



## Missouri S&T Magazine, December 1987

Miner Alumni Association

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### Recommended Citation

Miner Alumni Association, "Missouri S&T Magazine, December 1987" (1987). *Missouri S&T Magazine*. 367.

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**m s m**

**Alumnus**  
**University of Missouri-Rolla**



**Homecoming Issue**

**December, 1987**





John G. Bartel, '52



Jerry Berry, '49



Bob Berry, '72



Max Burgett, '54



Mary Klorer, '81



Curt Killinger, '73



Larry Parkinson, '64



Robert Seaman, '64



Gerald Stevenson, '59



Ron Tappmeyer, '47

**New Board Members**

**MSM-UMR Alumni Association  
Minutes of the Annual Meeting, Friday, Oct. 9, 1987**

Alumni President Art Baebler, '55, opened the fall meeting of the MSM-UMR Alumni Association on Friday, Oct. 9, in the Mark Twain Room of the University Center-East with a few introductory remarks addressed to the 35 board members and four staff members in attendance.

Armin Tucker, '40, chairman of the Nominating Committee gave the report of the 1987 election of directors. Directors reelected for three-year terms this fall were: Robert Seaman, '69, District 46-52 (zip code areas); Max Burgett, '54, District 62-62; Jerome 'Jerry' Berry, '49, District 63-65; Robert Berry, '72, District 63-65; Mary Klorer, '81, District 63-65; and Curt Killinger, '73, District 66-72 (was elected after having completed an appointed term). Directors John G. Bartel, '52, and Larry L. Parkinson, '64, were introduced as the two new directors-at-large, present at the meeting for the first time, and Dan Martin, '52, District 85-92, was announced as a new director, although he was unable to be present.

Art Baebler reported that the two retiring at-large directors had been appointed to posts as committee chairmen—Ron Tappmeyer, '47, is now chairman of the Awards Committee and Gerald Stevenson, '59, is now chairman of the Endowment Fund committee. Baebler expressed the gratitude of the association to Al Keevil, '43, retiring director of District 85-92, for his long and faithful service to the board.

Minutes of the April meeting were approved as mailed to the directors.

The first order of business was a transfer of property located at the southeast corner of 12th and State Streets, presently owned by the MSM-UMR Alumni Association, to the University. This property is part of the proposed location of the new Auditorium/Music/Alumni Building. The association bought the property for \$27,000 and it will transfer at current market value.

A motion was made and passed to confer the title of executive director of the MSM-UMR Alumni Association on Don Brackhahn. This title is in addition to his University title of executive director for alumni and constituent relations.

Bill Collins, '50, delivered the financial report. Total assets (trust accounts and members' equity) for the 1986-87 year were \$710,637. This represents a short fall of \$20,403 compared to the previous year. However, the short fall is compensated for by the actual value of the stocks held by the association which were listed at purchase price.

Art Baebler reported on Alumni Alliance activities. The Alliance was to hold a reception in Springfield on Nov. 16 and the annual legislative day is scheduled for March 2.

A report of the progress of the 1987 Annual Fund was made by Don Brackhahn in the absence of Jim Chaney, '48. It is estimated that the giving by alumni will be comparable to last year. A number of new marketing techniques are being used to give alumni opportunities to contribute to the annual fund and a challenge between St. Louis and Kansas City was started this year. It was announced that the Kansas City alumni had the greater per capita giving record in 1987. (A new traveling trophy was presented to James W. Stephens, '47, at the Awards Banquet, to reside this year with the Kansas City section.)

Joel Loveridge, '39, reported for the Athletic Committee. The athletic department received approximately \$61,000 in private support during the year, but needs more support due to the decrease in student fees because of a smaller enrollment. Financial aid is supplied to 150 men and women student athletes.

Committee Chairman Gerald Stevenson, '59, announced that the Endowment Fund Committee met during the summer and would meet again Sunday morning. The fund will not conflict with funds presently established, but will aid any anticipated short-fall in the Annual Fund and will be invested to assure the future of the association (only the investment income will be used).

Bob Berry, '72, chairman of the Faculty and Program Planning Committee, announced the winners of the four Student Adviser Awards (see page ). The committee is investigating some programs which might be provided for alumni such as travel services and rental car discounts. It is also continuing to develop the Alumni Speakers Bureau for use by students and faculty (See August issue of the Alumnus).

Dale McHenry, '81, presented the Student Financial Aid Committee report. The association currently provides financial aid for some 150 students at a cost of \$222,500. The committee recommended and a motion was made and passed to provide the same amount of assistance to students for the 1988-89 academic year.

**On The Cover**

Saturday of Homecoming—it rained in the Ozarks. The day before—Friday—had had magnificent weather for the Inaugural of McNutt Hall, the new Mineral Engineering Building (see October issue of the *Alumnus*). Fortunately it didn't rain all the time on Saturday and most returning alumni managed to have a very good time. The tennis tournament was cancelled and attendance at the football game was good during the first half. Accounts and photos of other Homecoming events may be found on pages 1 through 13.

**MSM ALUMNUS  
(USPS-323-500)**

Issued bi-monthly in the interest of the graduates and former students of the Missouri School of Mines and Metallurgy and the University of Missouri-Rolla. Entered as second class matter October 27, 1926, at Post Office at Rolla, Missouri 65401-9990, under the Act of March 3, 1897.



Thor Gjelsteen, '53, presented the Jackling Fund report. The Jackling accounts are healthy and 230 applications were received for participation in the Jackling Summer Institute. Of the 230 applicants, 112 were accepted and these students participated in one of the three one-week institute sessions held in June.

Chairman of the Alumni Sections Committee, John Toomey, '49, reported that new alumni sections had been established in Kansas City, Mo., Springfield, Mo., Springfield, Ill. and (accepted later during this meeting) in New Orleans, La. Section handbooks are now available from the alumni office for review by board members. They are being sent to all section presidents and those interested in establishing a section.

Jerry Bersett, '65, chairman of the Student Recruitment Committee, reported on the establishment of the Alumni Ambassadors Program (see August and October issues of *Alumnus*).

President Baebler explained that long-range plans for the association are under discussion by the executive committee and other committees such as the Endowment Fund Planning Committee. Since there are, as yet, no recommendations for action to be taken on the matter, the subject will appear on agendas of later meetings.

Curt Killinger, '73, presented a petition from the Greater New Orleans Section, MSM-UMR Alumni Association. A motion was made and passed to accept the petition and the section into the association.

Frank Mackaman, executive vice president of the association and vice chancellor for alumni/development, announced that he plans to retire in 1988. No definite date of retirement has been set. President Baebler will appoint a committee to take appropriate action upon the retirement.

On behalf of the association, President Baebler congratulated Chancellor Martin Jischke on his appointment as chairman of the National Aeronautical Advisory Committee and introduced the chancellor who addressed the board on the

following points.

- This fall's freshman class is 15 percent larger than last year and their ACT test scores indicate that quality is up.
- Enrollment is down this fall to 5,081 but it is expected to stabilize at 5,000 to 5,200 students.
- A new department chairman for civil engineering has been appointed—name to be announced at a later date.
- Dr. Wendell Ogrosky, new vice chancellor for student affairs and Dr. Gary Leininger, director of the Intelligent Industrial Systems Program joined the faculty in August.
- The projected cost of the Auditorium/Music/Alumni Building is \$9,800,000. \$2,825,000 of this amount was appropriated by the state in 1986 and 1987 with \$3,550,000 committed by the governor for 1988. Private donations already collected a total of \$2,100,000 and this leaves \$1,325,000 still to be raised from private sources.
- UMR is testing the feasibility of a corporate foundation and individual major gifts campaign.
- Frank Mackaman's retirement will leave "big shoes" to fill. "He is a loyal friend to all."
- Faculty salaries are comparable to those in other Big 8 schools, but 15 to 20 percent below those of Big 10 institutions.

President Baebler reminded the directors that the spring board meeting is scheduled for Saturday, April 23, and the next Homecoming board meeting will be Friday, Oct. 7.

He then adjourned the meeting and announced that directors would lunch with the platform party and special guests invited to the inaugural of McNutt Hall, the new mineral engineering building. The directors and their spouses also were encouraged to attend the inaugural ceremonies at 1:30 that afternoon.

## 1st Annual Silver and Gold (Miniature) Golf Tournament

The alumni golfers were undaunted by the downpour of rain at Homecoming as ten of them turned out at 7:00 a.m. on Saturday morning for the tee-off. Bud Mercier, golf coach and tournament co-sponsor, improvised and set up a miniature course in the pro shop

and the tournament was on.

Bob Oetting, '55, professor of aerospace engineering and John Brewer, professor emeritus, won the abbreviated tournament and Wilbern Moore, '37, and Max Burgett, '54,

placed second. One of the other alumni was heard to say, "wait until next year when we're on a real course."

Jim Trautman, student chairman of Homecoming activities, was pleased with the response and guaranteed that the second annual Alumni-Student

Golf Tournament would be held next year on Saturday, Oct. 8.

Other competitors in the tournament were: Robert A. Pohl, '42; Bunny and Tom Hermann, '50; and Shirley and Mark Beard, '42.



Professors Brewer (emeritus) and Oetting, '55, first place winners.



Wilbern Moore, '37, and Max Burgett, '54, placed second.



Shirley and Mark, '42, Beard from Hacienda Heights, Calif.



The intrepid stormy weather Miner golfers!





Jennifer Lynch, senior in mathematics from St. Charles, shown here with Chancellor Martin Jischke, was crowned UMR's Homecoming Queen during halftime ceremonies on Saturday. She was nominated by Sigma Phi Epsilon. (Rolla Daily News photo.)

## Homecoming 1987



Ollie, '35, and Bernadeen Kamper, Sun City, Ariz., celebrated their 50th wedding anniversary at the Friday Silver and Gold party.

It was a special Homecoming this year because the Friday activities included Inaugural ceremonies for the new V.H. McNutt Mineral Engineering Building. These activities (see October *Alumnus*) and the majority of the 12 academic seminars plus tours of the new building and the campus kept alumni busy on Friday. The glorious warm, sunny weather helped to make it a special day.

Friday night, however, during the opening party, the weather turned treacherous. Those who joined the students' torch-light parade to the annual bonfire got a little soggy. The rain continued through most of the next day. The tennis tournament was cancelled, the golf tournament was adjusted (see page 2) but the other activities—Chancellor's Breakfast, seminars and Fieldhouse Feed—were well attended. Not too many alumni were interested in campus tours on Saturday morning.

A good many alumni braved the weather to attend the football game between the Miners and the Central Missouri State Mules. The Mules scored first, and throughout the game the Miners trailed by a touchdown. The crowd dwindled after the first half and there weren't many fans left to watch the Miners almost make a comeback in the fourth quarter. The final score was 14-20 Mules.

The 1987 festivities ended with a packed house at the Awards Banquet on Saturday night (see pages 5, 6 and 10).

Some individual alumni were involved in academic activities on campus during the Homecoming festivities. Daniel Payton, '62, '64, '66, technical director—nuclear technology, at the U.S. Air Force Weapons Lab, Kirtland AFB, conducted a physics colloquium on Thursday, Oct. 8. Dr. Neal Granemann, '61, pathologist here in Rolla, received an award from the chemistry department, and Eugene Lang, '53, senior vice president—minerals, with Union Pacific Resources Co., represented all alumni at the V.H. McNutt Hall Inaugural Ceremony.

Despite Saturday's weather, everyone seemed to enjoy the fellowship and the weekend.



A major attraction at the Silver and Gold Party was the roast pig from Weber Meat Co., Freeburg, Mo.



Jim Stephens, '47, right, receives the Challenge Plaque for Kansas City from John Toomey, '49 (see minutes).



# Alumni Awards Banquet

## Alumni Achievement Awards

The Alumni Achievement Award is presented for outstanding service in areas of business or academic accomplishments and for civic affairs achievement.



**Frank W. Ries**

Frank W. Ries received his B.S. degree in electrical engineering from MSM in 1950, and the professional degree, electrical engineer, from UMR in 1983.

Frank began his career with Stone & Webster as a field engineer in 1951. He has supervised construction of electric power and chemical process projects throughout the United States and is a former director of construction for the firm. He was first named a vice president in 1974, senior vice president in 1977, was elected to the board of directors of the company in 1977 and became executive vice president with corporate responsibility for construction, project management and related activities in 1979. He was named president of the firm in 1982.

Frank was inducted into the Academy of Electrical Engineering at UMR in 1984. He is a registered professional engineer.



**Allen L. Rouse**

Allen Rouse received his B.S. degree in chemical engineering from MSM in 1959, and M.B.A. degree from the University of Missouri-Kansas City in 1965 and the professional degree, chemical engineer, from UMR in 1980.

Allen began his career as a project engineer with Farmland Industries. In 1966 he changed to Standard Oil of Ohio and eventually held the title vice president and general manager, Nitrogen Chemicals Division. He moved to Terra International Inc. in 1985 as executive vice president and chief operating officer, a position he holds at the present time.

Allen is a member of the board of directors of The Fertilizer Institute, the National Fertilizer Solutions Association and the United Way of Siouxland. He was a member of the UMR Development Council.



**Henry P. Whaley**

Henry Whaley received his B.S. in metallurgical engineering from MSM in 1948 and later earned a B.S. in civil engineering from North Carolina State University.

Henry joined Pickands Mather and Co. in 1948 as a research engineer and remained with the company until it was purchased by Cliffs Mining Co. earlier this year. He became operating manager of Pickands Mather's Erie Mining Co. in Minnesota, then general manager of Wabush Mines in Labrador and Quebec, Canada. Moving to the corporate management level, he was eventually in charge of all Pickands Mather operations worldwide, including iron and coal mining, engineering, exploration and sales with mines and properties in Canada, Australia, Africa and the U.S. On Jan. 1, 1987, he was named senior vice president—operations—with Cliffs Mining.



## Alumni Merit Award

The Alumni merit Award is presented for outstanding service to UMR or the Alumni Association or for recognition of some outstanding achievement in academic or business pursuits.



**Daniel S. Eppelsheimer**

Daniel Epplesheimer received both his B.S. degree in mining and metallurgy in 1932 and the Sc.D. in physical metallurgy in 1936, from Harvard University.

Dan began his career with Union Carbide, then served as head of the engineering experiment station and professor of industrial engineering for the University of New Hampshire from 1938 through 1946. After a short period of time as chief physical metallurgist and sales manager for Metal Hydrides Inc., he joined the MSM faculty in 1947 as professor of metallurgical engineering.

At MSM-UMR Dan taught classes in both nuclear and metallurgical engineering, was instrumental in obtaining Missouri's first nuclear reactor for the campus and served a year as department chairman. He retired from the faculty in 1978.



**Eugene A. Lang**

Eugene A. Lang received a B.S. degree in chemical engineering from MSM in 1953 and a professional degree, chemical engineer, from UMR in 1974. He also attended the program for management development at Harvard University.

Before joining the Natural Resources Division of Union Pacific as manager of operations in 1968, Gene worked for National Lead Co., Susquehanna Western and Terra Chemicals. In 1973 he was elected vice president of Union Pacific's mining subsidiary, and was later named senior vice president. He retained the title when Union Pacific merged its mining and oil and gas subsidiaries to form Union Pacific Resources Co.

Gene is a member of the board of directors of two banks, a member of the board or an officer of several national professional organizations and is active on the boards of several civic and cultural organizations in the Denver area.

## Alumni Service Award

The Alumni Service Award is presented to individuals for outstanding contributions to UMR through service to UMR or to the Alumni Association.

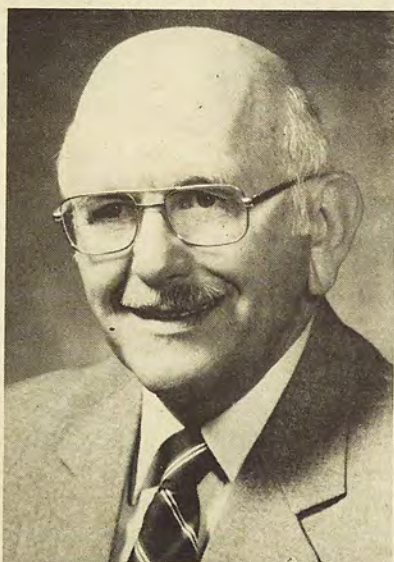


**Catherine G. Jenks**

Catherine G. Jenks (Mrs. William S. Jr.) attended Stephens College in Columbia majoring in music, then transferred to Washington University in St. Louis where she received a B.S. degree in education. She went on to Washington University's Medical School and received an M.S. degree in physiology.

A Rolla native, Kay began her career in physical and occupational therapy at an Army general hospital in Louisville, Ky., where she met her husband, Bill. After they were married in 1945, the couple returned to Rolla where Kay was busy with her family and with civic projects such as starting Rolla's Cerebral Palsy School.

In 1967 Kay joined the UMR faculty as an instructor in psychology and served in that capacity until 1979 when she moved to the chancellor's office and became director of university relations and affirmative action. She retired earlier this year after 20 years at UMR.



**Calvin M. Ochs**

Calvin M. Ochs received his B.S. degree in mechanical engineering from MSM in 1949.

Following graduation, Calvin joined Miles Laboratories in Granite City, Ill., and served the company as plant engineer/assistant director of engineering until 1972. He then became a division director of Memorial Hospital in Belleville, Ill., until joining Chesebrough Ponds as manager of engineering in 1973. He held that position until he retired earlier this year.

Calvin has been active in his profession, serving as president of the Missouri Society of Professional Engineers in 1985-86. On the national level, he has served as a committee chairman for the National Society of Professional Engineers (NSPE), a national director, and in 1986-87, was vice president of NSPE's Professional Engineering in Industry (PEI) Division. He also has been active in civic organizations in Jefferson City.



**Chris M. Wattenbarger**

Chris M. Wattenbarger received his B.S. in mechanical engineering from MSM in 1941.

Following graduation he served in the U.S. Army Corps of Engineers for more than four years and later spent 16 years with the Missouri Army National Guard attaining the rank of Lieutenant Colonel. After his discharge from the Army, Chris joined Frank Horton, Consulting Engineers, in Lamar, Mo., and seven years later became a partner in Finley Engineering in Lamar with Fred Finley, also Class of '41. Chris retired in 1984 after 31 years of service with the firm.

Chris was a member of both the Missouri and National Society of Professional Engineers, the Missouri Association of Registered Land Surveyors and civic organizations in Lamar. A loyal alumnus, he also served as a director of the MSM-UMR Alumni Association from 1978 to 1984.



# Honor Classes



Class of 1927 (First Row-left to right) H.D. "Twige" Thomas, Lois Thomas, Harry Bossert, Faye Moran, Ernest Moran.

Alumni are invited to order prints of any of the photographs. Cost is \$3 each for 8x10 prints or \$2.50 each for 5x7 prints. To order: be sure to include page number and as full a

description of the photo as possible and its placement on the page. Orders will be collected until Jan. 31 and prints should be returned to you during February.



Class of 1937 and before (First Row-left to right) Olive Kennedy, Twige Thomas '37, Lois Thomas, Katherine Zvanut, Frank Zvanut '32, Alice Mattei, Pete Mattei '37, Gertrude Romer, Elmer Romer '33, Jackie Haffner, Hap Haffner '35. (Second Row) - Dan Kennedy '26, Harry Bossert '27, Dorothy Pollak John Pollak '32, Emily Hesse, Alfred Hesse '33, Bob Riggs '32, Helen Riggs, Julia Mae Kassay, Andy Kassay '32. (Third Row) - Evelyn Moore, Wilbern T. Moore '37, Faye Moran, Ernest Moran '27, Hazel Schweickhardt, Virginia Sperling, Elmer Sperling '31, Frank Millard '37, Kay Millard, Dusty Rhoades '32, Auttie Thompson, Homer Thompson '32. (Fourth Row) - Harriet Knoll, Rudy Knoll '35, Anita Borgstede, George Borgstede '35, Audry Rayburn, G.R. Throgmorton '31, Maxine Sheppard, John Sheppard '37, Will Brewer '32, Ruth Hackman, Glen Hackman '37, Gill Montgomery '34, Bernadeen Kamper, Ollie Kamper '35. (Fifth Row) - Janet Barclay, Hugh Barclay '37, Frank Appleyard '37, Robert Elgin '37, Caroline Elgin, Tiny Regenhardt '30, Wilma Regenhardt, Jane Holman, Ozzie Holman '37, Bill Culbertson '37.



Class of 1942, (First row - left to right) Bob Pohl, Doris Pohl, Alleene Sandhaus, Elmer Sandhaus, Ralph Neubert, Rosemary Neubert, Sally Krueger, Harold Krueger, Fred Kisslinger, George Axmacher, Norma Axmacher, Dickie Hill. (Second Row) - Gilbert Shockley, Louise Shockley, Ida Mae Wolff, Leonard Wolff, Ed Myers, Lila Myers, Rhea Kisslinger, Jacqueline Morris, Charles Morris, Bill Hill. (Third Row) - Kenneth Schowalter, Betty Schowalter, Fred Olde, Florann Olde, Shirley Beard, Mark Beard, Evebell Dunham, Robert Dunham, Martha Ann Schuman, Austin E. Schuman, Ruth Muskopf, Oscar Muskopf. (Fourth Row) - Barbara Olsen, John Olsen, Bill Busch, Catherine Busch, Vernon McGhee, Vernon Loesing, Anthony Gonski.





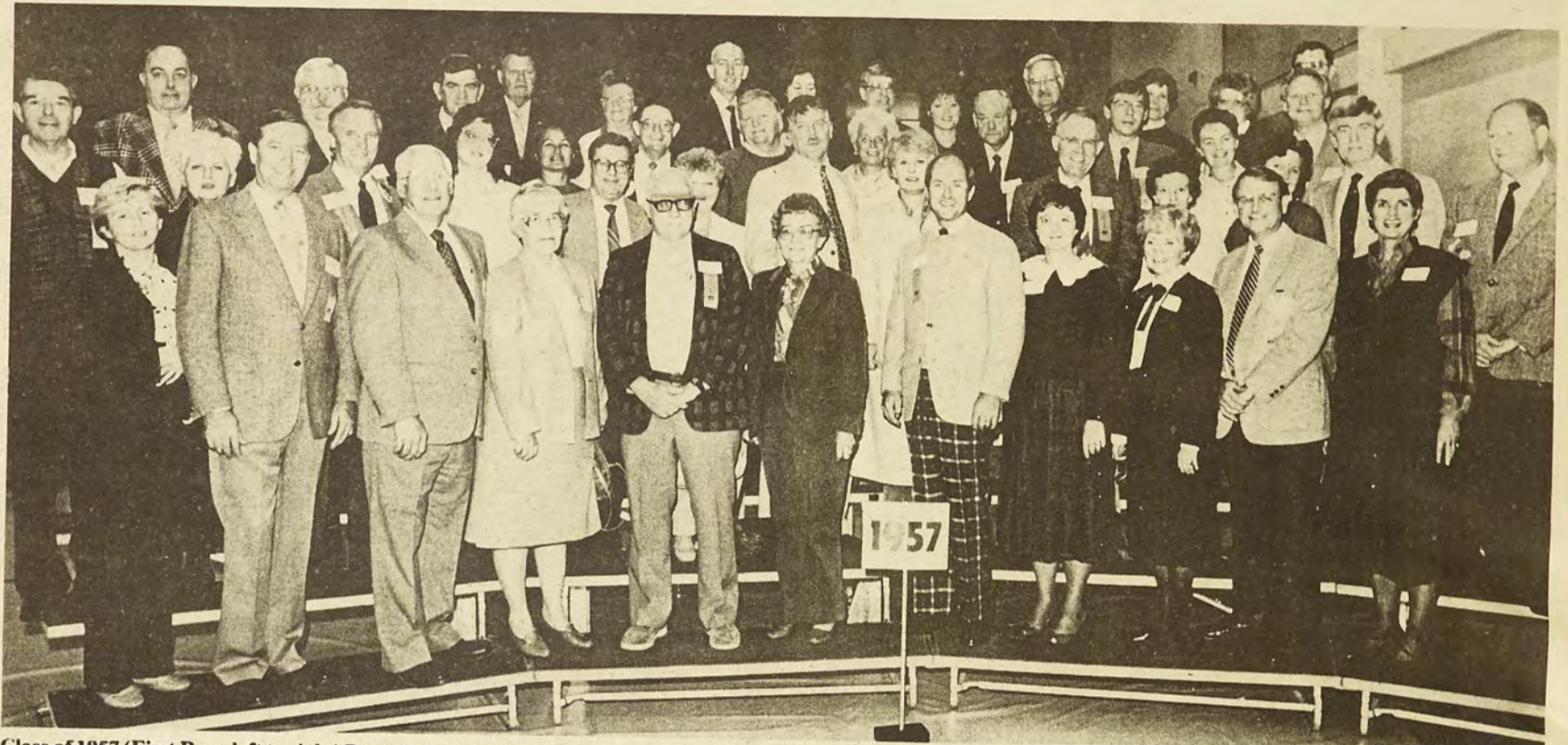
**Class of 1947 (First Row-left to right) Rod Schaefer, Helen Schaefer, Gloria Belew, Elmer Belew, Helen Dunham. (Second Row) - Jim Stephens, Maxine Stephens, Wilbur Tappmeyer, Marian Tappmeyer, Walter Liddell, Vivian Liddell, Roy Dunham. (Third Row) - Bill Howard, Sue Howard, Tom Ryan, Jean Ryan, Bill Ellerman, Jeanette Ellerman, Ron Tappmeyer, Mary Tappmeyer.**



**Class of 1952 (First Row-left to right) George Stevens, Nancy Stevens, Don Matson, Lou Matson, Tim Yager, Marion Yager, Jim Vance, Sally Vance, Melia Scheffler, Tom Scheffler, Delores Pulford, Bill Pulford, Mary Hrbacek, Emil Hrbacek. (Second Row) - Marge Schafer, Delores Ferns, Kipp Ferns, John Mulholland, Judy Mulholland, Byron Keil, Mary Ann Keil, Shirley Bauer, Dick Bauer, Peggy Schiene, Duke Schiene, Gay Tarr, Mike Tarr. (Third Row) - Leo M. Cardetti, Bob Schafer, Al Welke, Melba Duncan, Donald Duncan, Loucretia Barnard, Paul Barnard, Marilyn Lucido, Peter Lucido. (Fourth Row) - Earl Pape, Dolores Pape, John Bartel, Nancy Bartel, Betty Foster, Tom Foster, Frank Alvarado, Stella Alvarado, June Uthoff, Bob Uthoff.**



# Honor Classes



Class of 1957 (First Row-left to right) Bettie Tanquary, Cliff Tanquary, James Watwood, Dee Watwood, Jim Johnson, Vera Johnson, Philip Roush, Kay Roush, Marilyn Feaster, Roger Feaster, Jo Ann Mitchell. (Second Row) - Robert Anderson, Lora Anderson, Warren Geil, Diana Geil, Liston Neeley, Louise Neeley, Jack Howard, Kay Laird, Ted Jennings, Mary Jennings, Dorothy Henninger, Frank Henninger, Jim Mitchell. (Third Row) - John Jackson, Norman Johnson, Joe Noland, Norma Noland, Gene Clodfelter, Dale Rockwell, Maryann Rockwell, H.G. O'Neal, Don Ziebell, Ruth Frakes, Ron Frakes. (Fourth Row) - Jim Counce, Bayne Counce, Bob Fahrigh, Collette Fahrigh, Bernie Malson, Martha Malson, Dave Kick, Gayle Kick, Ann Rother, John Rother.



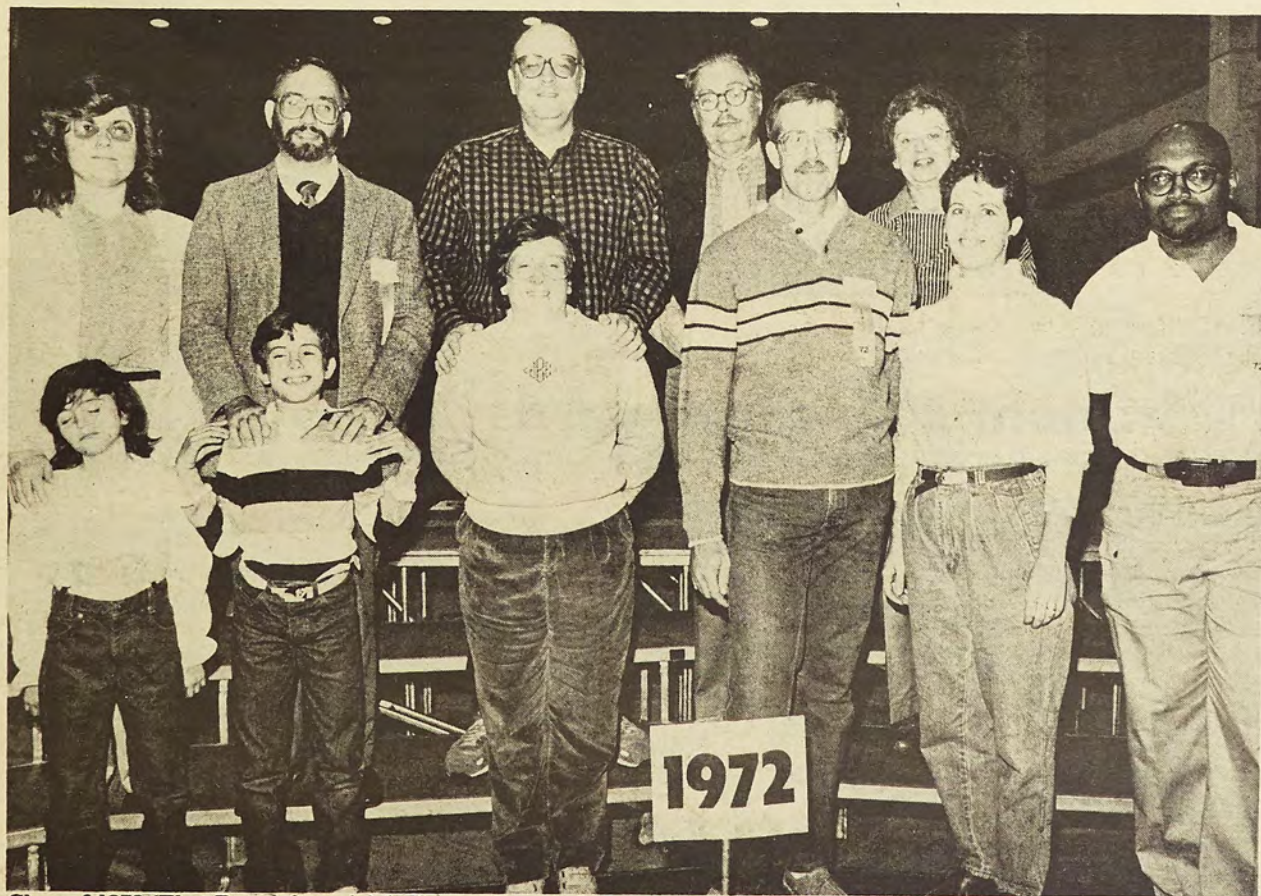
Class of 1962 (First Row-left to right) Carl Wilson, Elizabeth Wilson, Pat Duvall, Kay Duvall, Larry Green, Noah Sheppard, Jonie Dowell, Dave Markel, Linda Markel, David Brewer, Vern Theilmann. (Second Row) - Russ Kamper, Laura Kamper, Jane Payton, Dan Payton, Lana Van Doren, Tom Van Doren, Esther Sheppard, Allan Sheppard, Gary Buckrod, Patricia Buckrod, Lori Uhe, Gerald Uhe, John Doer, Robert Linville, George Bast, Memphord Smith. (Third Row) - Albert Bolon, Dick Hagni, Jim Joiner, Jean Joiner, Linda Rouse, Dick Rouse, Gary Havener, Judy Havener, Dean Culnan, Paul Stigall, Mary Stigall. (Fourth Row) - Jan Martin, Harvey Martin, Gene Rand, Judy Rand, Jeannie Wagnor, Bob Hyberger, Kathy Tidmore, Bob Tidmore, Mike Reyburn.



# Honor Classes



Class of 1967 (First Row-left to right) Howard Stine, Mike Welsh, Henry Hachmuth, Ed Kettenbrink, Gail Davidge Kettenbrink, Gary Fouts, Barbara Fouts. (Second Row) - Jamie Anderson, Bill Anderson, Bill Sykes, Yavuz Guvenir, Terry Perkins, Alan Schloman, Dick Burkhalter, Charlie McGrady.



Class of 1972 (First Row-left to right) Theresa Susanj, Jeffrey Susanj, Jane Black, Bill Evers, Paula Evers, Greg McClain. (Second Row) - Connie Susanj, Jeff Susanj, Bill Black, Bob Doerr, Vivian Doerr. (Far right inset) - Zeb Nash, left, and Gary Phillips (they were late).





## Honor Classes



Class of 1977 (First Row-left to right) Karen Daily Clifford, Mark Call, Nicole Talbot, Veronica Hahn, L.G. Loos, Debra Kersing Brzuchalski, Sandra Marx, Michael Marx. (Second Row) - Tim Clifford, Don Short, Phil Boegner, Brent Barton, Ken Ruff, Dale Brzuchalski, Daniel Kovarik. (Third Row) - Art Amoroso, Mike Allen.



Class of 1982 (First Row-left to right) Lissan Ko, (Second Row) - Lily Ko, Win Song Ko, Walter Ko.

## Amoco Foundation Outstanding Teaching Award

Established in 1966, this award is to recognize excellence in the teaching of undergraduates by senior staff members.

Jack Ridley received a B.S. degree in history from Southwestern Oklahoma State University in 1962, a master's degree in history from the University of South Dakota in 1963 and a Ph.D. in the same field from the University of Oklahoma in 1970.

Since joining UMR in 1969, he has taught courses ranging from comparative governments to the history of France. His research interests include 19th century Europe and the history of engineering education. He is co-author, with Lawrence Christensen, UMR professor and chairman of the history department, of *UM-Rolla: A History of MSM-UMR*, and is the author of both *Completing the Circuit: A Century of Electrical Education at MSM-UMR* and *Spanning the Years: Civil Engineering the Rolla Way*.

Jack has received 15 "Outstanding Teacher" awards at UM-Rolla, and this is his second Amoco Teaching Award (the first was in 1984). He is also the recipient of one of this year's three Burlington Northern Foundation Faculty Achievement Awards presented to University of Missouri faculty.



## Student Advisor Awards

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



Accepting the \$500 Alumni Student Adviser Awards were: left to right, Mrs. C. Dale Elefrits (accepting for her husband, associate professor of geological engineering and acting director of UMR's Freshman Engineering Program, who was speaking at a conference); and other winners, Robert B. Oetting, professor of mechanical and aerospace engineering; John L. Watson, associate professor of metallurgical engineering; and Edward E. Hornsey, associate professor of engineering mechanics.

According to Robert T. Berry, '72, director of project development for Burns & McDonnell, Kansas City, and chairman of the MSM-UMR Alumni Association Faculty and Program Planning Committee, the awards recognize efforts made by the advisers in assisting students with academic and career decisions.





Gary, '63, and Janet Schumacher, St. Louis. Gerry Bersett, '65, Florissant, Mo.



Jim Vance, '52, Spencer, Ind. Marion Yager, Rhinebeck, N.Y. Jo Holmes, Greenwich, Conn.



"Pokey" Moran, '27, Miami, Okla., Edward "Tiny" Regenhardt, '30, El Cajon, Calif. Elmer Sperling, '31, Webster Groves, Mo.



Ida Mae and Leonard Wolff, '42, Columbia, Mo. Bill Busch, '42, Strongsville, Ohio.



John Toomey, '49, Alexandria, Va. Dale McHenry, '81, Acworth, Ga. Kelly Toomey.



Rosemary Neubert, Waco, Texas. Charles Morris, '42, Des Peres, Mo. Jacqueline Morris.



Nancy and John Bartel, '52, Hermann, Mo. Patty Jischke, UMR.



Rhea Kisslinger, Rolla. Jean and Carl Zerweck, '50, Creve Coeur, Mo. Jack Painter, '50, Rolla.



Claudette and Larry Parkinson, '64, Adrian, Mich.



Calvin Ochs, '49, Jefferson City. Jim Anderson, '55, Springfield, Mo.





Dick, '48, and Adele Boaz, Hot Springs Village, Ark. Mary Tappmeyer, Sugar Land, Texas. Betty Chaney, Houston, Texas.



Bill Collins, '50, Rolla. Frank, '50, and Janet Ries, Framingham, Mass. Frances Collins.



Barbara and John Olsen, '42, St. Petersburg, Fla. Cay and Bob Brackbill, '42, Dallas, Texas.



Jackie and Lou Greco, '50, St. Louis. Louis, '77, and Peg Greco, St. Louis. Dominic Greco, '44, St. Louis.



Terry McGrath, Frank Mackaman, alumni/development. Jim McGrath, '50, St. Louis. Bob Klorer, '44, Ferguson, Mo. Joe Strubert, '49, St. Louis.



Tom, '58, '65, and Jane O'Keefe, Rolla. Kathleen and Matt, '66, Coco, St. Louis.



Jim, '50, and Edna Scott, Rolla.



Joel Loverridge, '39, St. Louis. John Smith, '51, Rolla.



Dan, '26, and Olive Kennedy, Rolla.



Chris Wagner, Sunset Hills, Mo. Joe Mooney, '39, University City, Mo.



Howard Eloe, alumni/development staff. John Olsen, '42, St. Petersburg, Fla.



Dale McHenry, '31, Acworth, Ga. Steve Nusbaum, undergraduate.





John Livingston, '39, Elm Grove, La. Joseph Fitzpatrick, '48, Leawood, Kan.



Henry, '48, and Patricia Whaley, Broadview Heights, Ohio.



Norm Tucker, '40, McLean, Va. Armin Tucker, '40, Rolla.



Hap, '35, and Jackie Haffner, Sun City, Ariz.



Mary Ann Keil. Bob, '52, and Marge Schafer, Dallas, Texas. Byron Keil, '52, Fort Worth, Texas.



Kathleen Coco, St. Louis. Jane O'Keefe, Rolla. Margaret Mooney, St. Louis.



Barbara and Alan Schloman, '67, Lee's Summit, Mo. Gail Davidge Kettinbrink, '67, and Ed Kettinbrink, '67, Abilene, Texas.



Jack Guth, '50, Strasburg, Va. Joe, '49, and Janet Reiss, St. Louis. Adele and Dick Boaz, '48, Hot Springs Village, Ark.



Joy and Everett Brown. Lu Bolon, '59, Lee's Summit, Mo.



Bob, '32, and Helen Riggs, Green Valley, Ariz. William Brewer, '32, Cincinnati, Ohio.



Maurita Stueck. Joe Senne, '51, Rolla. Neil Stueck, '43, Webster Groves, Mo.



Bob Sfredo, '58, Jefferson City. Edward Hornsey, '59, '61, '67, UMR



## Looking Backward: MSM-UMR Folklore

by Dr. Michael Patrick, Professor of English at UMR

Folklore perhaps is best defined as peoplelore because we all have our lore no matter what culture we live in. Our customs, rituals, expressions, tales, and superstitions help us understand and be a part of our social groups.

Certainly folklore about student-professor or town-gown relationships has existed since the beginnings of universities in medieval Europe. The *Faustbook* deals to some extent with relationship of Dr. Faustus, the professor, with his students and the problems of pursuing knowledge too far. Chaucer in *The Canterbury Tales* presents students who have problems dealing with merchants. But since their revenge is obscene I always tell my students, whatever you do, don't read "The Reeve's Tale." For some reason that is the very tale they have read and are ready to discuss at the next class meeting.

Folklore continues to abound on American campuses, and UMR is such a unique place with long traditions that it has customs, rituals, and tales all its own.

For the visitor to most campuses the graffiti on the restroom walls usually are tired cliches. But according to many UMR students, complex mathematical formulas adorn restroom walls here. The graffiti in the tunnels under highway 63 identify the two tunnels as forming—with the Stonehenge replica—the Rolla triangle where students disappear at what is affectionately called Black Hole University.

Another story involves the ABET accreditation team member who praised the progress that humanities had made on campus by observing that when he first came to UMR ten years ago the students misspelled their favorite four letter words on the desk tops. Now two out of three of the words are correctly spelled.

But the uniqueness of UMR folklore probably comes more from its traditions that have been modified to suit each generation of students. The days of the men's smoker, the dry shave, the molasses shampoo, the freshman fight and the blanket toss have died out, but initiation rituals still continue. Some say that the hazing of freshman stopped with the returning World War II veterans who felt they had been hazed enough by the Japanese, Germans, and drill instructors. Others say the hazing continued after the war but shifted from freshmen to the initiation of new members into living groups.

UMR's fraternities, sororities, dormitories and eating clubs all have their initiation rituals. Greek groups have 'midnight kitchen' for pledges, who work from midnight on cleaning. The Frisco Pond is still used for some rites of baptism. Some groups have study halls for their initiates. One fraternity supposedly has study hall from 7:00 to 7:10 every night. Rumors circulate that some pledges are sent to advanced lectures to take notes for the actives.

Thomas Jefferson Residence Hall has the initiation rite of 'pennying' people in their rooms to show that they belong. That is, pennies are inserted in the door-jam so the student can't get in his or her room. At TJ, seniors have precedence in regard to elevator space. Also seniors, or upperclass students, can dictate what shows will be on the television sets in the lounges. Older students strike fear in the hearts of freshmen by warning them about the mystery meat served at the cafeteria or tell stories about flies vomiting outside the diningrooms of certain living groups.

UMR students always have found unusual places to live. Because of economics, some returning World War II veterans were reported to live in the woods in tents or caves. More recently, there have been reports of students taking up permanent residence in Wilson Library or under the stands at the Bullman multi-purpose building. My favorite story of this nature goes back to the time when the department of humanities offices were on the top floor of the Rolla Building.



Snapshots from the alumni files depict a gauntlet line and a dry shave incident in the past—the 1920s or 30s (snapshots not dated.)

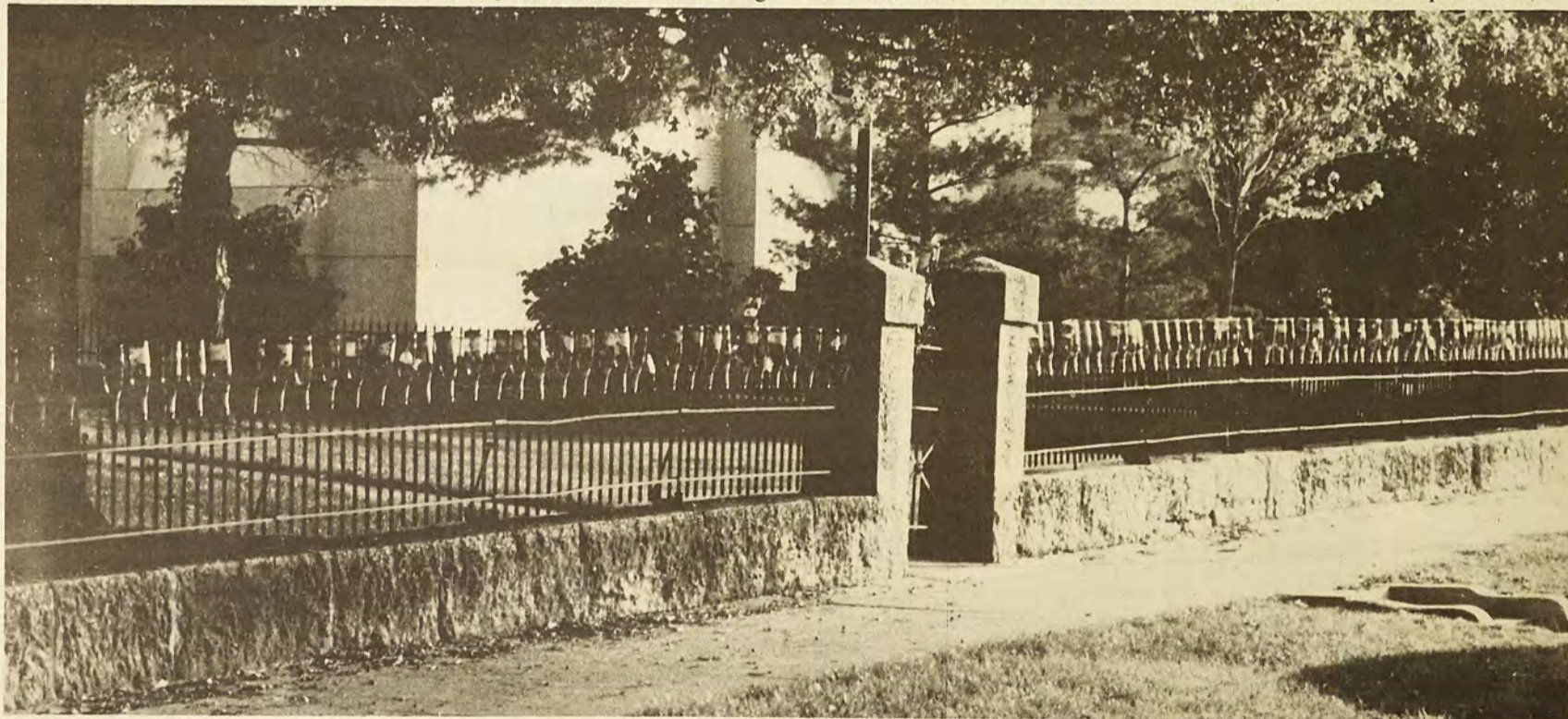
The attic of the building had bats, and the rumor was that at night there was a student who lurked on the stairs biting people on the neck.

The favorite stories for most graduates of UMR probably are those involving the eccentricities of the faculty. At any alumni meeting, Sam Lloyd and Tom Beveridge stories are told, and these always reflect the high regard the students held not only for those two faculty members, but for the UMR faculty in general.

There is the story about the professor who met a student on the quadrangle half-way between the University Center and the Library. After they had talked a few minutes, the professor said, "Which way was I going when you met me?" The student replies, "Toward the Library." The professor exclaimed, "Good! I've had lunch." Other stories about the faculty involve the class being so dull the professor fell asleep before the students; the mathematics professor who wrote equations on the board followed by an assistant erasing them as fast as he wrote them; or, until the language seminar was instituted for teaching assistants, students would, say, take mathematics and learn a foreign language at the same time.

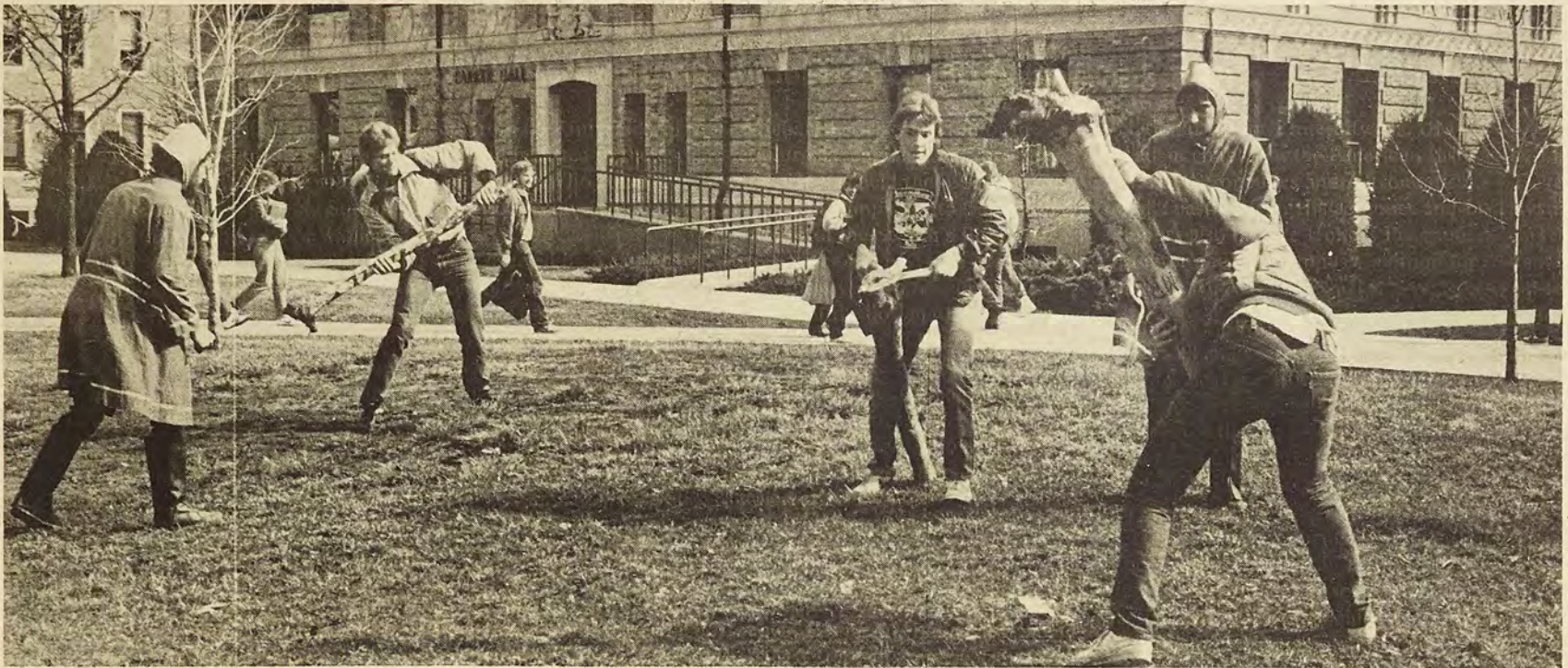
On a grade-conscious campus grading stories abound. Freshmen are warned about breaking the curve and told about professors who grade by throwing the papers down a flight of stairs. The heaviest landing at the bottom gets an A. Or the new technology of computer grading sometimes is reported to get out of hand and the F students receive A's and the A students receive F's. One story involves how much UMR professors want to please their students. After class a student, unhappy with his grade, discussed it with the professor who changed the score on the test paper. The professor asked, "Are you happy with your grade now?" The student answered, "Yes, are you going to record the change in the grade book?" "No, I was happy with it before. I just want you to be happy," the professor said.

Students love to tell stories about their fellow students almost as much as they love to tell stories about the faculty. Legendary figures on the UMR campus involve such students as "Hard-hat," who because his hat had saved him when he worked in industry, wore it on campus all four years he was at UMR; "The Genius," who was so intelligent that he would sleep through every class, but wake up to answer any question the professor asked; "The Professional Student," who liked UMR so much that he never left; and the "The Spelunkers,"



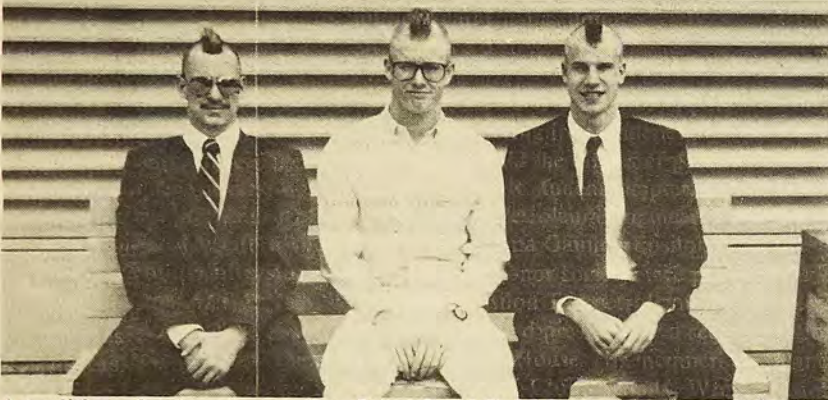
The end of a tradition. For a number of years, Sigma Nus have hosted a champagne tea for alumni during Homecoming. When Homecoming was over, they deposited the empty bottles on the fence around the Chancellor's Residence—leaving a complimentary full bottle for the Chancellor. Because of new national regulations, this tradition may have ended this year.





St. Pat board members order freshmen to kill snakes (rubber variety) during the week before the festivities. All freshmen are supposed to carry shillelaghs on campus.

who brought chloroformed bats from the caves they explored and released them at the Ritz Theatre during the movie. Other students tell about the mathematics major who flunked out because the batteries in his calculator always went dead during a test. The favorite T-shirt for generations of UMR students has the message, "Sex kills. Come to UMR and live forever."



A tradition of swimmers—seniors Steve Goodell, M.E., Joe Lundeen, ChE., and Kurt Koehling, ChE., sported mohawk haircuts last year before competing at nationals in California. Miners finished 16th in the NCAA II meet.

As a group, students have always looked forward to the spring rite of St. Patrick's. All cultures have spring celebration rites, but the St. Patrick's weekend in Rolla has become legendary throughout the world. Looking back through the photographs found in the Rollamo before World War II, the holiday seemed to have a formality about it that it now lacks. But even in the old days, St. Patrick arrived in town with a flourish, riding on a railroad handcar. He still does, although few students are aware of this tradition. When he first rode in the parade on a manure spreader, most students, who were from farm backgrounds, knew what it was. Now the implement has to be explained to many students. For students before the war, it was a time for tuxedos and formal gowns. Now formal, and continuing all-occasion dress for the weekend, is the green sweatshirt. Originally, the student knights were immersed in a vat or trench filled with



In the annual St. Pat cudgel carry, one person has to carry the hand-carved, decorated tree 100 feet with no assistance in order to win. A hundred feet can be a long way!

drillers mud, emphasizing the mining origin of UMR/MSM. Today, the liquid, nicknamed Alice, is a secret formula, but the initiates are told of all sorts of items that are mixed in, float on the top, or rest on the bottom. Indeed, Alice is as foul-smelling as witch's brew, and the whole ritual takes on all the characteristics of a primitive society, complete with noisy incantations.

The Irish heritage of St. Patrick's weekend causes liquid imbibing to reach great proportions according to most students. However, considering the dampness of the ground at most activities, more refreshments seem to be spilled than drunk.

The reason that the St. Patrick's celebration is such a carnival is that it represents everything that UMR is not. For one weekend a year, students don't "pull all-nighters" studying; don't spend the weekend writing lab reports, running computer programs, solving problems, or writing papers. On that weekend students are freed from the studies much as ancient peasants had one holiday a year free from their masters.

From the St. Patrick's weekend and from the folklore of UMR comes a sense of community. New students enter at UMR an environment as alien to them as any foreign country. The language of the campus is foreign with talk of majors, minors, miners, free electives, GPA's, college or school requirements, required electives, cuts, bombing out, diffy Q and blow-off courses.

To become a part of this alien environment, the new student must learn new terminology, new rituals, new customs and hear stories about legendary students and eccentric professors.

When they become upperclassmen, they embellish these stories and modify the rituals and customs to initiate even newer students into the university community. Throughout their college careers, just as any primitive tribe, they practice rituals and believe in superstitions.

The rituals of staying up all night to study for exams flies in the face of reason because no one does well when he or she is tired. The superstition of not taking a bath or changing clothes during finals week is irrational, but still practiced.

But once they have participated in these rituals, customs and superstitions, they are forever members of the tribe—even after graduation—because they are forever UMR-MSM Miners known throughout the world as dependable, hard-working, intelligent people who know when to work and when to have a good time.



In the oldest St. Pat tradition—St. Pat and his court arrive in Rolla riding on a railroad handcar. This handcar was donated to UMR by Burlington Northern Railway.



### UMR Listed in *U.S. News and World Report* Survey

A listing of "Where the top grad students come from" that appeared in *U.S. News & World Report* included UMR-Rolla as one of the undergraduate institutions from which the best graduate students in engineering are drawn.

The listing, which appeared in the Nov. 2, 1987, issue of the magazine, was part of a special report on "America's Best Professional Schools." The report was based on a nationwide survey of the deans of medical colleges, graduate schools of business, graduate

engineering schools and law schools.

"We are very pleased to have been mentioned in this report," said UMR Chancellor Martin C. Jischke. "Our inclusion is a tribute to the quality of our students, our faculty, and the educational experience available at UMR."

Other undergraduate programs mentioned in the listing for engineering were those at the Massachusetts Institute of Technology; University of Illinois, Urbana-Champaign; Stanford University; the Georgia Institute of Technology, Purdue University; the

University of California, Berkeley; Cornell University; Rensselaer Polytechnic Institute; University of Michigan, Ann Arbor; Virginia Polytechnic Institute; Rose-Hulman Institute of Technology; Carnegie Mellon University; Princeton University; Harvey Mudd College; Iowa State University; Duke University; North Carolina State University; Ohio State University; Oklahoma State University; Clarkson University; the Pennsylvania State University; and the University of Texas, Austin.



### UMR Admissions Ambassadors

The first-ever UMR Admissions Ambassador workshop was held on campus during Homecoming weekend. More than 30 ambassadors and spouses attended to find out how they could be of service to prospective students as well as UMR. The workshop succeeded in its attempt to bring together many volunteers to exchange ideas and ask questions. Everyone seemed excited to be involved with new student recruitment. We hope to make this an annual event.

We are fortunate to have volunteers such as the following: Harlan, '56, and Marcia Kebel; Bob Saxer, '61; Cheryl, '71, and Jim, '72, Ibarra; Leslie Sonnabend, '83; Joe, '81, and Lea Anne, '81, Howell; Steve Schade, '74; Roscoe McWilliams, '72; Dave Kick, '57; Gene Larson, '51; Jimmy Massey, '69, and Doug Hughs, '63. All of these alumni attended their hometown college fairs as UMR representatives. We would not have had representation at 15 out-of-state fairs without the help of these volunteers!

On Oct. 20, the Sikeston (Mo.) Chancellor's Banquet was held at UMR alumnus Bob Patterson's, '54, banquet facility, Murray Place. Bob and Martha also donated a meal for each of 30 prospective students. Faculty, staff, alumni, students and parents were present to meet and talk with Chancellor Martin C. Jischke. Other Admissions Ambassadors in attendance included Jerry Buchheit, '78, Roger Ellis, '71, and Ron Yersak, former president of the UMR Parents' Association.

Our small group is growing! To date, more than 70 UMR alumni and parents are participating in the Admissions Ambassadors program. Many are alumni who live outside Missouri—we now have ambassadors in 11 states. We welcome suggestions to improve the program. Please don't hesitate to make suggestions or requests. We are always looking for good volunteers, so please ask your interested friends to contact Kim Hofstetter, Alumni-Admissions Coordinator, 101 Harris Hall, UMR, Rolla, MO 65401-0249 (phone: 314-341-4904).



Members of the Alumni Afro-American Student Recruitment and Retention Committee at UMR-Rolla met with UMR Chancellor Martin C. Jischke (front row, third from left) during the group's recent fall meeting on campus. Members of the committee are: (front row, left to right) Gregory D. McClain, '70, manager, Quality Assurance, Deere & Co., Waterloo, Iowa; Sheila Lofton-Williams, '85, food service team manager, Folger Coffee, Kansas City, Mo.; Chancellor Jischke; Lawrence George, research chemist, Rolla Research Center, U.S. Bureau of Mines, Rolla; Robert Henry, '79, senior process engineer, Monsanto, St. Louis; Louis Smith, '66, vice president, production operations, Allied-Signal Inc., Bendix, Arlington, Va.; and Wayne C. Harvey, '69, attorney, Harvey & Hughes, St. Louis; (back row, left to right), Larry Goodwin, '71, district staff manager, Southwestern Bell Corp., St. Louis; Robert R. Morrison, '71, senior general manager, DISTRON, Chicago Distribution Center, Naperville, Ill.; Zebulun Nash, '72, paramins manufacturing head, EXXON, Missouri City, Texas; Gregory Skannal, '85, environmental protection engineer, U.S. Environmental Protection Agency, Kansas City, Mo.; and Roscoe R. McWilliams, '85, Jackson, Tenn. Not pictured are: Eugene D. Jackson, '67, president, National Black Network, Unity Broadcasting, New York, N.Y.; Natalie Taylor Jackson, '81, systems engineer, IBM, Kansas City, Mo.; Charles McField, '80, '82, engineer, Allied-Signal Inc., Bendix, Kansas City, Mo.; David B. Price, '68, vice president and general manager, Specialty Chemicals Division, Monsanto, St. Louis, Mo.; Melanie Tindley, '85, project engineer, Proctor & Gamble, Cape Girardeau; and Joseph Williams Jr. (student representative to the committee), UMR junior in mechanical engineering, St. Louis. The committee seeks ways to enhance educational opportunities for Afro-American students at UMR and to assist the campus in recruitment, retention and improvement of campus life for these students.



# UMR Assessment Program Needs Alumni Response!

The role of assessment at UMR, and the important contribution alumni can make in the evaluation process will be discussed. UMR needs Alumni to complete and return the questionnaire below.

UMR continues to graduate outstanding students. On the GRE (Graduate Record Exam) last year, UMR students achieved above the national average in all three areas: verbal, analytical, and quantitative. The analytical and quantitative scores have remained far above the national mean for the past several years.

Outstanding schools such as UMR share common attributes with other excellent organizations. Tom Peters in *In Search of Excellence* states that high-achieving organizations have a bias for action, growth and change. UMR's new Assessment Program is an indicator of this type of action, growth and positive change.

## Assessment at UMR

### The Past

The spirit of assessment has been prevalent on campus for decades. Engineering programs have a tradition of being accredited. Computer science has recently become one of the first 22 fully accredited programs in the country. Student attitude surveys have been administered on campus for several years. In addition, employers and alumni have provided informal feedback at various intervals.

### The Present

Assessment is the systematic evaluation of the teaching goals and environment in relation to the achieved learning outcomes. The goals of an assessment plan relate directly to the University's mission statement. The general purpose of assessment is to strengthen and maximize the degree of match between the ideal goal and the actual achievement.

### The Assessment Plan

The Assessment Plan includes research categorized in three areas: academic assessment, non-academic student feedback and institutional information.

The academic portion of the assessment plan addresses general education goals such as critical thinking, coherent writing and effective speaking. The academic plan also focuses on mastery of the major field of concentration. Departments can observe the depth and breadth of student knowledge, the integration

of various areas, and the transfer of knowledge to problem applications. To measure the achievement of these goals, standardized tests will be administered during the spring semester.

Non-academic assessment involves the use of questionnaires to acquire information about student attitudes, opinions and needs. The degree of student satisfaction with advising, the need for a program dealing with handling stress, and the extent to which the library meets research needs, are examples of non-academic measurements.

Institutional assessment refers to areas which include the whole campus rather than individual departments. An example includes monitoring the effectiveness of graduate teaching assistants, and related programs designed to develop communication and teaching skills. Another example involves a recently administered survey of faculty perceptions of campus characteristics; campus values such as improvement of society and undergraduate learning were measured.

### A Team Effort

A lesson learned from successful assessment programs is that a total team effort is essential. Peter Ewell (Director of the Kellogg Student Outcomes Project) firmly asserts that no single office, or individual, no matter how well equipped, can develop such a program alone. All constituencies on campus must actively support the assessment program if it is to be effective.

Alumni are an important part of the assessment team. Alumni have the maturity and objectivity to reflect upon their experiences at UMR. By distancing themselves from campus, they reduce the subjectivity affecting current students. In addition, alumni are intimately in touch with current demands of society on those within their profession. Where do the strengths and gaps in the education foundation appear? Alumni are in an ideal position to offer these valuable insights and perceptions.

Alumni can be active members of the assessment effort by responding to the questionnaire below, and returning it as soon as possible before Jan. 31, 1988.

Please send this survey to: Dr. Ellen Leininger  
Director of Institutional Assessment  
204 Parker Hall  
Rolla, Missouri 65401

## ALUMNI SURVEY 1987

UMR NEEDS YOUR HELP. PLEASE SHARE YOUR UNDERGRADUATE EXPERIENCES AND PERCEPTIONS TO AID PLANNING STRATEGIES.  
Directions: Blacken the correct circle to indicate your response. Please use pencil or ball point pen.

1. How would you rate each of the following? (Exc = Excellent)

Exc	Good	Fair	Poor	
0	0	0	0	Quality of teaching
0	0	0	0	Fairness of grading in the major
0	0	0	0	Opportunities for interaction with faculty in the major area
0	0	0	0	Frequency of intellectually stimulating ideas in the classroom
0	0	0	0	Ability of faculty to perceive areas student find difficult
0	0	0	0	Ability of faculty to explain well difficult areas/problems
0	0	0	0	Your academic experience at UMR
0	0	0	0	Your social experience at UMR
0	0	0	0	Your overall experience at UMR

3. To what extent do you feel the following skills need to be given more emphasis in today's undergraduate curriculum? (Emph = Emphasis)

Much More Emph	Some More	Less No Chang	Emph Needed	
0	0	0	0	Working cooperatively with groups
0	0	0	0	Leading/guiding groups to project completion
0	0	0	0	Planning, organizing and carrying out complex projects
0	0	0	0	Understanding and solving complex problems
0	0	0	0	Developing writing skills
0	0	0	0	Developing critical reading skills

5. What year did you graduate from the B.S./B.A. Program? \_\_\_\_\_

Your Employer \_\_\_\_\_

Your Position/Title \_\_\_\_\_

Your Undergraduate Major \_\_\_\_\_

2. General Education requirements: How well do you feel your general education courses prepared you to . . .  
(Ext = Extremely Well)

Ext Well	More Than Adeq	Less Than Adeq	Very Poorly	
0	0	0	0	Communicate effectively in writing
0	0	0	0	Understand important issues confronting society
0	0	0	0	Understand different types of people
0	0	0	0	Understand our culture and history
0	0	0	0	Appreciate the fine arts and humanities
0	0	0	0	Continue learning throughout life
0	0	0	0	Understand major scientific and technological influences on society
0	0	0	0	Understand the importance of international affairs and global interdependency

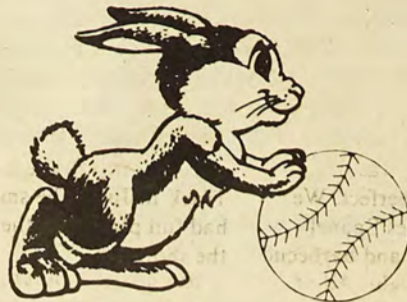
4. Major field requirements: How well do you think your major field course work prepared you . . .  
(Ext = Extremely well)

Ext Well	More Than Adeq	Less Than Adeq	Very Poorly	
0	0	0	0	For your professional career
0	0	0	0	For continuing your education
0	0	0	0	For obtaining a professional license or certification
0	0	0	0	To work independently
0	0	0	0	To feel confident about your knowledge base

6. Additional Comments or recommendations: \_\_\_\_\_



# It Is NOT A



A baseball is a baseball is a baseball to a team of UMR professors. In fact, Drs. Terry Lehnhoff and Lee Bain estimate they have pitched more baseballs than many major league pitchers—but they use a cannon instead of their arms.

In an era when starting major league pitchers sometimes throw no more than 120 pitches a game, Lehnhoff and Bain have made as many as several thousand in one day.

"I remember a day Lee and I pitched several hundred balls a total of 20,000 times at speeds approaching 100 miles per hour into a steel barrel," Lehnhoff says. "We were trying to determine the endurance characteristics of certain brands of little league baseballs."

These unlikely battery mates—Lehnhoff is a mechanical engineer and Bain is a mathematician and statistician—have been testing baseballs for the National and American Leagues and several baseball manufacturers for the past 13 years.

In fact, they, along with Dr. V.A. Samaranayake, UMR assistant professor of mathematics and statistics, were the independent testers who, during two weeks this past summer, conducted tests on the 1987 major-league baseballs which many fans had suspected of being "juiced" because of the increased number of home runs hit during the baseball season.

"We submitted several dozen 1985 and 1987 baseballs to a coefficient of restitution test," Lehnhoff says. "The test involved firing the baseballs from a pitching machine or an air cannon into a backboard made of ash, the same wood used to make baseball bats, at speeds of 85 feet per second (55 mph).

"We used a photo cell to measure the velocity of the ball as it approached the backboard and again after it rebounded from it," Lehnhoff says. "This type of test is a good measure of the response of a baseball to a long hit, say on the order of a home run.

"Except for a minimal difference attributed to the storage and age of the older balls, the test results indicated that the 1987 baseballs are totally within the range of major-league standards," Lehnhoff adds.

The statistical analysis of the data collected by the two is done by Bain and Samaranayake.

"Once the data is gathered, we use statistical procedures to determine how closely the baseballs adhere to the major leagues' specifications," Bain says.

Lehnhoff and Bain also have conducted compression tests on baseballs for the major leagues to help them compare various brands during contract negotiations which determine the official major league baseball supplier.

Lehnhoff explained that at least every 10 years the leagues have baseballs tested against a rigid set of specifications.

"Under the supervision of the office of the league presidents, we measured the diameter, circumference, weight and other more detailed characteristics of baseballs in 1975 and again in 1985," Lehnhoff says, "and contracts for the manufacture of baseballs were awarded by the American and National Leagues based partially on our results."

Lehnhoff, who teaches mechanical engineering design classes at UMR, said that his students benefit from his excursion into the world of sports.

"Some of the problems that they had to solve this fall used portions of the data we gathered this summer," Lehnhoff says.

Both men are baseball fans and enjoy the work they do for the major leagues and they welcome the chance to contribute to the pastime they love.

"We chuckle every time a baseball announcer or writer makes a reference to the 'rabbit ball' being used this year," Lehnhoff says.

## ST. PAT'S GREEN

With St. Pat's '88 just around the corner, this could be your last chance to order your St. Pat's Green. If you're not planning on visiting Rolla before the St. Pat's celebration on March 17-19, then you had better order now! Here's a list of St. Pat's Green for 1988:

Sweatshirts (S, M, L, XL)	\$13.50	Pilsner Glasses	\$3.50
Sweatpants (S, M, L)	\$12.50	Shot Glasses	\$2.00
Hats	\$6.00	Huggers	\$3.00
Garters	\$1.00	Buttons	\$1.00

Orders under \$10, please include \$2.25 for postage, more than \$10 please include \$3.00. Prices are subject to change.

Remember—there's no Green left after St. Pat's and we sometimes run out of some items early, so order your Green now.

Send your order to: St. Pat's Board, c/o Eric Kozak, Sigma Phi Epsilon, 801 Park St., Rolla, MO 65401.



## SME "Joe Miner" Belt Buckle and Hard Hat Stickers



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

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

Orders and checks should be made out to the Society of Mining Engineers and should be mailed to Randal Manning, 226 McNutt Hall, UMR, Rolla,

MO 65401.

Please ship \_\_\_\_\_ buckles at \$7.50 each and \_\_\_\_\_ hard hat stickers at \$1.25 each. Enclosed please find a check for \$ \_\_\_\_\_.

Name \_\_\_\_\_

Address \_\_\_\_\_



# Alumni Section News

## Pacific Northwest Section

On Saturday, Sept. 19, 1987, the Pacific Northwest Chapter held our annual family potluck picnic. We had the picnic at Lincoln Park in West Seattle on the shoreline of Puget Sound. The water setting was beautiful and the weather was perfect. We were fortunate to have Les Spanel from Bellingham furnish and barbecue salmon which he had caught. All of

the food was excellent. Some of us walked along the shoreline of the park. Others just enjoyed talking and catching up on what had happened since our trip to the Longacres Race Track in July. The small children had fun playing in the sand close to the shoreline.

We agreed to hold our annual busi-

ness meeting and dinner/dance in January at the Lake City Elks Club. We had approximately 30 people attend, including children, at our picnic. The following adults attended: Les Spanel, '59; Joe Draper, '81; John Adams, '74, Stephen Wright, '68; Maria and Tom Doering, '78; Marianne and Tom Wille, '69; Erik and Robin Tilman, '78; Sandie and John

Keibel, '66; Rosey and Vic Hoffman, '60; Dr. and Mrs. Robe McLachlan, guests of the Hoffmanns from Melbourne, Australia; Robert Gray, '67; Karen Cermak, a guest; and Marilyn and Pete Malsch, '62.

Stephen A. Wright, '68  
Secretary-Treasurer



## Ark-La-Tex Section

The Ark-La-Tex section of the alumni met Sept. 26, 1987, at 6:00 p.m. in Longview, Texas, at the home of John and Loretta Moscari. Loretta and the other wives had done lots of cooking and we had a wonderful supper. Twentyfour persons attended-eight were grads of MSM, eight were spouses and eight were guests. A short business meeting was held after supper and the party began to break up around 10:00 p.m.

Those in attendance were: Ardella and Phil Browning, '48; Katherine and Frank Zvanut, '32; Mary and Greg Willis, '75; Loretta and John Moscari, '51; Eilyeen and John Livingston, '39; Clydelle and Basil Compton, '39; Pauline and Bob Morlock, '49; Jim and Debra Little, '82. Guests were: Page and Gloria Brown, Nelson and Dardanelle Brown, Chal and Carol Creese, Tom and Elaine Gillespie.

Two meetings ago Frank Zvanut

appointed a nominating committee to list our new officer slate. Because of low attendance at the last meeting, the election was postponed until this meeting. The newly elected officers of the group are: Darrell Musgrave, president; Phil Browning, vice president; and Greg Willis, secretary/treasurer.

At the last meeting money was collected for memorial gifts in memory of James Forgotson and Ragan Ford, deceased alumni.

The October MSM Homecoming was discussed and several members of the group announced that they were planning on attending some of the festivities in Rolla.

It was tentatively decided to have the next meeting in January, with the actual date to be set later, in the Officers Club on the Air Force Base in Bossier City. John Livingston will be the host.



## Alumni Section News continued

### Dallas—Ft. Worth Section

On Sept. 29, 1987, Dallas-Ft. Worth area alumni gathered with students, faculty and members of the Society of Petroleum Engineers attending the conference in Dallas. Matt Bratovich, '73, organized the affair and even trained a back-up, Mike Callahan, '78, in case the Bratovich baby was born on Tuesday. It wasn't, mother and child were doing well, and Matt was passing out cigars.

Present were: Malette and Charles Reed, '83; Marilyn M. Smelcer, '80; Matt Honarpour, '69; Matt Bratovich, '73; Frank and Nancy Mackaman, Alumni Association, Tom Scumidt, '69; Mike Callahan, '78; John Council, '71; Tracie Donaldson, '85; Ellen and George Donaldson, '51; Dan Pickering, '88; Brian Robben, '88; Martin Rydsath, '87; Yvonne S. Paris, '87; Donald D. Henderson, '71; Bradley A.

Aman, '79; R.M. Brackbill, '42; Mike Griffin, '75; Tom Beebe, '87; Douglas R. Eden, '88; Scott M. Frailey, '85; Karen M. Frey, '85; Ken A. Kristof, '83; Barbara and Ed Barsachs, '50, '51; Susan Holley, '81; Maurice J. LeGrand, '57; Lynne A. Hoefler, '82; Steve Ohnimus, '68; Steve Wright, '70; Richard Henry, '70; Steve Flowers, '82; Bob Swain, '81; Bill Brunkhorst, '79; Lynn and Jag Ghole, '67; Alton J. Nute, '65; Jim Crafton, '65; Joe Green, '55; Glenn Brand, '83; Mindy Woodill, '84; Jim Rau, '78; Barry Shelden, '81; Kathy Shelden, '79; John Amerman, '83; Andrea Green, '80; Sharon and Bob Otto, '65; H. Lynn Hilburn, '69; A. Herbert Harvey; Billie Harvey; Dee and Ron Craig, '78; Mike Barton, '80; Marion and Carolyn Arnold, UMR faculty; Jim Martin, '73; Kevin Thornsberry, '85; Steve Miller, '88;

Stephen Nussbaum, '88; Bill DeGraeve, '79; Ann Saunders, '87; Ramona M. Tomblin, '88; Karetha K. Holland, '85; Robyn Weber, '87; Steven and Melodie Lance, '87; Gail, '67 and Ed, '67 Kettenbrink; Dennis M. Gleason, '76; D.T. Numbere, faculty; John Melvin; Betty Ellsworth, '80; Patrick Wagner, '86; Jim Mulligan, '72; Mark Krahenbuhl, '79; Mark Dieckmann, '82; Mike Avery, '82; Marc Gruenenfelde, '80; Betty and Al Welke, '52; Phil Bording, '67; Glenn Foss, '66; and Sam Kline, a guest.

After a brief report by Frank Mackaman, the door prizes were awarded. Although past association president R.M. Brackbill had commented on the prizes, it did not have any influence on the fact that he won one. He was the most senior alumnus there, by year of graduation.



### MEETING DATA

Event/Site	Date
Denver Section Meeting	
Denver, Colo. ....	Jan. 16-18
Lincolnland Section Super Bowl Meeting	
Springfield, Ill. ....	Jan. 24
Sun City Section Meeting	
Sun City, Ariz. ....	Jan. 24
Society of Mining Engineers Annual Meeting	
Phoenix, Ariz. ....	Jan. 26
Cape Girardeau Section Meeting	
Cape Girardeau, Mo. ....	Feb. 6
Florida Section Meeting	
Lakeland, Fla. ....	Feb. 13
Alumni Admissions Reception	
Rolla, Mo. ....	Feb. 22
Alumni Admissions Reception	
Springfield, Mo. ....	March 1
Legislative Recognition Day	
Jefferson City, Mo. ....	March 2
Kansas City Section Meeting	
Kansas City, Mo. ....	March 4
Alumni Admissions Reception	
St. Louis, Mo. ....	March 8
Bay Area Section Meeting	
San Francisco, Calif. ....	March 12
Alumni Admissions Reception	
Kansas City, Mo. ....	March 22
MSM-UMR Alumni Association Spring Board Meeting	
Rolla, Mo. ....	April 22-23
Alumni-Varsity Football Game	
Rolla, Mo. ....	April 23
50 Year Reunion at Commencement	
Rolla, Mo. ....	May 13-15

### Shanghai Section

During a recent trip throughout the Peoples Republic of China (PRC), Curators' Professor Delbert Day met two MSM/UMR alumni working at the Shanghai Institute of Ceramics, Chinese Academy of Sciences.

Prof. Yin Zhiwen received an M.S. in metallurgical engineering from MSM in 1948. He is a former director of the Shanghai Institute of Ceramics and is currently chairman of the academic committee and manager of the Development Center of Inorganic

Materials of the Shanghai Institute of Ceramics. Prof. Yin currently directs a large research group involved in growing single crystals of all types. Single crystals of Bismuth Germanium Oxide (BGO), grown in Prof. Yin's group, are being used commercially in the PRC and Switzerland for radiation detectors.

Mrs. Min Szugwei, Prof. Yin's wife, received her M.S. degree in chemistry from MSM in 1948. Mrs. Min heads a large group of engineers and scientists

at the Shanghai Institute of Ceramics that is developing various chalcogenide glasses for use in optical information storage devices. Germanium-Tellurium glasses doped with sulfur, arsenic, antimony, or bismuth are being developed for use in erasable optical discs and laser printers.

The Shanghai Institute of Ceramics is organized under the PRC Academy of Science. It employs 1,055 persons working in 16 different laboratories.

On Oct. 29, 1987, Delbert and Shirley Day enjoyed an outstanding 12-

course Chinese dinner as the guests of Prof. Li Jiazhi, director of the Shanghai Institute of Ceramics. At this dinner, Prof. Day presented Prof. Yin with a pin designating him an Honorary Joe Miner. Prof. Yin and Min Szugwei were quite interested to learn of the many changes that have occurred at UMR/MSM and in Rolla since they were students in Rolla in 1948. They send their warmest regards to their friends and acquaintances at UMR.

Delbert E. Day, '58



**Greater New Orleans Section**

The newly formed Greater New Orleans Section of the MSM-UMR Alumni Association celebrated Halloween (Well O.K., it was only Oct. 30!) with an old-fashioned weiner roast at the home of Paul, '61, and Martha Whetsell in Harvey (just across the river from New Orleans), La. Paul and Martha decorated the backyard with authentic hay bales, hanging spooks, two bonfires, two stuffed hobgoblins with pumpkin heads and Missouri Miner sweatshirts (no inference intended, we hope!). To top it off, Paul built a half-scale replica of a working outhouse, which was burned to the tune of "Old Mother Leary . . ." promptly at 10 p.m.!

The evening dinner was highlighted by an American favorite, roasted hot dogs on sticks, spiced up with a jalapeno quiche dish, and rounded out with chips, candies, roasted marsh-

mallows, hot chocolate, and hot cider with a flavor that hinted of rum (?). This just goes to prove that we don't eat seafood down here all of the time! All agreed that the weather was outstanding, and most of the evening was spent enjoying the fresh air.

A short business meeting was called to order by Section President Wally Stopkey, '52, who welcomed all the Miners and guests, introduced the newly installed section officers, and gave a preview of the various activities planned for the coming year. Area Director Curt Killinger, '73, '80, reported on the 1987 Homecoming at Rolla (Oct. 9-11) which, in addition to the usual fun filled events, included inaugural ceremonies for the new V.H. McNutt Hall for Mines and Metallurgy, and the Engineering Management Building. Also at Homecoming, the Alumni Association conducted

special workshops for the new Admission Ambassador Program, and for local alumni section officers. The latter session was also attended by Bill Koederitz, '51, representing the GNO Section. President-Elect Michael Herries, '83, '84, reported that a questionnaire would be forthcoming to survey area alumni interests.

The final event of the evening was the viewing of the new 10-minute video cassette prepared by the admissions office for use in student recruitment. It gave many of us a new perspective on the campus and its programs, curricula, and student body. This was followed by several rounds of stories about the "Good Old Days" on campus from several different vintages of Miners! Several pamphlets and bulletins were available for review which summarized the current status of the school.

The citation for the farthest distance

travelled went to Mike, '81, and Susan McCoy of Pascagoula (how do you say that?), Miss. They were closely followed by runners-up from Baton Rouge, La., the Kliers and the Stegners.

Those in attendance at the Halloween Party included: Paul, '61, and Martha Whetsell; Mr. and Mrs. Ralph, '38, Wilkey; Mic, '58, and Robin Micka; Dale, '59, and Betty Randels; Wally, '52, and Lorraine Stopkey; Jerry, '63, and Laverne Klier; George, '74, and Joy Stegner; Curt, '73, '80, and Marybeth Killinger; Michael, '83, '84, and Paula, '84, Herries; Sheila, '83, McDonnell; Theresa, '82, Broschak; Lisa, '83, Ferguson; Mr. and Mrs. Walter Whetsell; Mike, '81, and Susan McCoy; James, '67, Ragland; and Ellis, '79, and Becky Sisk.

Curt Killinger, '73, '80  
Director

**Tulsa Section**

More than 60 alumni and friends came to hear Martin C. Jischke speak as the Tulsa Section held a meeting at the Golf Club of Oklahoma on Sunday, Oct. 4, 1987.

It was a beautiful fall afternoon and a "good time" was had by all in attendance.

The reception was held in the Wil-

liams Company cottage and the local section chairman and his spouse, Roy and Sandy Wilkens, handled all arrangements for the activities. Special appreciation was also expressed to Vernon Jones and Keith Bailey for their assistance.

Those sharing in the fun included Faye and Ernest Moran, '27; Betty J. Wenzel, guest; Nancy and Don Brack-

hahn, Alumni Association; Lisa and Jon Manning, '79; Ann and Bill Vark, '50; J.V. Spalding, '39; Gayle and David Kick, '57; Luan and Doug West, '80; Anja and Jeff Ghadiali, '66; Sue and Rick Katterhenry, '75; Patt and Wes Watkins, '73; Donna and Richard Riley, '70; Carolyn and Harvey Bauman, '64; Ginny and Bob Pohl, '68; Steve Malcolm, '70; Irene and Joe Cole, '54; Susie and Charlie

Barnes, '66; Cathy Jordan, guest; Michael Crosby, '84; Mollie and Ernie Achterberg, '53; Donna and Jim Bertelsmeyer, '66; Sandy and Jack Horn, '66; Celia and Bill Engelhardt, '60; Maralee and Vernon Jones, '53; Jimmie and Hans Schmoltdt, '44; Betty and Bob Ponder, '50, '52; Pat and Keith Bailey, '64; Sandy and Roy Wilkens, '66; and Chancellor Martin C. Jischke.





### Cape Girardeau Section

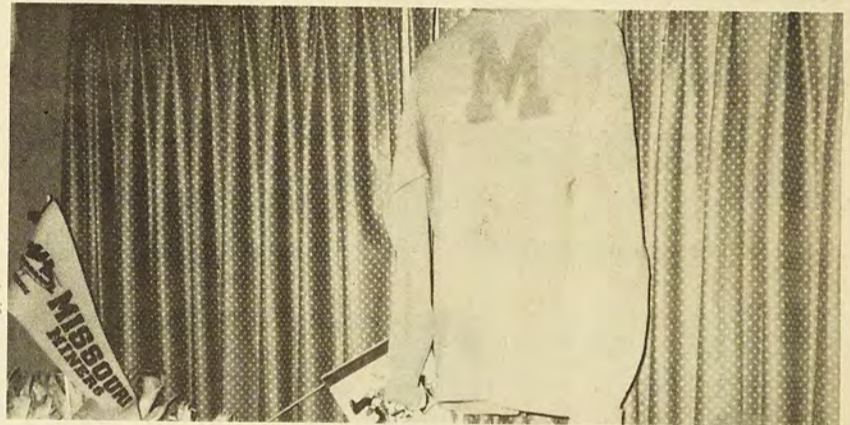
Another successful brunch-reception was held at Cape Girardeau on Saturday, Nov. 7. More than 50 alumni and friends did not let the 16-0 loss to SEMO dampen their spirits. Max and Jo Burgett, '54, planned and hosted the event. Jo's decorations included a letter sweater from the 50s and a variety of Homecoming buttons, banners and other MSM-UMR paraphernalia. The most popular item was a tree decorated with papier-mache Rolla football players and plaster of paris helmet pins. These ornaments were distributed

to all in attendance and you can be assured that many of them will be found on alumni Christmas trees this year.

The alumni were joined by Coach Finley and the UMR Cheerleaders at a reception following the game where additional prizes were given. Mike Hammond, '62, received a copy of *A History of MSM-UMR* for having traveled the greatest distance to the section meeting (Centralia, Ill.) and Glen Staley, '44, received a 1984 St.

Pat's button for being the earliest graduate in attendance at the reception. Those in attendance at the brunch and/or reception included: Jo Ann and Max Burgett, '54; Clemie and Bill Stewart, '54; Betty and Ralph Phillips, '66; Poo and Punch Bennett, '54; Dorothy and George Penzel, '35; Cathy Staicoaf, '86; Paul Isakson, '86; Joan and Les "Woody" Holcomb, '51; Roger Ellis, '71; Leona and Frank Conci, '54; Martha and Bob Patterson, '54; Ann and Gene Edwards, '53; Jenny and Don Fuller, '66; Dixie, '68,

and Charles Finley, head football coach; Paul F. Carroll, '50; Robert E. Crowley; H.S. Adamic, '44; Carl Wulfels, '59; J. Mike Vickers, professor emeritus—enr. tech.; Mike Hammond, '62; Billy Key, UMR director of athletics; Jack Painter, '50; Glen Staley, '44; Karol and Bob Zieba, '58; Jan Conci-Smith, '85; Frank Conci; Larry Allen, UMR alumni office; Nancy and Don Brackhahn, executive director of the Alumni Association; and the UMR Cheerleaders.





# MINER SPORTS *Gene Green, Editor*

## Hall-of-Fame Inducts 14 Miners

A special new part of Miner athletics was unveiled on Oct. 17, as the MSM/UMR Athletic Hall-of-Fame inducted its first group of honorees.

"We are proud of the accomplishments represented in this first group, and look forward to honoring many other individuals in the years to come," said UMR Athletic Director Billy Key. "It was a special day for all involved, and we hope all alums and friends will come see the Hall-of-Fame the next time they are on campus."

Here is a look at the 14 former coaches and players that were the first inductees into the MSM/UMR Hall-of-Fame:

**Gale Bullman (1901-1977)**—A man whose career touched both the MSM and UMR eras, Bullman served as Miner athletic director from 1937-68. He also was head football coach from 1937-61 and directed the Miner track program for a number of seasons. An All-American at West Virginia Wesleyan, Bullman's name was honored with the construction of the Gale Bullman Multi-Purpose Building in 1968. He graduated from Marietta (Ohio) High School.

**Frank D. "Spike" Dennie (1885-1952)**—One of the earliest athletic directors in MSM/UMR's long history, "Spike" Dennie served as director from 1909-29, also holding down the head football coaching post for many years starting in 1909. Dennie was an All-American at Brown University before joining the Miner program. The World War I vet was a graduate of Williston Academy (Holyoke, Mass.). He served as a mathematics professor at the university until his death.

**Elmer Kirchoff (1912-1977)**—During his football career from 1930-33, many experts regarded Elmer Kirchoff as the best end in the state. He was first-team all-conference pick in 1932. Kirchoff also played basketball for the Miners for three seasons,

eventually serving as MSM hoop coach from 1934-37. He was a graduate of East St. Louis (Ill.) High School.

**Edward R. Kromka (1919-1972)**—The first Miner to earn a spot on the Little All-America Team, Edward Kromka was football captain in 1941. He also gained first-team all-conference honors that season, following a 1940 season that found him on the second team of the Collegiate Sportwriters Team. Kromka lettered in football at MSM from 1938-41. He was a graduate of Boonton (N.J.) High School.

**Llewelyn L. Lodwick (1889-1974)**—One of the few four-sport lettermen in Miner history, Llewelyn Lodwick starred in football, basketball, track and baseball from 1910-14. He was captain of the Miner basketball team in 1912-13. Lodwick earned 11 letters during his MSM career, at the time a record for the institution. A veteran of World War I, Lodwick graduated from Ottumwa (Iowa) High School.

**John L. "Jack" Imlay**—One of the most famous football players in Miner history, "Jack" Imlay was the quarterback on the nationally recognized undefeated and unscored upon 1914 team. Imlay served as team captain of the 1916 squad, also earning a letter in track that year. He was a graduate of Aberdeen (S.D.) High School.

**Harold D. "Tom" Thomas**—A talented athlete who earned eight varsity letters, "Tommy" Thomas starred in football and basketball at MSM from 1923-27. He was team captain of the 1924-25 Miner basketball team. The Mexico, Mo. High School alum was one Miner athletic standout who stayed close to home, as he has been a successful Rolla businessman for many years.

**John P. Sturm**—One of the top basketball players of the modern Miner era, John Sturm starred from 1957-60. He was a member of the MIAA first team in both 1957-58 and 1958-59 seasons. His 1,183 career points was best in team history until 1973, and he was the first basketball player at the school to score 1,000 career points. Now residing in Florissant, Mo., Sturm attended St. James (Mo.) High School.

**Richard J. Cunningham**—One of the top football players in Miner history, Richard Cunningham was a gridiron standout from 1937-40. His 1940 season ended his career in style, as the team captain was a first-team all-conference pick on the Associated Press, coaches and sportswriters' teams. The Blewett High School (St. Louis) alum now resides in Scottsdale, Ariz.

**Milburn "Fritz" Hassler**—A star football player at MSM from 1927-30, "Fritz" Hassler also played on the Miner basketball team in 1927-28. He was captain of the 1929 football squad, earning first-team all-conference honors. The next season, Hassler was honored by making the All-State collegiate second team. A graduate of St. Louis Soldan High School, Hassler currently resides in Chattanooga, Tenn.

**Gene Huffman**—A three-sport letterman, Gene Huffman earned 12 varsity letters while starring on Miner football, basketball and track teams from 1948-51. He served as football co-captain in 1951, gaining first-team MIAA honors in both 1950 and 1951. His 126 career points in football were at one time a school record. Huffman, who played his prep ball at Mountain Grove High School, now lives in Houston, Texas.

**Harley W. Ladd**—Earning eight varsity letters in football and track, Harley Ladd was an outstanding athlete from 1936-40. He was named to

the MIAA first team in football during both the 1938 and 1939 seasons, coming to the Miners from Thayer (Mo.) High School. Ladd now resides in San Antonio, Texas.

**James McGregor**—An outstanding football, basketball and track performer from 1932-36, James McGregor earned 12 varsity letters at MSM. He was well known for his basketball ability, leading the team in scoring three of his four years. In track, McGregor broke three school records, starring in the dash events and the broad jump. The Rolla High School alum now lives in Bonne Terre, Mo.

**Herman J. Pfeifer**—One of the few athletes to earn letters in four varsity sports, Herman Pfeifer was a standout in football, basketball, track and golf from 1933-36. He served as basketball team captain in 1934-35, and was named first-team all-MIAA in the sport the next season. In 1936 he also captured meet medalist honors in the MIAA Golf Tournament. The St. Louis Central High School graduate now resides in Hot Springs, Ark.

### Memorabilia sought

UMR Athletic Director Billy Key is appealing to MSM/UMR alumni to help provide interesting memorabilia to be displayed in the MSM/UMR Athletic Hall-of-Fame.

"We have a fine start at making the room very informative and attractive, but anything any of our former athletes has that may be of interest would be appreciated."

Key said old uniforms, equipment, photographs, balls, etc., could be displayed in the room, with each individual donating items recognized with a card displayed in front of the memorabilia.

"With the help of those former athletes and friends, we intend to make the Hall-of-Fame Room bigger and better in the years to come," Key said.



Honorees attending Hall-of-Fame induction activities were, from left: Powell Dennie (Spike Dennie's son), Mrs. Gale Bullman (Gale Bullman's wife), John Sturm, Harley Ladd, Llewelyn Lodwick (son of Llewelyn Lodwick), Richard Cunningham, Gene Huffman, Tommy Thomas, Herman Pfeifer, James McGregor and Fritz Hassler. Others honored, who were deceased and had no family member in attendance, were Ed Kromka, Elmer Kirchoff and Jack Imlay.



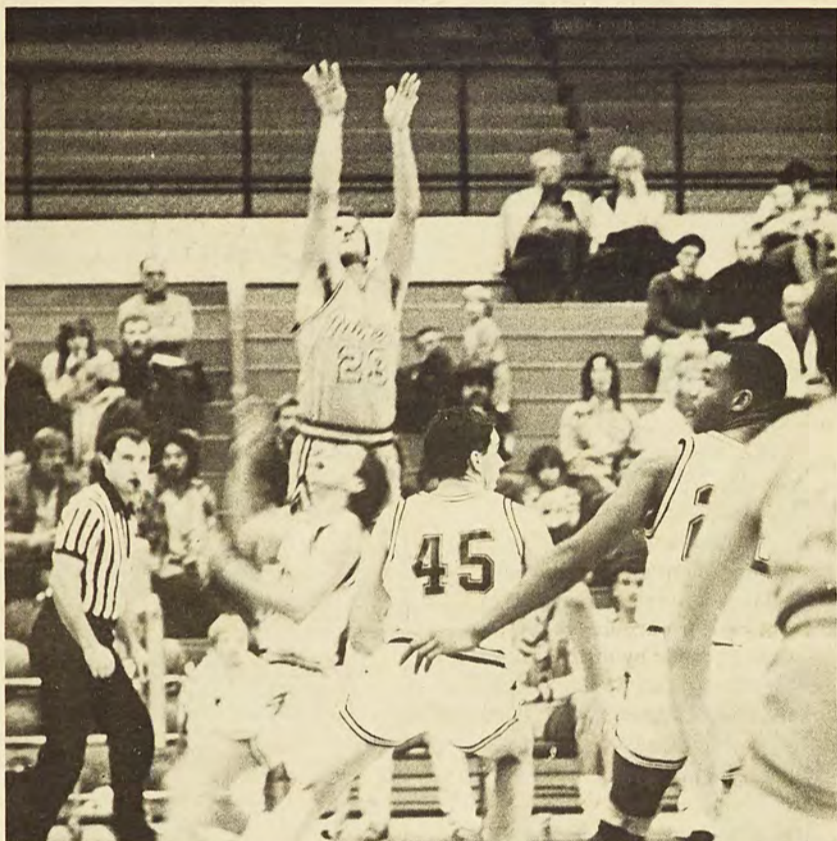
## Basketball Season Tip-off . . . Alumni vs Varsity

For the second straight season, UMR basketball alumni returned to tip-off the season and give the varsity Miners a pre-season tune-up.

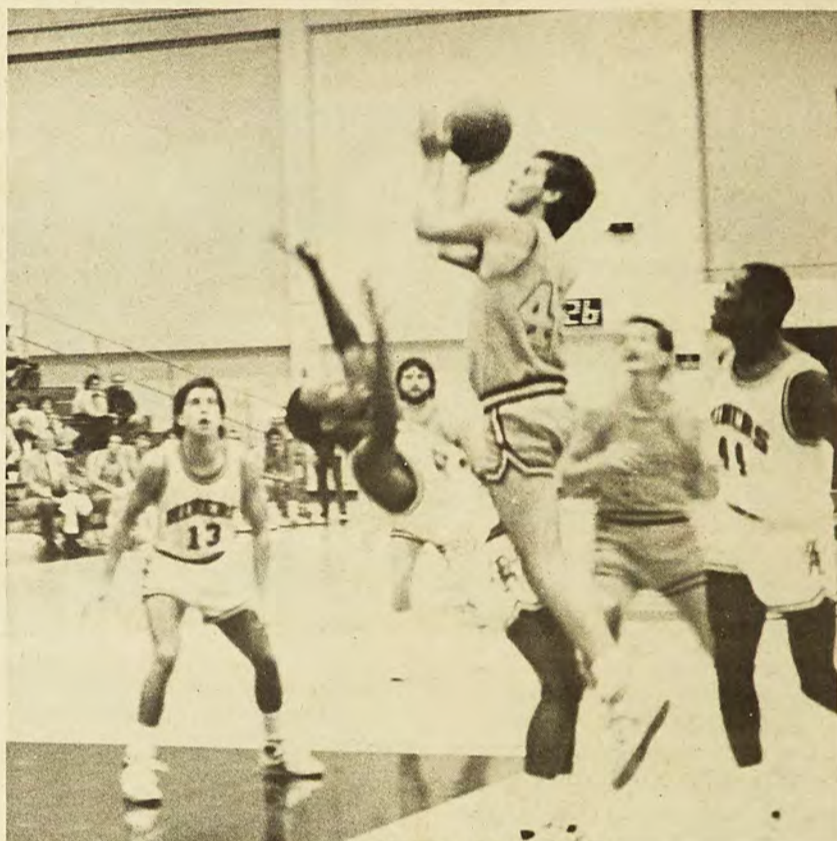
Dale Martin's varsity Miners defeated the Lucien Bolon alumni squad 99-65, despite a solid first half that saw the varsity hold only an eight-point lead. Fatigue set in during the second half, however, as the Miners won the game.

Alum Ross Klie had the distinction of leading all players in scoring and rebounding for the second straight year, as he delighted the Gale Bullman Multi-Purpose Building crowd. Also in double figures for the alumni was Mack Zorr with 13 points.

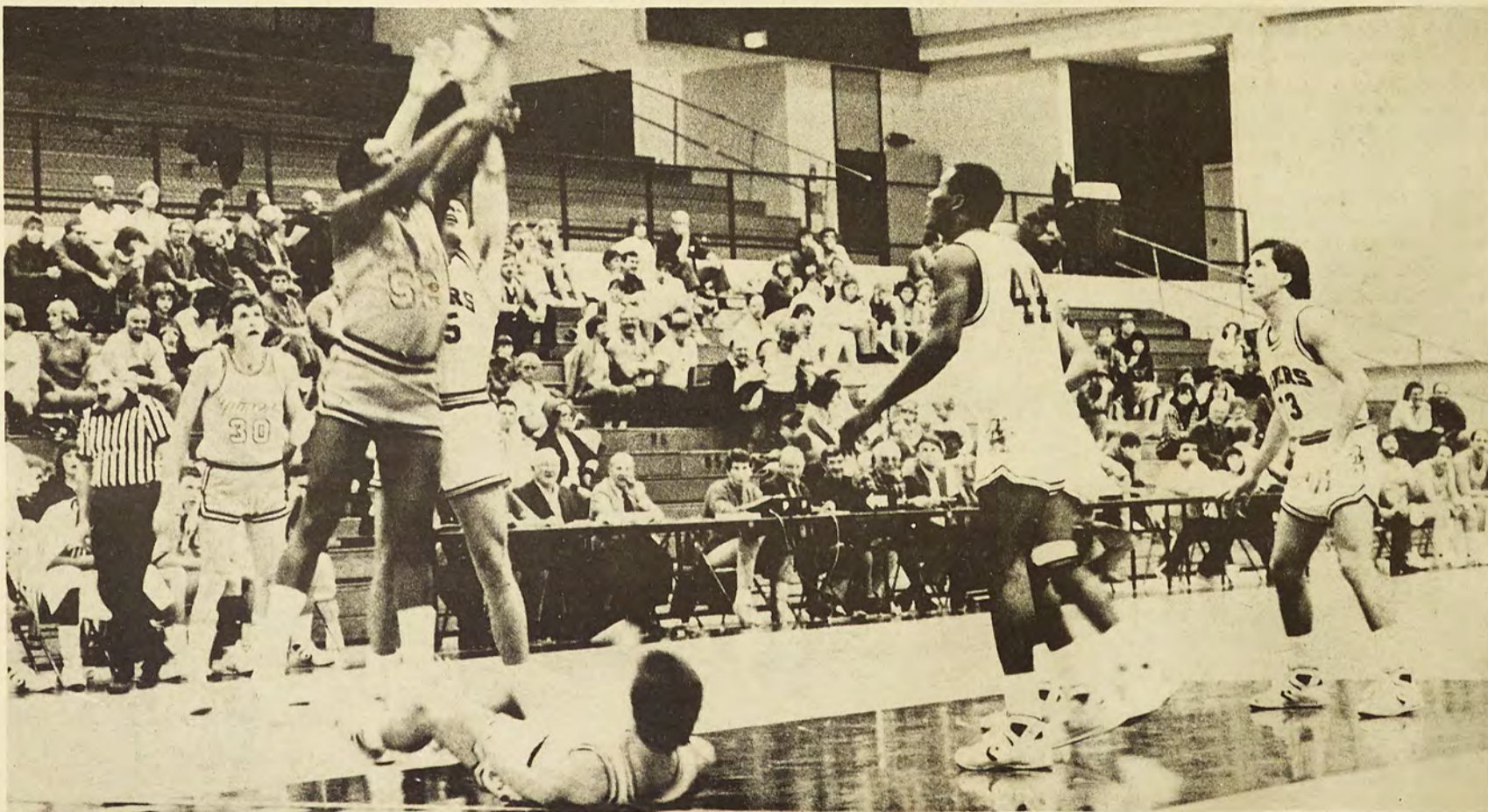
"The game is fun for the teams and the fans," said Martin. "We can't thank the guys who came back enough for their help and support."



Stan Shuemaker (23) shows he still has the outside shooting touch.



Alum Mark Zarr (45) shoots in two for Coach Bolon's club.

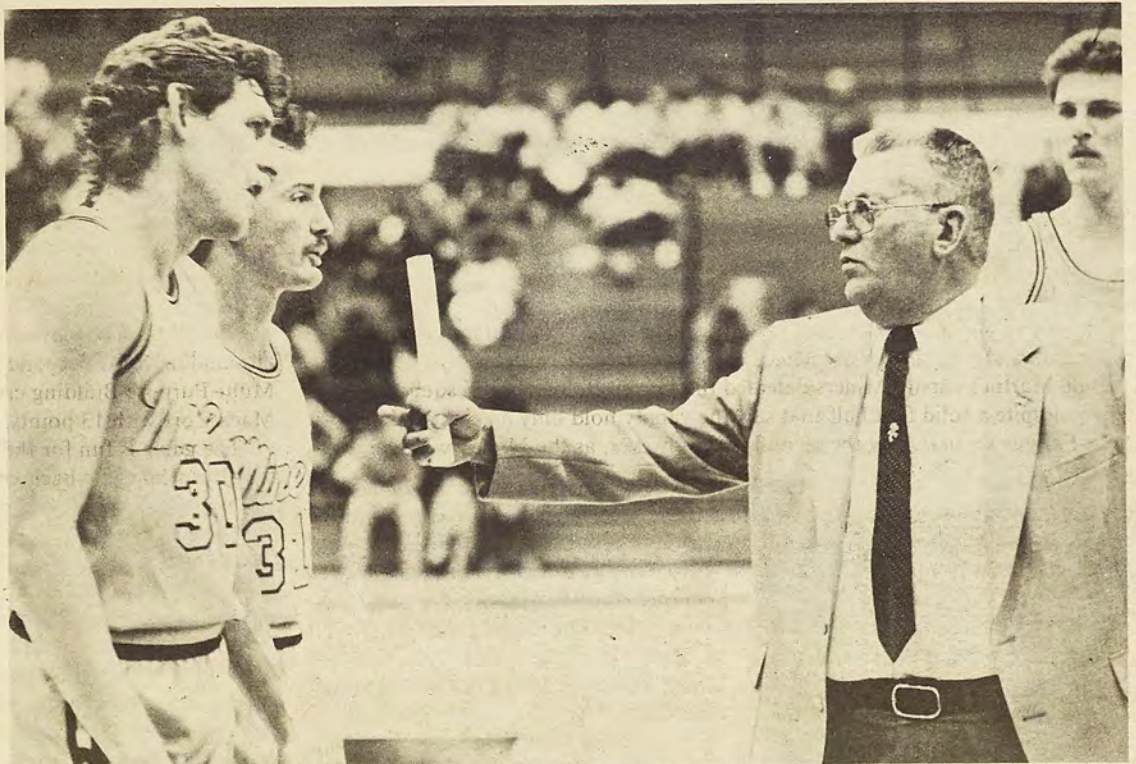


Tommy Noel (52) powers his way inside for a shot.





Miner alum Rodney Vessell is surrounded by UMR Varsity as he fights for a rebound.

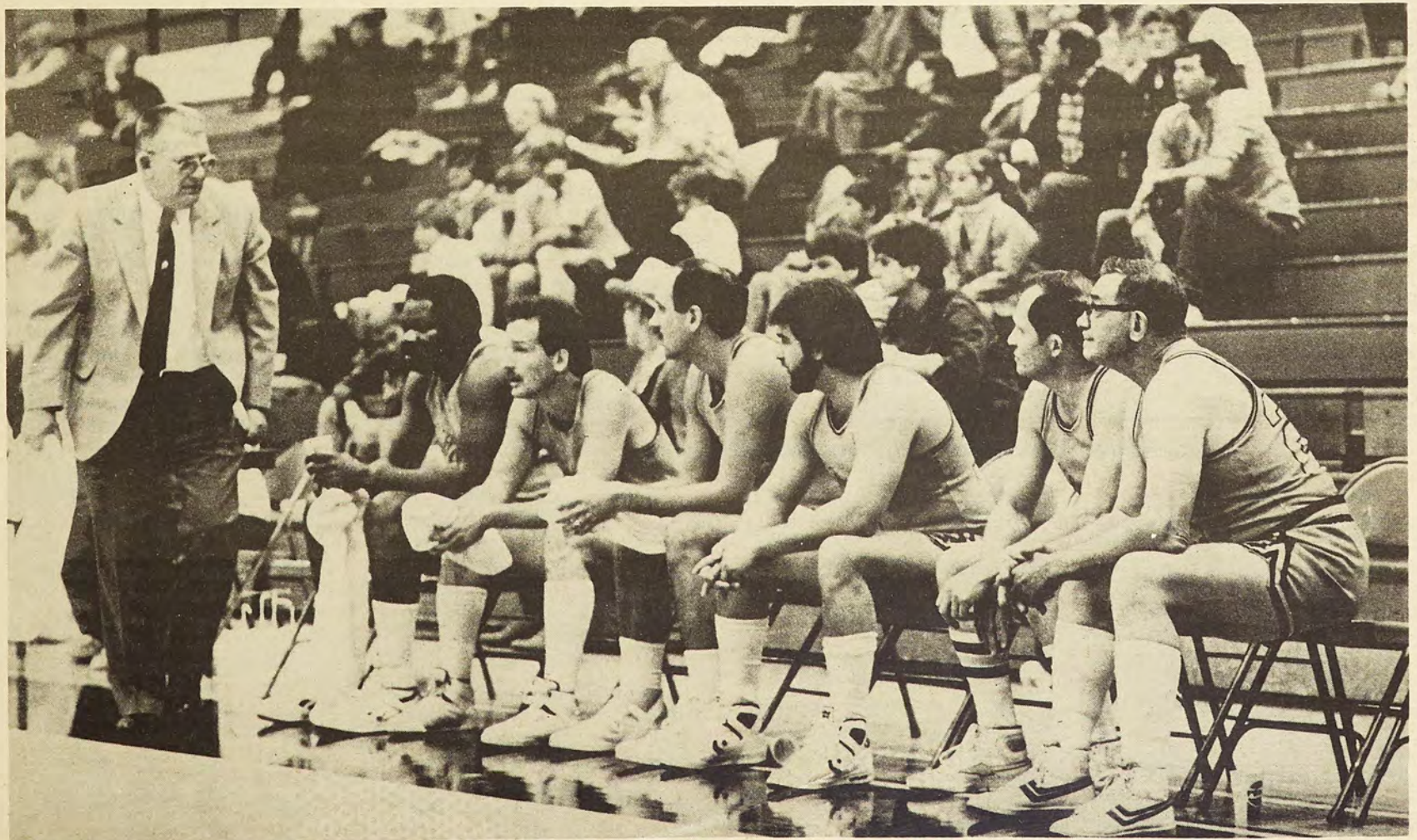


Ross Klie, left, and Phil Ostapowicz get instructions from Coach Lucien Bolon as Jeff Kipp observes. Klie led all players in scoring and rebounds.

The UMR athletic department would like alumni to be aware of recent NCAA by-laws regarding recruitment of student-athletes. The by-laws read as follows:

"All contact in person with prospective student-athlete or the prospect's relatives or legal guardian off campus for purposes of recruitment shall be made by institutional staff members. Such in-person, off-campus contacts by representatives of an institution's athletics interests is prohibited."

The department appreciates all alumni cooperation in this area.



Coach Bolon, left, Tommy Noel, Ostapowicz, Scott Sandbuther, Rodney Bessell, Bob Oetting and Mike Vickers.



# Student Activities

## Top UMR Students Recognized by *Who's Who*

Ten students from the University of Missouri-Rolla will be listed in the 1988 edition of "Who's Who Among Students in American Universities and Colleges."

Students were selected by a campus nominating committee and editors of the annual directory on the basis of academic achievement, service to the community, leadership in extracurricular activities and potential.

The students listed were chosen from among students representing more than 1,400 institutions of higher learning in all 50 states, the District of Columbia and several foreign countries. The directory has been published since 1934.

UMR students listed this year are:

**Linda L. Desilet** is a senior in aerospace engineering from Independence. She has held the offices of vice president and social chairman of Kappa Delta sorority, secretary of Sigma Gamma Tau aeronautics honor society, project officer of Arnold Air Society, and secretary of the Order of the Sun of Phi Kappa Theta Little Sisters. She is a member of Kappa Mu Epsilon mathematics honor society. She also is a distinguished military student.

**Douglas R. Eden** is a senior in petroleum engineering from Independence. He has held the offices of president of the UMR student chapter of the Society of Petroleum Engineers, secretary of Sigma Gamma Epsilon earth sciences honor society, vice president of Pi Epsilon Tau petroleum honor society, and president and secretary of Liahona House. His memberships include M-Club, Varsity Wrestling Squad, Blue Key National Honor Fraternity, Raiders, Chess Club and Rugby Club. His activities and honors also include *Missouri Miner* sportswriter, M-Club Athlete of the Week and Student Union Board Chess Champion.

**Joann K. Girard** is a senior in electrical engineering from Kansas City. She has held the offices of house manager of Chi Omega sorority, and treasurer of Intercultural Club. She is a member of Intercollegiate Knights service organization, the UMR student chapter of the Institute of Electrical and Electronic Engineers, the Society of Women Engineers, and the Student Union Board. She also is the recipient of a Curators Scholarship.

**Michael J. Gross** is a senior in metallurgical engineering from Kirkwood. He has held the offices of treasurer of Phi Kappa Theta fraternity and president of the St. Pat's Board. He also is a member of Theta Tau Omega honor society, the *Missouri Miner*, Kappa Mu Epsilon mathematics honor society, Tau Beta Pi honor society, Blue Key National Honor Fraternity, and the UMR student chapter of the Society of Metallurgical Engineers. He is a General Motors scholar.

**Rodney N. Joel** is a senior in civil engineering from Bois D'Arc. He has held the offices of president of the Interfraternity Council, president, vice president and secretary of Acacia fraternity, and secretary of the Greek Council. His memberships also include the UMR student chapter of the American Society of Civil Engineers. His activities and honors include Interfraternity Council Greek God, listed in Outstanding College Students of America, elected to "Business Tomorrow XIII," Big Brother/Big Sister program, Mason, UMR Auxiliary Services Board of Directors, and University Housing Advisory Board.

**Mary Ellen Marshall** is a senior in civil engineering from Ballwin. She has held the offices of president and recording secretary of Zeta Tau Alpha sorority and recording secretary of the UMR student chapter of the American Society of Civil Engineers. Her memberships also include the Associated Students of the University of Missouri, Intercollegiate Knights service organization, the Association of General Contractors, the Institute of Transportation Engineers, and the Golden Hearts of Sigma Phi Epsilon. She also is a member of UMR's women's varsity softball team and was chosen as an Interfraternity Council Greek Goddess. She is the recipient of a St. Louis City Panhellenic Scholarship. She also was chosen 1987 Homecoming Queen second runner-up.

**Gary Meyer** is a junior in aerospace engineering from Concordia. He has held the offices of president of the Rock Climbing Club, treasurer and vice president of Phi Eta Sigma freshman honor society, treasurer, first vice president and historian of Alpha Phi Omega service organization, and assistant treasurer and scholarship chairman of Beta Sigma Psi fraternity. His memberships include Blue Key

National Honor Fraternity, the UMR student chapter of the American Institute of Aeronautics and Astronautics, and Toastmasters. His activities and honors also include Honors Program Mentor and the Campus Coalition for Legislative Action.

**John D. Skiffington** is a senior in chemical engineering from Springfield. He has held the offices of president and vice president of UMR's student chapter of the American Institute of Chemical Engineers. His memberships include Alpha Phi Omega service organization, *Missouri Miner*, Sigma Chi fraternity, Tau beta Pi honor society, and Omega Chi Epsilon chemical engineering honor society. His activities and honors include Phillips Petroleum Scholarship, Outstanding Young Man of America, SWMSU Freshman Board of Regents Scholarship, Judy Fleebe Memorial Scholarship and Intramurals.

**Kim E. Thein**, is a senior in mathematics and psychology from Rolla. He has held the offices of treasurer of Phi Eta Sigma freshman honor society, and deputy commander, comptroller, and pledge trainer of Arnold Air Society. His memberships include the National Society of Pershing Rifles, Phi Kappa Phi honor society, and Kappa Mu Epsilon mathematics honor society. His activities and honors include varsity wrestling, ROTC air force commander, a Mathematical Competition in Modeling Meritorious Award, a General Motors Mathematics Scholarship, an Air Force Scholarship, a National Sojourners Award, a UMR Curators Award and an American Legion Scholastic Excellence Award.

**Earl A. Wiggley** is a senior in electrical engineering. He has held the offices of president of the Association of Black Students, and vice president of the National Society of Black Engineers. His memberships include Thomas Jefferson Hall Association, and the UMR student chapter of the Institute of Electrical and Electronic Engineers. His activities and honors include Minority Engineering Program Counselor, Minority Engineering Program Scholarship, Cooperative Education Program, Westlake Foundation Scholarship, Chancellor's Leaders Committee, Student Council Student Curator Search Committee and Intramurals.

## Two UMR Teams Earn Honors in National AIAA Competition

Two UM-Rolla aerospace engineering senior design teams have received honorable mention in a national collegiate competition of the American Institute of Aeronautics and Astronautics (AIAA).

According to AIAA, each year that organization sponsors a nationwide aerospace systems design competition among the various aerospace programs in the United States. Competition consists of senior student teams working on a preliminary design from a set of specifications and criteria supplied by

AIAA. Several corporations sponsor different topic areas.

Competitions and team members and their topics are:—"AIAA General Dynamics Corporation team aircraft competition," Michael A. Haas, team leader, Hazelwood; Steven M. Mouton, Carthage; Brian T. Selle, St. Louis; Timothy A. Stuert, Manchester; and Dr. Bruce P. Selberg, project director, UMR professor of aerospace engineering. The team designed an advanced technology rotary engine-powered personal aircraft.

"—AIAA Allied Corporation team design competition," Kenneth E. Wilson, team leader, Greenwood; Steven Todd Kaegi, Rolla; Todd C. Koval, O'Fallon; Timothy J. Lynch, Palm City, Fla.; Daniel Tad Mattie, Huntsville, Ala.; Stuart D. O'Kraski, Pekin, Ill.; and Dr. H. Frederick Nelson, project director, UMR professor of aerospace engineering. The team designed a space station rescue capsule.

Since 1980, five UMR senior aerospace engineering student groups have been recognized for their aerospace system design accomplishments.

## Jobs

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).

The *MSM Alumnus* is published six times a year: February, April, June, August, October and December. The February, August and December issues are in tabloid format; the other issues are magazines.

The February *Alumnus* carries a report of the Annual Alumni Fund and the Honor Roll of Donors to the Association and the Rolla campus. The June issue reports on commencement activities and the reunion of the golden alumni class. December's *Alumnus* carries stories of Homecoming activities, association reports and results of elections. The other issues carry general news of alumni and the University.

The publication of the *Alumnus* is financed by gifts to the Annual Alumni Fund. University funds do not pay for the *ALUMNUS*. The Board of Directors of the MSM-UMR Alumni Association sets the circulation policy and these are its guidelines:

- Each issue is mailed to all members of the most recent graduation class.
- Each issue is distributed to all faculty and staff members.
- Each issue is mailed to all University of Missouri Curators and certain University administrators.
- The February, August and December issues are mailed to all alumni of record.
- The other issues are mailed to donors to the Annual Alumni Fund, so that they receive six issues after the date of their gift.

This variation in mailing lists results in some problems. We get news items in a variety of ways and do not make it a practice to check to see if the news item refers to a donor to the Fund—that is not a part of the decision to publish. Consequently, we do publish items which refer to alumni who are not regular readers of the *Alumnus*. They never know. Frequently, we get a news item without any identification as to the alumnus involved.

If you sent us an item and you believe we have ignored it, there are several tests you can make: first, are you a current donor (you are not current if you get Fund mailings); and second, was the item identified so that your name and relationship to UMR was clear. Let us know if we are guilty of missing a newsworthy item—that is not our intention.



# Faculty Activities

## Cheng Named Curators' Professor of Civil Engineering

Dr. Franklin Y. Cheng, UMR professor of civil engineering, was named a University of Missouri Curators' Professor of civil engineering at the October UM Board of Curators meeting.

The professorship is awarded to outstanding scholars with established reputations in their professions. Cheng is internationally known for his research work in the areas of structural dynamics and earthquake structural engineering.

Cheng has been engaged in research on the effects of earthquakes on structures for more than 20 years and has directed numerous grants from various organizations on the subject.

He has received a total of \$1,053,932 for various research projects and has collaborative research programs with

five leading universities in China, Taiwan, Mexico and the U.S. He has served as a member of seven U.S. delegations to international meetings including the U.S. delegation for the U.S.-China-Japan Trilateral Symposium/Workshop held in Beijing, China, in 1985.

Cheng received a B.S. degree in civil engineering from Taiwan National Cheng-Kung University in 1960. He received an M.S. degree in civil engineering from the University of Illinois at Urbana-Champaign in 1962 and a Ph.D. degree in civil engineering from the University of Wisconsin-Madison in 1966.

He joined the UMR faculty in 1966 as an assistant professor of civil engineering. He became an associate pro-

fessor of civil engineering in 1969 and professor of civil engineering in 1974.

Cheng is publications secretary for the Journal of Structural Engineering Division of the American Society of Civil Engineers. He is active in several other professional committees, including committee chairmanship of the Structural Stability Research Council. He has also served as a member of consulting and advisory groups such as the Los Alamos National Scientific Laboratory in New Mexico.

Cheng has prepared more than 130 technical publications and authored or co-authored four books. He is the recipient of numerous honors and awards, including the Faculty Excellence Award and the Halliburton Excellence Award from UMR in 1987 and 1986, respectively, and the Honor-



Franklin Y. Cheng

ary Professorship from the Harbin Civil and Architectural Engineering Institute in China in 1981.

## Tsoufanidis Appointed to Committee

Dr. Nicholas Tsoufanidis, professor of nuclear engineering at UMR, has been appointed a member of the American Nuclear Society (ANS) Special Committee on Reactor Risk Reference Study.

According to ANS, the committee is appointed by the president of ANS to provide a review of the recently published Nuclear Regulatory Commission report entitled "Reactor Risk Reference Document, Draft for Comment" NUREG-1150, and its major supporting documents and any subsequent draft revisions of NUREG-1150.

The results of the committee efforts will be reported to ANS as an important contribution to improving the

knowledge and understanding of nuclear power plant safety factors.

Tsoufanidis, who joined the UMR faculty in 1968, received a B.S. degree in physics from the University of Athens, Greece, in 1960. He received M.S. and Ph.D. degrees from the University of Illinois in 1965 and 1968, respectively.

His research interests are in radiation transport problems, nuclear fuel, energy sources and resources, and health physics. Tsoufanidis has made several presentations at national and international meetings, written several technical publications and authored a text entitled "Measurement and Detection of Radiation."

## Jischke Named to Civilian Post

UM-Rolla Chancellor Martin C. Jischke has been named Civilian Aide to the Secretary of the Army for Missouri (East).

According to U.S. Secretary of the Army John O. Marsh, Jr., the appointment is an honorary one. "Civilian Aides across the country tell the Army story, relate Army policies which may affect their areas and generate continuing public support for the Army's mission," he said.

Jischke said, "I view this appointment as both an honor and a wonderful opportunity to serve our country and the United States Army."

A nationally recognized professional engineer and engineering educator, Jischke has been chancellor of UMR since April 28, 1986.

Jischke is chairman of the national Congressional Aeronautical Advisory Committee, is a fellow of the American Association for the Advancement of Science and a member of the board of directors of the Keystone Foundation, the advisory committee for engineering science of the National Association of State Universities and Land-Grant Colleges, the American Society of Mechanical Engineers and the American Physical Society. He serves on the Missouri Corporation for Science and Technology.

He is also a member of the American Society for Engineering Education, the National and Missouri Societies of Professional Engineers and the American Institute of Aeronautics and Astronautics.

## Armaly and Crosbie Elected ASME Fellows

Dr. Bassem F. Armaly, chairman and professor of the department of mechanical and aerospace engineering at UMR, and Alfred L. Crosbie, UMR professor of mechanical engineering, have been elected Fellows of the American Society of Mechanical Engineers (ASME) by the organization's board of governors.

According to ASME, the "honor is bestowed upon a small selective number of members who have made distinguished contributions in the mechanical engineering profession."

Armaly and Crosbie were honored during ASME's recent 24th National Heat Transfer Conference in Pittsburgh.

Armaly joined the UMR faculty in 1969. He became a professor of mechanical engineering in 1976. He received B.S. and M.S. degrees from the University of Iowa in 1963 and 1964, respectively, and a Ph.D. degree from the University of California-

Berkeley in 1969.

He is internationally recognized for his research in radiative and convective heat transfer. Armaly has published more than 90 technical papers and is active in ASME's Heat Transfer Division. He currently is chairman of the division's committee on aircraft and astronautical heat transfer.

Crosbie joined the UMR faculty in 1968 and became a professor of mechanical engineering in 1975. He received B.S. and M.S. degrees from the University of Oklahoma in 1964 and 1966, respectively, and a Ph.D. degree from Purdue University in 1969.

He is internationally recognized for his research in radiative heat transfer and has published more than 70 journal articles. Crosbie is the editor-in-chief of the *Journal of Thermophysics and Heat Transfer* and is an associate editor of the *Journal of Quantitative Spectroscopy and Radiative Transfer*.

## Geology and Geophysics Conference at UMR

An international conference on the tectonic control of ore deposits and the vertical and horizontal extent of ore systems was hosted this fall by the department of geology and geophysics.

The conference theme was the regional and local structural control and genesis of ore deposits of the Cordilleras (Rocky Mountains), the Precambrian Shield (Canada and Northern U.S.), the Midcontinent Proterozoic Basement, Mississippi Valley-Type ores, and those of the Appalachian region. Sixty-two papers were given during the three-day conference highlighted by presentations by 14 distinguished, internationally-known speakers.

Alumni who participated as session

chairmen included: Kiwi Bhatia, '76, professor of geology, Austin Peay State University; Milton Bradley, '65, chief geologist, Cominco American; Bruce Doe, '56, assistant director of U.S. Geological Survey Research; Erwin Mantei, '62, professor of geology, Southwest Missouri State University; and Nicholas Tibbs, '66, chairman, department of earth sciences, Southwest Missouri State University. Alumni speakers were Sandy, K. Balough, '84; Robert Brandom, '83; Richard D. Hagni, '62; Kenneth B. Horrall, '82; Eva Kisvarsanyi, '58, '60; Geza Kisvarsanyi, '66; Laurence N. Nuelle, '73; and Bruce L. Stinchcomb, '61. The alumni gave a total of 13 papers.

**Homecoming 1988 is October 7-8.**



# Alumni Personals

## 1925

**B. L. Browning, '25, '26**, writes that he retired long ago. He and Margaret are living at 21 Cherry Court, Appleton, WI 54915.

## 1929

**Harlow G. Jones** writes: "I am retired and spend my time playing golf and fishing. I am also active in S.A.R." Harlow and Doris live at 9040 E. Pine Valley Drive, Tucson, AZ 85710.

**Emmet R. Kirn, '29, '30**, writes: "I am sorry to report that my wife, Theresa, passed away on Feb. 22, 1987." Emmet is retired and living at 28242 Zurburan, Mission Viejo, CA 92692.

## 1931

**Rolla T. Wade** was certified recently by the State of Texas as a 50-year professional engineer. His address is 5202 Woodway, Houston, TX 77056.

## 1932

**Albert Jenczewski** reports a visit to Wills Eye Hospital in Philadelphia, Pa. instead of Homecoming in Rolla this year. Albert's address is 153 Willow Place, Sherrill, NY 13461.

**Stuart L. Davis** writes: "Mickey and I spent the summer at Eaglehead, Nova Scotia. Spent three days with **Darbey Hale, '32**, in Wadsworth, Ohio on the way home. Had a wonderful visit. Plan to visit **E.O. Crawford, also '32**, in Ocala, Fla. soon." The Davis's address is 332 Kent Drive, Cocoa Beach, FL 32931.

## 1934

**William R. Springer** writes: "Lydia and I are still hanging in there after more than 51 years of marriage. We keep busy with travel, fishing, and our children and grandchildren." The Springers live at 3164 S. Wheeling Way, Aurora, CO 80014.

**Robert C. Weigel** writes: "Sorry that Margo and I can't attend the Homecoming." Bob is retired. His and Margo's address is 120 Emerald Drive, Danville, CA 94526.

## 1937

**Walter F. Breuer** writes: "Hazel and I are still enjoying retirement on the Pacific." The Breuers' address is 37 W. Garden Green, Port Hueneme, CA 93041.

## 1938

**Robert P. Alger** writes: "Working with Texas Water Development Board to research use of geophysical well logs to evaluate five major aquifers in Texas." Bob and Louise's address is Box 3, Buchanan Dam, TX 78609.

Word has been received of the death of **John Hopper McCutchen** on March 13, 1987. John was on the tennis team at MSM and was a student assistant in biology. He received his B.S. degree in chemical engineering. Following graduation, he served as a sanitary engineer for the Missouri Public Health Service in Poplar Bluff and Independence, with the U.S. Army, then in Jefferson City before moving to the U.S. Public Health Service in Washington, D.C. He became a sanitary engineer consultant and served in this capacity in both California and Colorado. He was living in Littleton, Colo. at the time of his death.

## 1939

**Robert Roy Kenyon** died May 25, 1987, according to notice received by the alumni office. At MSM, Robert was a member of the Engineers Club and the American Society of Civil Engineers. He received his B.S. degree in civil engineering. After graduation, he went to work for the Fuller Construction Co. in St. Louis, Mo. Robert worked for many years with the Illinois State Highway Department in Springfield, Ill. He retired in 1979.



Albert G. Wishon- '75-'76

*Born in 1858 in Relfe, a small Missouri town with only one store, one flour mill, one carding-machine and a cotton gin, Albert Graves Wishon grew up in Phelps County near Rolla. At the age of 17, he entered the Missouri School of Mines and Metallurgy and became one of its first students. But when he was out on his own a year later, he left the school and was hired as a bookkeeper for a local general merchandise store. After working for some cotton brokers in St. Louis, the industrious young man set himself up as a merchant in St. James, Mo.*

*Albert later married Miss Henrietta Emory, a Missouri native, and moved westward, working for the Missouri Pacific Railroad. At 30 he moved again, this time to Tulare County near Fresno, Calif., where he became a bank cashier. But he was not content with banking and bookkeeping; even as a young man he wondered about the possibility of supplying power and irrigation to the rural farming areas of California. Albert would pursue this interest for the rest of his life.*

*Albert G. Wishon eventually became founder of the San Joaquin Light and Power Corp., which merged with the Pacific Gas and Electric Co. in 1938. PG&E, now of San Francisco, serves more than 35,000 farms in northern and central California. The following article tells the story of Albert Wishon, and is reprinted from PG&E Progress, the company's monthly newsletter.*

## Wishon's Dream Became A Reality in California's San Joaquin Valley

One man, more than any other, helped the San Joaquin Valley become California's agricultural heartland.

He was Albert Graves Wishon, who dreamed of a valley cultivated by electric-powered irrigation.

Wishon pioneered bringing electricity to central California farms through his company, the San Joaquin Light and Power Corporation.

Wishon did not invent electric pumping, and he wasn't the first to bring power to a California farm. But he was the first to build a powerhouse that was used mainly to generate electricity to pump water for irrigation.

He was also one of the first to aggressively promote rural electrification.

In 1895 he tried to bring power and water to the orange groves in Tulare County by building a power plant on the Kaweah River. Shortly after construction began, funding for the project was withdrawn and work stopped.

But Wishon stuck to his dream. In 1898 he formed a new power company and finished Kaweah Powerhouse No. 1.

He then gambled \$25,000 on some farmers near Lindsay.

The farmers balked at the cost of replacing their old wind-, gasoline- and steam-driven equipment with electric-powered machines. So Wishon borrowed \$25,000, bought the electric equipment himself and offered it to the farmers on a nothing-down, five-years-to-pay contract. Power bills would be figured at a flat \$59 per horsepower per year.

In two days Wishon ran out of motors.

(PG&E doesn't sell motors these days, but the company does offer financial incentives to agricultural customers who install energy-efficient equipment, including energy-efficient motors. In addition, PG&E offers several rate options for farmers, allowing them greater control of their energy bills.)

In 1902 Wishon took over as manager of the San Joaquin Power Company, a small Fresno utility.

The aggressive Wishon built new power plants and boldly built transmission lines into rural areas where no lines had gone before.

This line-extension policy encouraged farmers to use electricity for irrigation and other farm purposes. Soon dry farming gave way to irrigation, and agricultural production in the valley boomed.

In 1905, a new power company, PG&E, adopted Wishon's line-extension policy, and in the ensuing decades the two utilities aggressively promoted rural electrification—long before the federal Rural Electrification Administration was formed in 1936.

Today, Wishon's dream of a valley in bloom is a reality. More than 4 million acres of farm and grazing land in the San Joaquin Valley are irrigated, nearly all by electric-powered equipment.

Farms in this important area produce more than \$7 billion a year in crops and livestock.



## Alumni Personals



1987 Rollamo

### 1939 continued

The death, on May 22, 1987, of **William Lewis Sullivan Jr.** has been reported to the alumni office. At MSM William was a member of the St. Pat's Board, worked on the Rollamo and the Miner and was president of Kappa Sigma. He received his B.S. degree in mechanical engineering. After working for Midwest Radiant Corp. and Western Cartridge Co., both in Illinois, he spent the rest of his career with Monsanto Chemical Co. in St. Louis, as an engineering specialist.

### 1940

**George E. Fort** writes: "Had total knee joint reconstruction on one leg last December. Getting along OK but no more running. So much for my track career. Still working, but not too much." George is a senior partner in his company, Fort and Miller. He and Maxine live at 3939 N.W. 34th St., Oklahoma City, OK 73112.

**John D. McClendon** writes: "I enjoyed my retirement until I broke my right wrist and arm. This is a wonderful retirement area south of the Olympic Mountains. The climate is mild, seldom freezing in winter and A/C is not needed in summer." John's address is 415 N. River St., Montesano, WA 98563.

### 1941

**Richard G. 'Dusty' Rhodes** writes: "A few months ago I got around to marrying my high school sweetheart. She was my date during St. Pat's of 1940." Dusty is retired. He and Kathy reside at 105 Teresa Court, Niceville, FL 32578.

### 1942

**H. Warren Buckner** writes: "About to celebrate the twelfth anniversary of my retirement from General Dynamics (Dec. 1, 1975). My address is 1744 Englewood Drive, Lemon Grove, CA 92045."

**James Hutchinson** has died, according to notice received by the association. James attended MSM and was a member of Kappa Alpha. At the time of his death he was living in Wilsonville, Ore.

**Raymond Anthony Kelly** died July 27, 1987, according to notice received by the association. At MSM, Raymond was a member of the football team, the "M" Club, Prospectors, Satyrs and Quo Vadis. After graduating with a B.S. degree in mechanical engineering, he worked for Monsanto Chemical Co. in both Missouri and Illinois. Raymond became superintendent of maintenance and construction for Monsanto in 1962. At the time of his death, he was living in Palm Coast, Fla.

**Leslie J. Maher** writes: "I retired from Ethyl Corp., Visqueen Division, in 1985. I was plant engineer at the time. My address is 4451 Norris Road, Fremont, CA 94536."

**Leonard C. Wolff** writes: "We enjoyed Homecoming this month." Leonard and Ida Mae live at 1104 Pheasant Run, Columbia, MO 65201. He is retired.

**Charley Zanzie** writes: "Am enjoying golf, fishing, weather, shark's tooting, wild life and bridge games here in Venice, Fla. Have a personal computer to facilitate stocks hobby. I don't crave travel, though, because I'm already here. Retirement is great, and so are the St. Louis Cardinals." Charley and Helen live at 1247 Lucaya Ave., Venice, FL 34292.

### 1943

**Patrick D. Quinn** writes: "What the hell happened to all that time since 'I don't have to go to work anymore?'" Pat and Alleen live at 2733 55th St. S.W., Naples, FL 33999.

**N. Robert Underhill** writes: "I'm now semi-retired after having sold my interest in the Bennett Supply Co. Still do their engineering which makes me feel productive. We travel a lot, and this, plus golf and quail hunting is usually more than I can handle." Bob and Merrill's address is 1933 Karlin Drive, St. Louis, MO 63131.

### 1944

**Warren L. Larson** writes: "We produce superconductors, wire, strip, cable, etc. and carry out research and development on superconductors, including the new high-temperature ceramics superconductors of yttrium-barium-copper oxide." Warren is sales manager for Supercon Inc., Shrewsbury, Mass. His and Priscilla's address is 117 Lincoln St., Lexington, MA 02173.

**Glenn L. Staley Jr.** writes: "Appreciated the opportunity to associate with the growing M<sup>2</sup>A<sup>2</sup> (Miner Music Alumni Association) upon my return for this year's Homecoming. I will return more often now that I have acquainted myself with this group. Was more than glad to contribute my old trombone to the museum located in Harris Hall and get it out of my wife's way in the attic." Glenn is an instructor emeritus at Southern Illinois University-Carbondale. His address is 1508 E. Walnut, Carbondale, IL 62901.

**David A. Wicker** writes: "I am now living, since July 1, 1987, in Austin, Texas. The address is 2711 Mountain Laurel Lane, Austin, TX 78703, phone, (512) 452-3356. My wife, Ann, and I are returning to the United States after 31 years of service in Latin America; the last 19 in Sao Paulo, Brazil, where I served as president of the Brazilian subsidiary of National Distillers and Chemical Corp. Our principal activity was in petrochemicals and secondarily in the vitiviculture field. Although retired I have made contact with a newly formed Texas State Department of Commerce and will collaborate in the operation of their International Division. Of our seven children, two remain in Brazil married to Brazilians. These are our eldest, a son, and number three, a daughter. A good excuse to visit Brazil from time to time."

### 1948

**Robert E. Hackmann** recently was named president of the St. Louis Electrical Board. He and Dorothy live at 1412 Danbury Court, Belleville, IL 62223.

**Edgar Walter Spinzig Jr.** died of cancer on Dec. 19, 1986, according to a report from his wife, Mrs. E. W. Spinzig, 29843 Canterbury Circle, Denver, CO 80217. At MSM Edgar was a member of ASCE, Tau Beta Pi, was on the honor list for three years and was graduated with second honors. He received his B.S. degree in civil engineering. Following graduation he joined Johns-Manville Corp. and remained with the company throughout his career. He served the company in St. Louis, Kansas City, New York, Waukegan, Ill. and Denver, Colo.

### 1949

**Gordon L. Carpenter** writes: "I retired from the Air Force in 1978 and have been teaching electrical engineering at California State University-Long Beach since then. I co-authored a textbook titled "Electronic Circuit Design" with Dr. Clem Savant to be used for students in electrical and mechanical engineering. My home address is 6251 Newbury Drive, Huntington Beach, CA 92647."

**John J. Mulligan** writes: "Since last winter I have been chairman, Juneau branch, Alaska Miners Association. Mineral exploration is very active in the Juneau area. One major silver mine is under construction at Green's Creek. Many gold properties are being evaluated." John is owner of Mulligan Associates in Douglas, Alaska. His and Peggy's address is P.O. Box 335, Douglas, AK 99824.

**Warren W. Roberts** writes: "I retired from Combustion Engineering Inc. in 1982 as supervisor in nuclear components design. I am now working two days a week as a Red Cross volunteer in a large hospital." Warren and Earlene live at 900 Mt. Vernon Ave., Chattanooga, TN 37405.

**Landon C. Viles** writes: "Spent the whole month of September and early October in Ohio, and as usual got together with Ed Comerer, also a 49'er, and Katie in Vandalia. Hope to see them again here in Florida before we take off in December in our mini camper to visit our daughter in Southern California." Landon and Virginia's address is 10128 Matchlock Drive, Orlando, FL 32821.



1967 Rollamo



## Alumni Personals



ROBERT AND SYBIL BLOOME

### 1950

**Robert L. Bloome** writes: "Retired from General Motors with 29 years of service on Sept. 1, 1987. I was senior project engineer in charge of the design of electrical and computer control systems. Had also worked for Owens Illinois Glass Co. and General Tire and Rubber Co. before joining GM. We plan to take some fishing and sight-seeing trips. Sybil and I will continue to reside at 915 W. Whitmore St., Anderson, IN 46011."

**Loren K. Bates** writes: "I have been retired and drawing social security for three years. I was retired from LN Industries in 1978 after 28 years of service." Loren's address is 5513 Wyoming St., St. Louis, MO 63139.

**Jacob J. Jare** died Aug. 26, 1987, according to a notice from **Paul Munger, '58, '61**, UMR civil engineering department. Born in Yugoslavia, Jacob came to MSM in 1946. He was a member of ASME and served as vice president of both Tau Kappa Epsilon and the IFC. He received his B.S. degree in mechanical engineering. Following graduation he worked for Hopmann Cornice & Sheet Metal Works and for J.S. Alberici Construction Co. in St. Louis.

**Lovell Joe Lukrofka** died Oct. 13, 1987 in Independence, Mo. At MSM, Lovell was a member of the American Society of Civil Engineers and a student assistant in the civil engineering department. He received his bachelor's degree in civil engineering. During his career, Lovell worked for the Missouri Water Co. of Independence, Mo., eventually becoming vice president and general manager in 1974. He was a member of The National Society of Professional Engineers, the Missouri Society of Professional Engineers and A.S.C.E. He is survived by his wife, Lucille, who resides at 14602 E. 43rd St., Independence, MO 64055, two daughters, one sister and one brother.

**Warren E. McNely** writes: "Received 1986 State of California Association of General Contractors S.I.R. (Skill, Integrity, Responsibility) Award for service to the construction industry. It is given to one person each year for the state. This was the first time the award was given to a contractor." Warren is president of McNely Construction Co. in San Leandro, Calif. He and Carol live at 610 Elysian Fields Drive, Oakland, CA 94605.

**Charles F. Romine** writes: "I now live on an island off the coast of North Carolina with my wife Billie. The island is called Bogue Banks. My new toys are one large boat and a pick-up truck. My pastime is getting my children, grandchild and friends to fish this area. I retired from the Orcomatic Division of Eagle Picher Corp. Aug. 1, 1987." Charles and Billie's address is Pine Knoll Shores, 107 Cottonwood Court, Morehead City, NC 28557.

**Robert C. and Lorraine Settgas** write: "We finally made a trip to Alaska. What a wonderful state! We saw a lot of wildlife up close—it was a super experience." Bob and Lorraine live at 950 Quanal Court, Kirkwood, MO 63122.



KENNETH E. TEMPLEMEYER

### 1951

**Kenneth E. Templemeyer**, dean of Southern Illinois University-Carbondale's College of Engineering and Technology, has announced plans to resign the position next year. Kenneth, who has held the post for eight years, will take a year of sabbatical leave and return in 1990 to teach in the college's department of mechanical engineering, where he holds tenure. Kenneth's address is 1 Pinewood, Carbondale, IL 62901.

**Ervin E. "Erv" Dunn** writes: "Retired March 1, 1987. Dickie and I moved on board our 44-foot sailboat July 1. After cruising Great Lakes this summer we are now headed south. We'll go to Bahamas in January and Caribbean for about 1½ years, then we'll see where we go from there. Our new address is 309 E. Osceola St., Stuart, FL 34994."

**William S. Harper** writes: "We had three grandchildren born in the last year: Leslie Harper, Patric Harper, and Megan Bogataj. We also had a great trip to China." Bill is a project engineer with Church and Dwight Co. Inc. He and Jane live at 1333 McKinley, Rock Springs, WY 82401.

**Charles T. Schweizer** has retired from the Missouri State Highway Department. He and Evelyn live at 3213 Per-simmon, St. Charles, MO 63301.

**Francis "Frank" Edward Wees** died of cancer on June 26, 1987, according to a note from his wife, Elizabeth Wees, 5444 Spring St., Omaha, NE 68106. At MSM Frank was a member of Theta Xi, IFC, ASCE and Chi Epsilon. He received his B.S. degree in civil engineering. After graduation he went to work for Northern Natural Gas Co. in Omaha, Neb. then moved to the Union Pacific Railroad Co. He was an environmental engineer with Union Pacific at the time of his retirement in 1984.

**Robert I. "Bob" Zane** writes: "I have retired from the position of vice president of Dean Machinery Co. of Kansas City, Mo. after 28 years. Have moved full-time to my ski condo at Copper Mountain, Colo. My address is P.O. Box 3439, Copper Mountain, CO 80443."

### 1953

**Elwood L. Knobel** writes: "Working in Saudi Arabia and enjoying the warm climate." Elwood is a systems engineer with the U.S. Air Force. His mailing address is LSG Box 6222, APO New York, NY 09038.

### 1954

**Kenneth D. Cole** writes: "I am retired and traveling to Newfoundland, Canada—consulting on a part-time basis. My son, Jeffrey D. Cole, has enrolled in the winter 1988 semester at MSM to finish his engineering degree. He spent six years in the Navy." Kenneth and Verna live at 9725 Owen Brown Road, Columbia, MD 21045.

**Joe E. Gray** writes: "Edie and I were transferred to Singapore in July. The Bell Helicopter Co. has responsibility for nine Asian countries now with nine more to be added in '88. We'll have a spare bedroom and invite friends to stop by. I'll get back for the big 35th in 1989—for sure." Joe is general manager of Bell Helicopter, Asia. His and Edie's address is 25 Orange Grove Road, No. 02-01, Singapore 1025, Republic of Singapore.

### 1957

**Harold D. Nuffer** writes: "Retired from my position at the Naval Weapons Center at China Lake in April 1986. Almost immediately began working for Systems Exploration Inc. Have moved to a new home in Ridgecrest, Calif. Our new address is 220 East Rader, Ridgecrest, CA 93555."

**Charles A. Wentz Jr.** writes: "I recently moved into the new position of technology assessment manager at Argonne National Laboratory working on hazardous waste minimization, treatment, incineration, and oil and gas programs." Charles's address is Route 6, Box 78X Poag Road, Edwardsville, IL 62025.

### 1958

**Wayne T. Andreas** writes: "Enjoying retirement. I visited the campus last May. My address is 1802 Whitefeather Trail, Crosby, TX 77532."

**Joseph M. and Sandra Palovchik** write: "Daughter, Rebecca, enrolled at UMR this fall to pursue a chemical engineering degree. She received the Alumni Sons and Daughters Grant, Women in Engineering Scholarship and a Chemical Engineering Department Scholarship, and is most grateful." Joseph is manager, procurement, of Southwest Mobile Systems, a division of Emerson Electric in St. Louis, Mo. His and Sandra's address is 30 Bermuda Lane, Granite City, IL 62040.

### 1959

**George H. Morgan** writes: "New job. Have three children in engineering at Purdue." George is sales manager for White Hydraulics, Hopkinsville, Ky. He and Janis live at 7201 E. Gum St., Evansville, IN 47715.

**Billy J. Thompson** retired from NASA at the Kennedy Space Center in April 1987. He and Paula now live at 230 Madrid Court, Satellite Beach, FL 32937.



## Alumni Personals

### 1960

O.T. "Ted" Bentrup writes: "Recently changed positions; joined Kysor/Westran as manager of engineering. Sue and I will be relocating to Rockford, Ill. in October, less the children, who are now on their own." The Bentrups' new address is 1357 Albany Lane, Rockford, IL 61107.



BRUCE BRAMFITT, right

Bruce L. Bramfitt, right, '60, '62, '66, and Richard L. Bodnar inspect plasticine model of a heavy ingot used in tests on the Instron press which simulates the 10,000-ton press at the Beth Forge Division of Bethlehem Steel Corp. The two researchers at the company's Homer Research Laboratories won the Tenenbaum Award for the paper they presented on forging practices for heavy steel ingots. Their paper was selected over 33 other papers presented at the 28th annual Mechanical Working and Steel Processing Conference sponsored by the Iron and Steel Society of the American Institute of Mining, Metallurgical and Petroleum Engineers. The paper was published in the November issue of *Iron and Steelmaker* magazine. Bruce lives at 16 Pleasant Drive, Road 7, Bethlehem, PA 18015.

Herbert W. Schroer writes: "I joined Thomas Berkeley, Consulting Engineer Inc. Sept. 1, 1985, after working for 18 years with William Tao and Associates, Consulting Engineers, in St. Louis." He is now vice president of the firm. Herb and Louise's address is 11813 Lillian Ave., Des Peres, MO 63131.

### 1961

Farouk el Baz is off to Egypt again. He is the American coordinator of an 11-member scientific team funded by the National Geographic Society and co-sponsored by the Egyptian Antiquities Organization. The team plans to investigate a sealed pit adjacent to the Great

Pyramid. Not only will the scientists insert a tiny revolving minicamera into the pit to see what's there, they also will try to extract samples of air for tests that shed light on atmospheric changes of the last 4,600 years. The pit will be resealed when the probe has ended. The Egyptian coordinator said the air samples will be analyzed at the National Oceanic and Atmospheric Administration in Boulder, Colo. Their tests could prove or disprove the "greenhouse effect," a theory that atmospheric changes caused by modern civilization are raising carbon dioxide levels and possibly the earth's temperature. "Nothing from our atmosphere will disturb the moment of time when the pit was sealed," said el Baz, who has adapted technology from the U.S. Apollo lunar program for the Egyptian probe. El Baz is director, Center for Remote Sensing, Boston University. He and Catherine live at 213 Silver Hill Road, Concord, MA 01742.

William E. Mathews, commander of the U.S. Army Reserve's 917th Support Group at Richards-Gebaur Air Force Base, Kansas City, Mo., has been assigned as the chief of staff of the 102nd U.S. Army Reserve Command, St. Louis. The command has 6,900 soldiers and civilians in 78 units throughout Missouri and a portion of Illinois. William is a veteran of more than 26 years of service including active and reserve duty, since his commissioning in 1961. He is also vice president and owner of International Marketing Specialists Inc. and Bondtech Corp. of St. Louis. William, Judy and family live at 103 Sheffield Court, Ballwin, MO 63011.

Merle E. Southern recently received a Distinguished Service Award, the highest honor of the Department of the Interior, for his service as an engineer, cartographer, administrator and manager in the National Mapping Program of the U.S. Geological Survey. Merle is chief of the U.S. Geological Survey's Rocky Mountain Mapping Center in Denver, Colo. He has been with the U.S.G.S. for more than 25 years. His address is 5313 S. Tabor Way, Littleton, CO 80127.

Morris T. Worley was promoted to operations manager of Western Ag-Minerals Co., Carlsbad, N.M., Oct. 1, 1987. The company, which was formed in 1985 to purchase Pennzoil's Duval potash division, makes potash for the agricultural community. Morris and Sue live at 701 Winged Foot Drive, Carlsbad, NM 88220.

### 1962

Richard A. Campbell and Don W. Jones, '64, are president and vice president of Campbell Engineering Inc., respectively, in Huntsville, Ala. The company specializes in mechanical design

and fabrication of aerospace, military, and commercial hardware. Their current design activities are focused in three areas: Space Shuttle Experiment Package design, Space Station Solar Panel Actuator Simulator design, and development of the Fiber Optic Guided Missile System (FOG-M) with the U.S. Army Missile Command. Richard and Sue Campbell live at 1302 Toney Drive S.E., Huntsville, AL 35802, and Don and Marilee Jones live at 1812 Mountainbrook, Huntsville, AL 35801.

Bhalchandra T. Dave writes: "We have moved to our new home in the same town of Southington, Conn. Our older son, Hamel, is looking at colleges for next year. Although MSM is too far, he has considered it." B.T. is manager, process engineering and services, for Uniroyal Chemical Co. of Middlebury, Conn. The Daves live at 53 Wedgewood Road, Southington, CT 06489.

Henry P. "Pat" Duval writes: "I relinquished command of the 4th brigade, 104th training division in June after a four-year command tenure. Kay and I celebrated by spending a week on Oahu and Molokai Islands in Hawaii in September. Am now busy building the 747-400 at Boeing." Pat is manager of cargo furnishings, 747/767 division for Boeing. He and Kay live at 11100 30th Place SW, Seattle, WA 98146.

Gary L. Ferguson is presently assistant director of manufacturing for Caterpillar Inc., Peoria, Ill. Gary and Patricia live at Route 2, Metamora, IL 61548.

David F. Markel writes: "Nothing new with me! However, my son, Matthew Markel, is a sophomore now at MSM and is majoring in electrical engineering. He is a member of the Lambda Chi Alpha social fraternity, the MSM Marching Band and Jazz Band, as well as Kappa Kappa Psi, Alpha Phi Omega, and Phi Eta Sigma. Hope to come down to the 25th reunion this October." David is district manager, toll and assistance services, for Southwestern Bell Telephone Co. in St. Louis. He and Linda live at 4434 Vermilion, St. Louis, MO 63128.

Edgar E. Perrey Jr., '62, '70, writes: "I am now the general manager of Trinity Engineering Testing Corp. in Dallas, Texas. Beverle and I live in Double Oak, Texas but our address is 260 Meadow Knoll Drive, Lewisville, TX 75067."

### 1963

Richard L. Buck, '63, '70, writes: "I joined Blanke Plastic Co. Inc. located in Hermann, Mo. in September as vice president. Primary concentration will be national accounts. Blanke Plastic and associated Handi Pac companies mold and package products for the consumer and health care industries." Richard and Joetta's address is 1136 Burgundy Lane, Manchester, MO 63011.

Gary G. Schumacher writes: "We have two sons, Mark and Matthew, both at UMR. Our two daughters, Carrie and Colleen, are sophomores at Ladue High School. Both are cheerleaders; Colleen is president of her class and Carrie is treasurer of the class. I recently joined Murphy Co. as vice president and member of Murphy's executive Board. Previously I was vice president and board member of S&C Holding Co. and president of the Brooks Erection and Construction Co. subsidiary. I am also on the board of directors of Centerre Bank." Gary, Janet, and family live at No. 1 Overbrook, Ladue, MO 63124.

### 1964

Don W. Jones and Richard A. Campbell, '62, are vice president and president of Campbell Engineering Inc., respectively, in Huntsville, Ala. The company specializes in mechanical design and fabrication of aerospace, military, and commercial hardware. Their current design activities are focused in three areas: Space Shuttle Experiment Package design, Space Station Solar Panel Actuator Simulator design, and development of the Fiber Optic Guided Missile System (FOG-M) with the U.S. Army Missile Command. Don and Marilee Jones live at 1812 Mountainbrook, Huntsville, AL 35801, and Richard and Sue Campbell live at 1302 Toney Drive S.E., Huntsville, AL 35802.



1987 Rollamo



## Alumni Personals

### 1965

**James L. Butler** writes: "After 22 years with Monsanto, I resigned in July to join my father in the financial planning business in St. Louis. Our company, **Butler Associates**, offers financial planning services for individuals and small businesses, and a full range of insurance and investment products. We moved into our new office at 127 Kenrick Plaza, Suite 209, 7435 Watson Road, St. Louis, MO 63119, on Oct. 1." Jim and Diane live at 4573 Bridlewood Terrace, St. Louis, MO 63128.

**Gene Faenger, '65, '71**, writes: "Am a senior buyer in the Union Electric purchasing department and am with the on-site purchasing group at UE's Callaway Plant. I also coordinate various activities for central purchasing." Gene and Barbara live at 1325 Morningside Drive, Mexico, MO 65265.

**Dale F. Kiefer** writes: "I am currently facilities engineering division chief for the U.S. Army director of engineering and housing, located in Fort Steward, Ga. The division is responsible for maintenance of all real property to include utilities, buildings, and grounds." Dale's address is Route 1, Box 62C, Allenhurst, GA 31301.

### 1966

**Charlie M. Barnes Jr.** is now manager, natural gas general administration, for Williams Natural Gas. His address is 7519 E. 83rd Place, Tulsa, OK 74133.

**Larry N. McKinnis** writes: "At long last I will attempt to update you on my status. I returned from a two-year assignment in Hiroshima, Japan, for Ford Motor Co., with whom I have been

employed since graduation in 1966. I am presently working at Plymouth and Levian Livonia Transmission Plant in the area of automatic transmission design for an unannounced transmission. I am supervisor of the design department. Son, Darin, 20, is completing a co-op with NASA in Houston, Texas. He is a junior at the University of Michigan in the aerospace curriculum. Son, Gavin, 19, is also at Michigan (sophomore) and is studying sports management and communications. My wife, Patti, is teaching in the Birmingham, Mich., school district. Our new address is 28600 Glenbrook, Farmington Hills, MI 48018."

**William T. Stockhausen** writes: "I retired as a colonel from the U.S. Army in August 1987 after 30 years of active service. My last assignment was as the Inspector General for the Defense Mapping Agency, a Department of Defense, joint service level agency. My current address is 602 S.E. Adobe Drive, Lee's Summit, MO 64063."

**Thomas H. Strickland** writes: "I have had a consulting engineering business, Strickland Engineering, in Jackson, Mo. since 1979." Thomas's address is Route 1, Box 40, Jackson, MO 63755.

**Gary M. Turner, '66, '72**, writes: "I assumed my new position in April 1987, after 17 years with the St. Louis District Corps of Engineers, and am now chief, facilities engineering and operations division, U.S. Army Aviation Systems Command in St. Louis, Mo." Gary and Patricia's address is 8 Carriage Way West, St. Peters, MO 63376.

**Thomas J. Woodall** (also M.S. '66) writes: "Have been elected vice president of Morrison-Knudsen Engineers Inc. (#1 rated engineering company, 1986—per ENR)." Tom lives at 806 Wyndemere Drive, Boise, ID 83702.

been bogged down when hard rock dulled conventional drills. The drill directs an ultra speed jet of water which shoots through a sapphire nozzle at three times the speed of sound. The jet actually caused less noise and less vibration in the tunnel and the fire department equipment easily vacuumed up the excess water. The drill uses only two gallons per minute, forced through a hose-like device known as a jet wand by a pressure of 40,000 pounds per square inch. One water jet can do the job of 15 jackhammers and slices through solid rock and concrete with ease. Tom holds the patents on the tool and the sapphire nozzle.

### UMR Ingenuity Aids Rescue of "Baby Jessica"

Reprinted from Nov. 4 issue of the Troy (Mo.) Free Press

**Tom O'Hanlon, '68**, was the designer of the special water jet drill used in the rescue of little Jessica McClure of Midland, Texas. Tom is a native Missourian, educated in Potosi public schools, holding a Bachelor of Science in Mining Engineering from University of Missouri-Rolla. He now lives at 5215 Entaine, Tacoma, WA 98422, and is employed by Flow Industries, an affiliate company of Admac Inc., of Kent, Washington. Today, he is working with Flow Drill as director of product development, to design a new oil well drill, using water jets.

One of the drills was rushed from a Houston field office to the tunnel, where it finished off a job that had

### 1968

**Henry E. Anthonis II** died June 29, 1987, according to a notice received by the alumni office. At UMR Henry was a member of the American Ceramic Society, Delta Sigma Phi, Keramos (president), and Tau Beta Pi. He was on the honors list several times. He received his B.S. degree in ceramic engineering. Following graduation he was a graduate student at UMR before joining General Refractories Co. He served that company in St. Louis until joining Leco Corp. in Augusta, Ga. where he was employed at the time of his death.

**Michael C. Korb** was appointed recently to division general manager of the Panther Valley Division of Bethlehem Mines Corp., Bethlehem, Pa., and of Drummond Dolomite Inc., a Bethlehem stone quarrying subsidiary in Michigan. Michael has worked for Bethlehem since 1968, and has served as division engineer, chief engineer, and general superintendent of the Panther Valley Division. Michael, Pat, and their two children live at 507 W. Diamond Ave., Hazelton, PA 18021.

**Donald G. Ozburn** is presently engineering section manager for Sundstrand Corp. of Rockford, Ill. His and Sandy's address is 5837 Princess Drive, Rockford, IL 61109.

**David B. Price** has been named vice president and general manager of the specialty chemicals division of Monsanto Chemical Co., a unit of Monsanto Co. He will be responsible for worldwide business operations for products including Skydrol hydraulic fluids, Therminol heat transfer fluids, maleic anhydride, ACL water treatment chemicals, analgesics, process chemicals and chlorobenzenes. David is currently director, commercial development projects, for Monsanto Agricultural Co. He joined Monsanto in 1972, earned his MBA degree from Harvard Business School in 1976, and has held various positions with Monsanto in various divisions. He and Joyce live at 12625 Mason Forest Drive, Creve Coeur, MO 63141.

**Stan Wagher** has been named Southeast regional manager, contract operations, with Metcalf & Eddy Inc. of Wakefield, Mass. He joins the company with more than 17 years experience as an engineer, certified operator and project manager in the fields of wastewater and water. Prior to joining Metcalf & Eddy he was the manager of the Aiken County Service Authority, South Carolina.

### 1969

**Robert L. McFarland** writes: "I am now a senior project manager for CRS Sirrine in Phoenix, Ariz. My current assignment is project manager for the design of the interchange of existing I-17 and the new Outer Loop Highway. My address is 4530 E. McDowell Road, No. 263, Phoenix, AZ 85008."

**Gary L. Stripling** writes: "My current position is EC-135 systems department head at Electrospace Systems Inc. ESI is a wholly-owned subsidiary of Chrysler Corp. and is primarily a defense contractor. My wife, Beth, and I and our 10-year-old son, Andrew, will be relocating to Waco, Texas where I have been transferred." Gary's current address is 1305 Stony Brook Lane, Garland, TX 75043.

**Thomas M. Wilcox** writes: "I am no longer the city engineer for Fulton, Mo. Have joined the consulting firm of Marshall Engineering, located at 914 N. College Ave., Columbia, MO 65201, phone (314) 875-8832. JoAnn and I are still living at 1414 Colonial Drive, Fulton, MO 65251."

### 1970



LARRY H. CARPENTER

**Larry H. Carpenter** was appointed recently to executive vice president of Texas Oil and Gas Corp., and to president of its Delhi Gas Pipeline Corp. subsidiary. Texas Oil and Gas, a unit of USX Corp., is engaged in the gathering, transportation and processing of natural gas, and exploration for and production of gas, crude oil and condensate. Larry's address is 9614 Moss Haven, Dallas, TX 75231.

**Larry J. Dean** writes: "Moved to Orlando, Fla. in 1984 to design and build test equipment. Wife, Linda, and son, Matt, are doing well. I am working for Martin Marietta as a staff engineer. Our new address is 3496 Exeter Court, Orlando, FL 32812."

**Eric D. Dunning, '70, '72**, writes: "I am currently the engineering and construction manager for Procter and Gamble's Cape Girardeau plant. My wife, Darlene, an associate professor of management at Southeast Missouri State University, and I live just outside of Cape Girardeau with our daughters, Erica, 16, Kimberly, 6, and Jennifer, 5." The Dunnings' address is Route 2, Box 534-F, Cape Girardeau, MO 63701.



## Alumni Personals

### 1970 continued

**Richard L. Freeman, '70, '75**, has been assigned to the Federal Republic of Germany with the U.S. Army Corps of Engineers. His new position will be Directorate of Engineering and Housing, Norddeutschland. He will be responsible for the maintenance and repair of U.S. facilities, minor construction, and family and bachelor housing in the Norddeutschland Military Area. He is a lieutenant colonel. Richard, Barbara and family reside at Grubke 2, 2850 Bremerhaven, Federal Republic of Germany.

**Dennis F. Jaggi** writes: "After eight years in Dallas, it's back to Houston again. I'm now vice president of operations for Delhi Gas Pipeline, a subsidiary of Texas Oil and Gas Corp. Janet, the two boys, and the dog and cat will be in our new house before Thanksgiving (I hope). Apartment life is a drag." The Jaggis' address is 12222 Laneview, Houston, TX 77070.

**William W. Kimball** writes: "Recently promoted to project leader, methods and measurement, for Garrett Turbine Engine Co. Also proud to announce the birth of Zachary William on Aug. 31, 1987 (first child at age 40—still has it in him)." Bill, Heidi, and family live at 2010 S. Nina Circle, Mesa, AZ 85202.

**William R. Lewis** writes: "After an eighteen-year career with Dallas Water Utilities, I have left my position as deputy director and have joined Brown and Caldwell Consulting Engineers. I will be senior engineer in Brown and Caldwell's Dallas office." Bill's new address is 5707 Cliff Haven Drive, Dallas, TX 75236.

**Michael J.R. Moran** now lives at 43 Ripley Drive, Redstone Arsenal, AL 35808. He is a lieutenant colonel in the U.S. Army.

**Michael J. Rooney** writes: "I have changed jobs. Now work for Ball Valve Co. as manager of engineering. Have two children, Mark, 12, and Kim, 8. Ruth Ann, kids and I currently reside at Route 5, Box 95C2, Liberty, MO 64068."

**Harold W. "Hap" Ruhlman** writes: "I am currently chief engineer, manual transmissions, with the Hydra-Matic Division of General Motors. I reside at 9192 Huron River Drive, Brighton, MI 48116, and have one son, Kurt, 17."

**John L. Schwager** was elected recently as president and chief executive officer of Alamco Inc. of Clarksburg, W.V. John joined the firm in 1984 as senior vice president of operations. His address is 712-B James St., Bridgeport, WV 26330.

**Dennis P. Shea, '70, '73**, writes: "My current work as senior engineering specialist for Monsanto Chemical's Chocolate Bayou Plant includes the training of employees in the use of statistical process control principles as used and developed by Dr. W. Edward Deming for Total Quality Improvement." Dennis lives at 4422 Leonetti Lane, Dickinson, TX 77539.

**Earl A. "Hap" Thompson** writes: "I have been promoted to senior marketing associate at the American Petroleum Institute." Hap and June live at 8431 Willow Forge Road, Springfield, VA 22152.

**Terrence R. Ward** has been named president of the H&R Block Foundation in Kansas City, Mo. He has been with the company since 1984. He and Linda live at 4913 Briarcliff Road, Kansas City, MO 64416.

**Ozdogan "Oz" Yilmaz** is the author of *Seismic Data Processing*, a 526-page textbook published by the Society of Exploration Geophysicists. He is involved in research and technical coordination of the Western Geophysical Co.'s London Center. He can be reached c/o Western Geophysical Co., Isleworth, Middlesex, England TW7 5AB.

### 1971

**John E. Allen** is now director, engineering and construction, for the Arizona Nuclear Project. His home address is 7019 W. Pinte Ave., Glendale, AZ 85308.

**Ryan L. Forrest** writes: "I was recently transferred from Chicago to Detroit and am now area manager, industrial products division, of Texaco Refining and Marketing. I manage a large segment of Texaco's lubricant business to the auto industry. I have five sales engineers working for me." Ryan and Lou Ellen's address is 9576 Winterset Circle, Plymouth, MI 48170.

**Magan G. "Jim" Jahagirdar** writes: "After eight years in New Orleans we are moving to Indonesia. New assignment in the copper mining operation of Freeport Indonesia." Jim and Rita's address is c/o Freeport, P.O. Box 616, Cairns, Queensland, 4870 Australia.

### 1972

**John R. "Roger" Anderson, '72, '73**, writes: "I recently accepted a position as facilities manager for the St. Louis Priory School (a 146-acre prep school and monastery in West St. Louis County)." Roger and Susan live at 5218 Miami, St. Louis, MO 63139.



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**Robert M. Doerr** retired from the U.S. Bureau of Mines Dec. 27, 1985. He now spends his time computer consulting, and writing on the subjects of gardening and programming. Bob and Vivian live at 39 McFarland Drive, Rolla, MO 65401.

**Kenneth V. Field** writes: "Installing new generators for the FAA at automated flight service stations. Next stop is the Naval magnetic silencing facility in San Diego." Ken is vice president, construction and maintenance, with Turbine Generator Maintenance Inc. of Cape Coral, Fla. His and Beth's address is 715 Flamingo, Apollo Beach, FL 33570.

**William B. "Bill Gordon"** writes: "I was recently named Midwest regional manager for Commerce and Industry Insurance Co., a large commercial property and casualty insurance company, which is part of AIG Insurance Group. The company provides engineered fire protection service for its customers. My wife Terri and I reside in the Chicago suburb of Palatine, Ill. Our address is 54 E. Garden Ave., Palatine, IL 60067.

**Charles T. Myers III** writes: "On July 10, 1987, I finished three years as commander and district engineer of the Corps' Jacksonville District and assumed command of the Huntsville Division on July 15, 1987. The Huntsville division provides specialized engineering support, contractual support, and centralized training support to the Corps of Engineers." Charles and Fran's address is Box 135, Room B-6, Goss Road, Redstone Arsenal, AL 35808.

**W. Marie Perez** writes: "Recently appointed national coordinator of the innovative/alternative waste water treatment technology program for the EPA. Provides 20 percent bonus money for grantees using I/A technologies." Marie's address is 170 Little Falls Road, Fredericksburg, VA 22405.

**William F. Ranek** writes: "Bill and Debbie were married July 20, 1985. They have two children (Debbie's from a previous marriage) Tanya, 14, and Gordie, 11. They also have a little girl named Amanda, 2-months old." Bill is with Melvin-Simon & Associates and Debbie is in the real estate business in Indiana. The family lives at 173 Hawthorne Drive, Carmel, IN 46032.

**Stephen M. and Gloria Theis** write: "Steve and Gloria Theis and family have relocated to Tulsa after 14 years in the Carolinas. Steve has been promoted to vice president, operations, for Facet Automotive Filter Co., a division of Purolator." The Theis's present address is 8485 S. College Ave., Tulsa, OK 74137.

**Kenneth Leroy Yoksh** died May 17, 1987, according to a notice sent to the alumni office by his brother. Kenneth received his B.S. degree in mining engineering from UMR and had been a mining engineer with Peabody Coal Co. in Freeburg, Ill. until 1985. He is survived by his mother, Mrs. Marie Yoksh and his brother Karl Yoksh, both of 4150 Terrace St., Kansas City, MO 64111.

### 1973

**Michael B. Anderson** writes: "In February, 1987 I was promoted to southern area electrical engineer for Wisconsin Power and Light Co., where I manage the resources responsible for the planning, engineering, design, and mapping of the electrical distribution facilities located in the southern half of the company's service territory. This spring I passed the examination for registration as a professional engineer in Wisconsin. My advice to any graduate engineer is to take your exams as near to graduation as possible. A lot has changed in the field of electrical engineering since 1973. My wife, Diane, son, Benjamin, daughter, Denise, and I are enjoying our new home at 4253 Valencia Drive, Janesville, WI 53546, and we extend a challenge for any of our friends to come to Wisconsin and visit us."



## Alumni Personals

### 1973 continued

**James E. Bowie Jr.** writes: "For the past nine years, I have been a professor at the University of Southwestern Louisiana. I am also a partner and president of a private water and sewer utility company and contract operations group called Acadiana Treatment Systems. I received my M.S. and Ph.D. from Mississippi State in 1978." James' address is P.O. Box 30654, Lafayette, LA 70503.

**Wayne P. Bremer** has been promoted to technical service group leader for USI Chemicals Co. and has been transferred to the Chicago area. Wayne, his wife, Janet, and his three sons, Matt, Nate and Josh, reside at 505 E. Kenilworth, Schaumburg, IL 60193.

**William P. Cunningham** has been named as the Missouri Cities Water Company's first full-time engineer. He will be responsible for future planning and development activities and will work out of the company's St. Charles headquarters, serving all five divisions. William's previous experience has been with Missouri Pacific Railroad and the Campbell Design Group. His address is 10215 Cedarhurst, St. Louis, MO 63136.

**Mark G. Fehlig** writes: "I am a sales engineer with Gray Communications Consultants Inc. of Albany, Ga. and Quincy, Ill. We were recently awarded a contract for satellite news gathering vehicle at KOMU-TV, University of Missouri-Columbia." Mark and Patti's address is 1605 Hampshire, Quincy, IL 62301.

**Alvin E. Grossman** writes: "I recently retired from McDonnell Douglas Aircraft Co., St. Louis, Mo. and am looking for nearby students to tutor in math and physics (high school and early college level)." Alvin's address is 5 Nassau Circle, St. Louis, MO 63146.

**Dale Wayne Popejoy**, a civil engineering graduate in 1973, died in March, 1987. At the time of his death, Dale lived in Buffalo, Mo., near Springfield.

**Wesley S. "Wes" Watkins** writes: "Custom built my first and last house. In the future all construction will be limited to the pipeline industry. John is 9 and Katy is 5. Pat has returned to college to study computers." Wes is division manager of Williams Pipeline Co. of Tulsa, Okla. The Watkins' address is 5406 W. Orlando Circle, Broken Arrow, OK 74011.

### 1974

**Richard M. Baker** writes: "I work as a civil engineer for the Deputy Chief of Staff Engineer for the U.S. Army South in the Republic of Panama. I am scheduled to return to Fort Leonard Wood, Mo. in July 1988." Richard's mailing address is PSC Box 2537, APO Miami, FL 34002.

**Steve J. Dupont and Beth Rittenhouse** announce the birth of a daughter, Alexandra Rittenhouse Dupont, on Sept. 30, 1987. The baby weighed 6 lbs. 7½ oz. and was 20 inches long. Steve is owner of Xerox-Quoin Software and the family lives at 111 E. Levering Mill Road, Bala-Cynwyd, PA 19004.

**Randolph A. Latall** writes: "I have taken a new position at Litton-ACD in Springfield, Mo. effective Nov. 16, 1987. This is a process engineering position with emphasis in preproduction and phototooling."

**Alan S. Kornacki** writes: "I am a research geochemist with Shell Oil Company in Houston, Texas. I was promoted to the rank of major in the U.S. Army Reserve in April. Karen and I are expecting our first child in April 1988." Al and Karen's address is 12327 Brandywyne, Houston, TX 77077.

**Thomas G. Rehkop** writes: "Glad to be back in Missouri. I haven't lived here since graduation. Our daughter, Becky, started kindergarten this fall." Thomas is a systems engineer for the Computer Task Group. His and Barbara's address is P.O. Box 1086, Fenton, MO 63026.

**Bruce G. Smith** writes: "I am doing well. Was recently promoted into Chrysler Motors' executive management as an area manager. Still settling into my new home in the Willowbrook subdivision off of Telegraph Road in St. Louis County." Bruce's address is 6867 Bear Creek Drive, St. Louis, MO 63129.

**Willard B. Smith** writes: "W.B. 'Bill' Smith is manager of the hydropower department of the Benham Group. He is also vice president of the National Hydropower Association and a member of the board of directors. Bill, Jane, Adam, 5, and Jesse, 2, live in Tulsa, Okla." The Smiths' home address is 5018 S. 85th E. Ave., Tulsa, OK 74145.

### 1975

**Garry R. Aronberg, '75, '77,** writes: "Andrea and I are the proud parents of a baby boy, Daniel, born August 12, 1987." Garry is an environmental engineer with the Kuhlmann Design Group, Maryland Heights, Mo. He and his family live at 8651 Barby Lane, University City, MO 63124.

**Charles Stark Draper** died July 25, 1987, according to notice received by the alumni office. Dr. Draper received an honorary Doctor of Engineering degree from the University in 1975. A distinguished senior scientist, he headed his own company, Charles Stark Draper Laboratories Inc., in Cambridge, Mass.

**Daniel C. Roy** writes: "We are in the process of moving to Kansas City to assume the position of region engineer for Hydro Conduit Corp. We will move soon after our second child is born, any day now." Until then, Daniel, Denise, and family live at 12920 Emiline St., Omaha, NE 68318.

**Thomas R. Zraggen** writes: "Recently 'took the plunge' and formed my own engineering firm. The firm is named Aries Engineering Inc., is located at 1755 Park Place, Suite P, Stone Mountain, GA 30087, and specializes in professional engineering services for wood frame construction, where I have been involved for the last ten years. When asked where the name 'Aries' comes from, I respond I prefer a simple name that puts me towards the front end of listings." Tom and Gale's home address is 1967 Kensington High St., Lilburn, GA 30247.

### 1976

**David A. Barclay, '76, '77, '80,** has been selected as one of the Outstanding Young Men of America for 1988. He is a senior research engineer with Vista Chemical Co. of Ponca City, Okla. His address is 121 Lansbrook, Ponca City, OK 74601.

**George E. (Ed) Cannon Jr.** writes: "I was recently appointed dean, School of Civil Engineering and Services, Air Force Institute of Technology. Also I was elected president, Kittyhawk Post, Society of American Military Engineers, 1987-88." Ed and Sandy live at 4313 Ridgepath Drive, Dayton, OH 45424.

**Mark D. Dalen** writes: "Joined Applied Technology in April 1987 as a partner in the systems engineering business. Mark, Diana, Cristy, and Lorin have a new Houston area address: 3439 Amphora Circle, Sugar Land, TX 77474."

**Gary L. Dolle** writes: "I am now area manager with Southwestern Bell, supervising six management employees in the equipment engineering of all interoffice facilities in the 314 area code (i.e., fiber optics, etc.)." Gary's address is 5727 Greenton Way, St. Louis, MO 63128.

**Eric W. Elrod** writes: "I am now engineering manager for Walker McDonald Manufacturing Co., a division of Masco, which produces oil field and mining drilling tools. Elizabeth and I have two children." Eric and his family live at #9 Timberside Drive, Greenville, TX 75401.

**Robert E. Hilton** writes: "In May 1987, I was promoted to field service manager of the pressure multiplier group for Dowell-Schlumberger in Longview, Texas. We have two children; Adam is 4, and Maggie is 18 months old. Wilma and Bob's new address is 3015 Latonia, Longview, TX 75605."

**Dennis S. Rackers** writes: "Rhonda and I are the proud parents of Sarah Lauren, born Jan. 13, 1987. A note to all Phi Kappa Thetas who know the proud father: 'She's an excellent physical specimen, for a girl.' Our address is 1740 Arlington Road, Springfield, MO 65807."

**Gary F. Terschluse** joined Canam Steel, St. Louis, Mo. as chief engineer July 20, 1987. Gary is a registered engineer in the State of Missouri. He worked with Zurheide-Hermann Inc. and Carr and Associates Inc. as a structural engineer before joining Canam, and has planned and designed bridges and special structures in private industry, provided structural engineering services for office, residential and warehouse structures, and has developed computer programs for use in analysis and design of structural elements. Gary, Pat, and son, Brian's address is Route 2, Box 912, Washington, MO 63090.



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## Alumni Personals

### 1976 continued

**Thomas A. Tatman** is now vice president and assistant foundry manager of Acme Foundry Inc. of Coffeyville, Kan. His current address is Route 4, Box 63BB, Coffeyville, KS 67337.

### 1977

**Paul D. Andres** writes: "In June 1987, the other two operating managers and I purchased controlling interest in MOD-TAP System from the founder. I am now the vice president and a member of the Board of directors. MOD-TAP System is a designer and manufacturer of data communications systems and components, located in Harvard, Mass. Our worldwide sales this year will be more than \$10 million." Paul's home address is 19A Mount Lebanon St., Pepperell, MA 01463.

**Keith L. Bockelman, '77, '78,** writes: "I am still working as the pit operations engineer for Colowyo Coal Co. Our first son, Andy, is 2, and we are expecting our second child Oct. 28." The Bockelmanns' address is 3828 Exmoor Road, Craig, CO 81625.

**Steven Ray Geiger** was killed in a car accident on Dec. 10, 1986, according to a note from his wife, Sandra Geiger, 10557 Peairs Road, P.O. Box 179, Zachary, LA 70791. At UMR Steve was a member of Tau Kappa Epsilon and the Intramural Managers Association. He received his B.S. degree in mechanical engineering and, after working for McDonnell Douglas, joined Schlumberger, where he was a district manager at the time of his death.

**Leslie R. Hamilton** writes: "Les and Lorrie (Werner) have a new addition to the family. Our first child, Joshua James, was born June 8, 1987." Les is a project engineer with E.J. Werner and Associates of Raytown, Mo. The Hamiltons' address is 9940 High Drive, Leawood, KS 66206.

**Daniel T. Mudd, '77, '79,** writes: "Will be on world tour, starting with Australia, for the next six months." Daniel is section manager, manufacturing equipment and process engineering, of McDonnell Douglas Aircraft in Torrance, Calif. His home address is 6101 Glenwood Drive, Huntington Beach, CA 92647.

**John V. Stutsman** has been elected a senior member in the Institute of Electrical and Electronics Engineers (IEEE). Only 10 percent of approximately 280,000 IEEE members hold this grade. He is systems director at J.H. Ellwood and Associates Inc. of Chicago, and is a registered professional engineer and a certified public accountant. John's address is 8713 Monroe Ave., Munster, IN 46321.



**WILLIAM T. SCHMIDT**

**William T. "Tab" Schmidt** is president and founder of Kinetic Energy Development Corp., a St. Louis firm specializing in professional energy development strategies and technologies. Tab is responsible for the corporation's overall business plan and growth in energy projects for industrial complexes, institutions, and municipalities. The corporation is located at 712 N. Second St., Suite 210, St. Louis, MO 63102, phone (314) 621-5656. Prior to forming the company, Tab was vice president of development for Catalyst Thermal Energy Corp.

**David L. Thorn** is regional sales manager for ESAB of Sterling Heights, Mich. He is responsible for a distributor network of sales of welding and cutting equipment. Dave and Dallas live at 1085 Meadowcrest Drive, Pontiac, MI 48054.

### 1978

**Vance L. Behr '78, '79,** writes: "Finally! After eight years of working and attending the University of New Mexico, I received my Ph.D. in mechanical engineering in May 1987. I am still enjoying my work as a member of the technical staff at Sandia National Laboratories." Vance lives at 13504 Auburn N.E., Albuquerque, NM 87112.

Reports have been received by the alumni office of the death of **Roderick M. Cameron** in a car accident on Aug. 5, 1987. Roderick received his B.S. degree in geology, but was a minister of the Fifth & Roach Church of Christ in Dill City, Okla. at the time of his death. He is survived by his wife, Belinda Cameron, two children, his mother and two brothers.

**Jeffery J. Greene** writes: "I was promoted to project manager for McCarthy on the Sutter Memorial Hospital Project in Sacramento, Calif. in Oct. 1987. Sonja is working as office manager for an advertising company. Jody, 7, and Jarad, 4, are excelling in childhood." The Greenes' address is 5901 Woodglade Ave., Citrus Heights, CA 95621.

**Donald J. and Janice (Touzinsky) Heiskell, '79,** write: "We bought a new house and will be moving to Carmel Valley. Janice is semi-retired since we're expecting our second child in May." Donald is vice president of Software Inc. The Heiskells' new address is 10 Los Robles, Carmel Valley, CA 93924.

**David K. Holland Jr.** writes: "I am now working for Anheuser-Busch in St. Louis as a process engineer in research and development. We are fixing up a 60-year-old house in Clayton, which is a labor of love. It is fun to be back in the 'big city'." David and Tina's address is 7611 Shirley Drive, Clayton, MO 63105.

**Lawrence E. "Larry" Maxwell** writes: "Big changes in a short period of time. Married Teri in April. Left the Monsanto/Fisher organization selling process control systems in Austin, Texas to join IBM in St. Louis marketing computers. New home, wife, job, and city...all in two months." The Maxwells' address is 3013 Woodbridge Estates Drive, St. Louis, MO 63129.

**Larry D., '78, '79, and H. Lynn (Weiss) McCallister, '79,** write: "We are back in the U.S. after two years in Korea. Larry is finishing his Ph.D. in civil engineering (geotech.) at the University of Texas. Lynn will complete her Ph.D. in neurophysiology in December. We'd love to hear from all our friends from UMR." Larry is also a captain/company commander in the U.S. Army Corps of Engineers. The McCallisters live at 200 Cinnamon Lane, Euless, TX 76039.

**Lawrence J. Padfield** writes: "Still living in Houston working for Shell Oil Co.—the past two years as an engineering manager in the land development field." Lawrence's address is 19202 Cypress Flower Drive, Katy, TX 77449, phone (713) 859-2556.

### 1979

**Thomas D. Benignus** writes: "Just made my yearly trek back to the Ozark Extravaganza. The new buildings look great but if you keep tearing down or fixing up all the old hovels we used to live in, I'll get lost!" Thomas is a senior engineer with Emerson Electric. His address is 47 Metcalf Drive, Belleville, IL 62223.

**Theodore Cocos** writes: "Ted, Joan and Alex, 2½, now reside at 536 Lyman Place, Webster Groves, MO 63119. Ted recently passed his P.E. exam, and has been promoted to the position of chief engineer of Kickham Boiler and Engineering Inc. in St. Louis. They are expecting their second child around St. Pat's Day."

**Louis M. Greer** writes: "I am ending my bachelor career by announcing my engagement to Laura Stroud. Although we still live in Denver, the wedding will be in Florida in July 1988. T. Mac and Smitty owe me money." Louis is a staff engineer with Morrison-Knudson in Denver, Colo. His address is 330 S. Gilpin, Denver, CO 80209.

**Janice A. (Touzinsky) and Donald J. Heiskell, '78,** write: "We bought a new house and will be moving to Carmel Valley. Janice is semi-retired since we're expecting our second child in May." Donald is vice president of Software Inc. The Heiskells' address is 10 Los Robles, Carmel Valley, CA 93924.

**Paul T. Lammert** writes: "Married Dawn Keely on June 6, 1987. Have been working for Ethyl Petroleum Additives in Sauget, Ill. since graduating in 1979. Currently attending UMR Graduate Center at UMSL in the master's program in engineering management. Dawn is an interior designer at Amedco Contractors in St. Louis and an alumnus of Southwest Missouri State University." The Lammerts' address is 2829 Olde Chelsea, St. Charles, MO 63301.

**H. Lynn (Weiss) and Larry D. McCallister, '78, '79,** write: "We're back in the U.S. after two years in Korea. Larry is finishing his Ph.D. in civil engineering (geotech.) at the University of Texas. Lynn will complete her Ph.D. in neurophysiology in December. We'd love to hear from all our friends from UMR." Larry is also a captain/company commander in the U.S. Army Corps of Engineers. The McCallisters live at 200 Cinnamon Lane, Euless, TX 76039.

**Rebecca S. (Miessner) Nelson, '79, '80,** writes: "Mike and I are both still working for Exxon in New Orleans. My position is senior project engineer. We're also expecting our first child in May. Hello to the 'Fearsome Foursome!' " Mike and Rebecca's address is 4717 Haring Court, Metairie, LA 70006.

**James P. Neumann** writes: "Paul is 6, Colt is 4, Jacob is 3 and Zachary is 1. I was promoted to maintenance supervisor with Amoco Chemicals in Joliet, Ill. My wife, Dodi, and I live at 1255 Burr Road, Channahon, IL 60410."

**Stephen J. Sutterer** writes: "Accepted a new position with Teledyne and move to Southern Tennessee in August. This area is beautiful...a lot like Missouri Ozarks! Matthew, 6, Amy, 4, and Tiffany, 21 months, keep our life exciting!" Steve and Sandy's address is 115 8th Ave. South, Apt. D-2, Lewisburg, TN 37091.

**Jeffery R. Walker**, a computer mine engineer with Pittsburg and Midway Coal Mining Co. in Denver, Colo., recently presented a \$1,000 scholarship from P&M and the Chevron Corp. to Christopher M. Canon, a senior mining engineering student at UMR. Jeff and Ann Walker live at 8042 S. Cedar St., Littleton, CO 80120.



## Alumni Personals

### 1980

**Larry L. Barringer** writes: "Karen and I announce the birth of a daughter, Meaghan Brittany, on Oct. 5, 1987. We live at 821 Vassar Drive, Edwardsville, IL 62025. Larry is a process engineer for Shell Oil Co. at the Wood River Manufacturing Complex."

**Robert J. Been** writes: "Julie and I have a 9-month-old baby girl. We are both working at home remodeling every room. Julie should be flying in the next couple of months in the U.S. Air Force as a medical technician." Bob is a project engineer with the U.S. Navy at Mare Island Naval Shipyard in California. The Beens live at 203 Wallace Ave., Vallejo, CA 94590.

**James A. "Buck" Durham** writes: "I received certification as a professional engineer in February, 1986, and an M.S. degree from the University of Tennessee in June 1987. After spending six years with the Tennessee Valley Authority as a structural engineer in the Nuclear Power Program and one year as a geotechnical foundation engineer with a private consulting firm, I am now in private practice, still playing Rugby and loving it!" Buck lives on an 80-acre ranch in Northern Alabama where he farms and raises registered Black Angus cattle as a hobby. His and Kathleen's address is Route 5, Box 87, Decatur, AL 35603.

**Chris W. Edwall, '80, '81**, writes: "Mari Ann and I have left Florida and engineering for Los Angeles and a shot at a marketing career. I earned my MBA in May and am now a senior market development manager with IBM. Our two children, Stacy and Ryan, are 4 and 1, respectively, and we live at 26817 Camargo Drive, Saugus, CA 91350."



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**Don Guenther** writes: "I am proud to report the birth of Jennifer Lauren on May 11. She has been a real pleasure to Debbie and me. Between the baby, my wine making, our travels, work and church, we don't know what to do with all the spare time." Don is a senior sales rep with Monsanto in Kenilworth, N.J. He and Debbie live at 13 Champlain, Marlton, NJ 08053.

**Dean P. Heneghan** writes: "Rita and I are expecting our third child in February. Business is still going great since starting my consulting firm, Heneghan and Associates, in March, 1986." The Heneghans' address is Route 1, Box 103A, Jerseyville, IL 62052.

**Susan A. Leach** writes: "I've recently been transferred to Anchorage, Alaska. I love it! There are so many 'outdoorsy' things to do. And it's really not as cold as everybody thinks." Susan is a reservoir engineer II with Standard Alaska Production Co. Her mailing address is P.O. Box 196193, Anchorage, AK 99519.

**James J. Massmann, '80, '86**, writes: "Denise and I have two sons, Benjamin, 3 and Nicholas, 1. I have recently transferred from the nuclear engineering department to the engineering and construction department, mechanical development group, at Union Electric Co." The Massmanns live at 1130 Shadow Oak Drive, Ballwin, MO 63021.

**James R. O'Shea** writes: "Presently back at school, studying my second love, nuclear engineering. Will graduate in May of 1988—please send gifts." Jim's address is #1 Beacon Hill, St. Louis, MO 63141.

**Keith S. "Stan" Smith** writes: "Relocated to Colorado from New Jersey in February of 1987. I am currently employed with Intermountain Rural Electric Association as manager of operations and engineering. I received my M.B.A. from Fairleigh Dickinson University in Madison, N.J. in the fall of 1986. I am married, with no children, to Elizabeth (Hall) Smith, a 1978 University of Missouri graduate. Beth and I live at 9605 E. Coronado Court, Parker, CO 80134."

**William Y.H. Yan, '80, '81**, writes: "My wife and I will be moving to Houston, Texas soon. I have been with Arco Pipeline Co. since I left the University almost six years ago. A lot of people I have worked with respect UMR very much." William is an assistant engineer with Arco.

### 1981

**Michael W. Boone** writes: "I have started a new job as plant engineer with Hussmann Refrigeration Corp. in St. Louis." Michael and Lori live at #38 Grantwood Lane, St. Louis, MO 63123.

**Rebecca L. Burgess** writes: "After getting my master's in mechanical engineering from Stanford University, working at Sandia National Labs for four years and returning to school to change to computer science, I have finally settled in the San Francisco Bay area (I hope) and am gainfully employed. Whew!" Rebecca is a research engineer with Lockheed Missiles and Space. Her address is 221 Easy St., Mountain View, CA 94043.

**Joseph F. Cox II, '81, '83**, writes: "I accepted a position as construction engineer with Unocal Inc. (Union Oil Co. of California), in the refining and marketing division of L.A. (Unocal's largest marketing division). I am responsible for all cost estimating, project scheduling, equipment procurement and construction supervision associated with Unocal retail marketing facilities in Orange County, Calif. Susan and I are expecting our first child in mid-July. We plan to stay in Southern California permanently." Joe and Susan's address is 18936 Canyon View Drive, Trabuco Canyon, CA 92679.

**Stephen E. Kipp** writes: "I am now product sales manager of Container Products Inc., with national sales and marketing responsibility for a new line of plastic containers—polyethylene drums. In other news, I was married in April 1986 to Patty Korkuch of New Cumberland, Pa. Patty and I met in Atlanta where we were both working after graduating from college." The Kipps live at 4532 Kinvarra Circle, Mableton, GA 30059.

**Mary S. Klorer** writes: "I recently joined Ashland Chemical Co. of St. Louis as a sales representative. My home address is 9165 Robin Court, St. Louis, MO 63144."

**John W. and Yvonne P. (Turenne) Renz, both '81**, write: "John is an advanced process engineer with Owens-Corning Fiberglas in Toledo, Ohio. His major responsibilities include defining processes and refining the manufacturing process. He is instrumental in the design and startup of new production lines to manufacture two new products for the residential roofing market, and two products for the commercial roofing market. Come see us when you're in Toledo. Our daughter, Victoria, is 22 months old." The Renzes' address is 2412 Chriswood Road, Toledo, OH 43617.

### 1982

**Darrell R. Case** writes: "Have been with Banashek and Associates Inc. as a mechanical engineer for three years now. Have a son, Matthew, who will be 2 years old in October. My new son, Daniel, was born July 17, 1987." Darrell, Terrie, and family live at 1248 Newport Landing Drive, Fenton, MO 63026.

**Peter F. Fitzsimmons** writes: "Started working for Brunson Instrument Co. in February as an engineer in charge of production control. Brunson manufactures precision optical tooling and instruments for measuring. Kathryn is now 6 months old." Peter, Martha, and Kathryn live at 7245 Wyandotte, Kansas City, MO 64114.

**Randall M. Perkinson** writes: "I have been appointed to a four-year term as the Zone III representative to the American Society of Civil Engineers Committee on Younger Members. On Oct. 7, I spoke to the ASCE chapter on campus about computer-aided design and drafting." Randy works for Howard Needles Tammen and Bergendoff of Kansas City, Mo. His and Grayce's address is 10621 Oak, Kansas City, MO 64114.

**Eric G. Politte** writes: "I was transferred to Exxon's computing department in June 1987. Our (wife, Sue, daughter, Amanda, and son, Joshua) new address is 6630 Sumner Isle Court, Spring, TX 77379 and phone numbers are (713) 251-4833 (home) and (713) 656-4162 (office). Keep in touch!"

**Jeanne E. (Hillestad) Staab** writes: "Married Robert Staab May 24, 1986. I am currently working on a master of science degree in manufacturing management from General Motors Institute (part-time)." Jeanne is a reliability engineer, Packard Electrical Division, with General Motors. She builds wiring harnesses for GM cars. She and Robert live at 8794 Squirrel Hill, Warren, OH 44484.

**Douglas D. Stone** writes: "Sharon and I had a son, Michael Douglas, on July 7, 1987. He's growing fast. Lots of fun." Douglas works for McDonnell Douglas Aircraft in engineering design. The Stones' address is 4438 Rhine Drive, Florissant, MO 63033.

**David A. Voss** writes: "I was promoted to senior engineer, design, of McDonnell Douglas Corp. in Dec. 1986. My wife, Rita, is expecting our second child in Dec. 1987. Our first child, Lori, is 2 now." David and family live at 2912 Maldon Lane, St. Charles, MO 63301.

**Joel D. Wehrman** writes: "Promoted to technical supervisor over mechanical heat cycle systems for Sequoyah Nuclear Plant, Tennessee Valley Authority." Joel and Cindy live at 508 Wilder Valley Lane, Hixson, TN 37343.

**William A. Ziegler** recently married Elizabeth Levin of Glastonbury, Conn. William is an applications engineer with Fasco Industries of Jefferson City. Elizabeth works for the Attorney General of Missouri in Jefferson City as an assistant attorney general. The Ziegler family live at 2544 Concord Drive, Jefferson City, MO 65101.



## Alumni Personals

### 1983

**Donald J. and Eva E. (Taylor) Arndt, both '83,** write: "Don is now working for Texas Instruments in the terminal and printer design group. Eva is working for the Continuum Company as an instructor. She has been enjoying the traveling to other states. We have just moved to a new home in the country. Texas has treated us very well." The Arndts' address is 410 Patricia Road, Georgetown, TX 78628.

**Jeannine M. (Fronckiewicz) Bardsley** writes: "I married **David S. Bardsley, '84,** in 1986. We are living in Houston, Texas. David is working for Layne Western Co. as a geologist in their Environmental Services Division. I am a software specialist working for Digital Equipment Corp." The Bardsley's address is 13010 Rincor Drive, Houston, TX 77077.

**Lawrence A. Beck and Geri E. Smith, both '83,** write: "We became parents of a tiny savage on April 17, 1987. Her name is Kendall Rosa Beck and she is already being scouted by the NHL and Mensa." Lawrence is financial information coordinator for the U.S. Central Credit Union of Overland Park, Kan. His and Geri's address is 6644 Cherry, Kansas City, MO 64131.

**Louis R. Briscoe** writes: "Lou will be marrying Lisa Meyer this January. He works for Monsanto Agricultural Co. in their research division, St. Louis." Lou's address is 9920 Driver, St. Louis, MO 63114.

**Mark A. Cook** writes: "I recently attended meetings at Texas A&M on highway design. Their campus is nice but not as good as Ol' Rolla and the Ozarks. I'm presently working on redesign of state Highway 121 north of Dallas." Mark is a civil engineer II with Lockwood, Andrews and Newnam. His address is 9050 Markville, No. 821, Dallas, TX 75243.

**Richard W. Gray III** writes: "Still in Texas, working hard but having a great time. I miss St. Pat's and friends, but not the studying. Still single and enjoying it." Richard is a design engineer with Landgraf, Crutcher and Associates Inc. His address is 909 W. 19th St., Odessa, TX 79763.

**Stanley D. Heaton** writes: "I am currently managing the design of two land development projects which will provide major infrastructure improvements to more than 12,000 acres in Southern California. I am also involved in assessment of district proceedings to provide public debt financing for public works projects." Stanley works for the Rancho Pacific Engineering Corp. His and Melissa's address is 28541 Via Princesa C, Murrieta, CA 92362.

**Daniel E. and Martha Higgins** write: "We would like to announce the first addition to our newly constructed home. The stork is expected around the middle of October. Just in time for the St. Louis World Series! My tenure with Storz Instrument Co. continues but now as a manufacturing engineer. There are several alumni in our new subdivision. Our new address is 863 Ivy Trace Drive, St. Louis, MO 63021."

**Donald B. Hillis Jr. and Marilyn K. Angerer** were married Oct. 24, 1987. Don is a senior structural design engineer with the Missouri Department of Highway and Transportation. Their address is 1113 B. Jefferson St., Jefferson City, MO 65101.

**Christopher Johnson** writes: "Enjoying my family!" He is a special agent (OSI) with the U.S. Government. The Johnsons live at 4260-2 Wilmington, Andrews Air Force Base, MD 20335.

**Donald J. Kasperski** writes: "I am a senior design engineer in the advanced tactical fighter engine group (PW 5000) with Pratt and Whitney. My address is 6620 Jupiter Gardens Blvd., Apt. B, Jupiter, FL 33458."

**Frederic W. Kleve Jr.** is now a project administrator with Aramco in Saudi Arabia. He can be reached c/o Aramco, Box 4534, Ras Tanura, 31311, Saudi Arabia.

**John S. Minicky** writes: "I'm back in St. Louis working for McDonnell Douglas as a design engineer. Kathy McCarthy and I are going to be married on July 30, 1988. What a lucky gal!" John's address is 12467 Oberlin Court, No. 3, St. Louis, MO 63146.

**Sherry M. Noonan and Todd R. Waitz** were married Oct. 17, 1987 in Jefferson City, Mo. Todd is a 1984 graduate of Auburn University and is employed by McDonnell Douglas Corp. Sherry is a marketing representative with IBM Corp., St. Louis. Their address is 2399 Pheasant Run Drive, Maryland Heights, MO 63043.

**Thomas L. Riney** writes: "I am currently working as a quality assurance engineer for Union Electric Co. **Suzanne (Cooper), '85,** is working as an environmental engineer for O'Brien and Gere in St. Louis. We reside at 1140 Summit Meadows, Fenton, MO 63026."

**David R. Smith** writes: "Marsha and I are doing well. Our family has grown with two boys born in 1986 and another baby due in February 1988." Dave is casting supervisor for North Star Steel. He and his family live at 240 Rosine, Beaumont, TX 77707.



1987 Rollamo

**Donald A. Trask** writes: "I have completed an MBA at the University of Missouri-Columbia and have taken a position with Union Electric in St. Louis." Donald's address is 2214 Menard, St. Louis, MO 63104.

**Jon W. Treat** writes: "I have taken a job with Boeing in Seattle, Wash. At present, my address is still 7553 Buckingham, Apt. 2C, Clayton, MO 63105."

**Curtis A. and Lisa A. (Stevens) Westrich, both '83,** write: "We are in the process of moving to the suburbs of Chicago. I am being transferred there to help with the opening of a new branch office of Albert Half Associates, the civil consulting firm I work for." The Westrich's current address is 3814 Knight's Bridge, Rowlett, TX 75088.

**Timothy L. White** writes: "I completed my M.S. in mechanical engineering at Stanford in August. I am now back in Indianapolis with Allison Gas Turbines, as an associate engineer, living the easy life once again." Timothy's address is 2601 Fox Harbour Drive, Indianapolis, IN 46227.

### 1984

**David S. Bardsley** writes: "I married **Jeannine M. Fronckiewicz, '83,** in 1986. We are living in Houston, Texas. I'm working for Layne Western Co. as a geologist in their Environmental Services Division. Jeannine is a software specialist working for Digital Equipment Corp." David and Jean live at 13010 Rincor Drive, Houston, TX 77077.

**Larry T. Birkner** writes: "I am working as an electrical and mechanical foreman of steelmaking for National Steel's Granite City division (I maintain a Bof, caster, blooming mill, and mold foundry/strip yard). My wife, Tammy, is expecting a little one." The Birkners live at 3005 Iowa, Granite City, IL 62040.

**Garet W. Denise** writes: "After three long years I have finally finished my M.S. in geotechnical engineering from the University of Colorado at Boulder. I am now employed by Woodward-Clyde in Denver, and am starting to learn all the things they didn't teach you in school." Garet and Mary's address is 1380 S. Washington, Denver, CO 80210.

**Edward R. Ieans** writes: "I am currently working for the City of Independence (Mo.) as a civil engineer I." Edward's address is 5106 Hickory Road, No. 6, Kansas City, MO 64129.

**Terry C. Leeds** writes: "Dana and I have purchased a home and our new address is 720 E. 97th St., Kansas City, MO 64131." Terry is a design engineer with Black and Veatch of Kansas City.

**Doris E. Mann** writes: "I am now a manufacturing methods engineer with McDonnell Douglas in St. Louis, observing manufacturing methods and developing standard data to set target times." Doris's address is 9021C Torchlight, St. Louis, MO 63121.

**Patricia A. McLaughlin** is currently a test engineer with the U.S. Department of the Army, St. Louis, Mo. Her address is 15756 Heathercroft Drive, Chesterfield, MO 63017.

**Steven J. Poppe** writes: "I am serving as nuclear propulsion plant watch officer and reactor electrical division officer. Was on board during recent shock trials, sea trials, shakedown cruise, and commissioning of the Navy's newest nuclear power aircraft carrier, the U.S.S. Theodore Roosevelt." Steve's home address is 1640 Cliffwood Drive, Virginia Beach, VA 23456. He is a Lt. J.G. in the Navy.

**Ronald E. Robbins, '84, '86,** writes: "have been very busy working as a petroleum engineer for Hanna Oil and Gas in Fort Smith, Ark., and also working toward my MBA." Ron's present address is 1246 N. Albert Pike A, Fort Smith, AR 72904.



## Alumni Personals

### 1984 continued

**Ken R. Roberts** writes: "Don't believe any of those jokes about New Jersey. It's really a very nice place, except for all the New York Mets fans." Ken is a member of AT&T's technical staff in Middletown, N.J. He and Jennifer live at 39 Forrest Ave., Rumson, NJ 07760.

**Philip A. Scandura Jr.** writes: "If you want to love—you've got to give a little. If you want faith—you must believe a little. If you want peace—turn your cheek a little. You've got to give—to live.—Sammy Hagar, 1987." Philip is a project engineer with Honeywell—Sperry Aerospace Group in Phoenix. He lives at 14002 N. 49th Ave., #1096, Glendale, AZ 85306.

### 1985

**Greg M. Bolon** writes: "I married Sherrie Dawn Craft on Aug. 8, 1987. Since then I have been transferred to St. Joseph, Mo. as a maintenance superintendent trainee with the Missouri Highway and Transportation Department. Our new address is 4204 N. 31st St., Apt. B, St. Joseph, MO 64506."

**Mark E. Harbaugh** writes: "My wife, Liz, and I have just settled into our new home at 1711 Cimmaron Trail, Louisville, KY 40223. We had our first child this year, Shannon Christine, born on March 9, 1987. I am working for General Electric as a computer-aided manufacturing/engineer design specialist."

**Rodrick W. Lekey** has reported for duty with the Strike Fighter Squadron-125, at the Naval Air Station, Lemoore, Calif. His home address is 661 W. Fargo Ave., Harford, CA 93230.

**Kent W. Lynn** writes: "Doing some interesting work for Strategic Air Command. Recently received my private pilot license and am now working toward an instrument rating. Looking forward to seeing all of the KA's at Syberg's wedding!" Kent is a systems engineer with IBM Corp. of Omaha, Neb. His address is 405 S. 78th St., No. 5, Omaha, NE 68114.

**Mark A. Prude** writes: "On Oct. 10, 1987 I was married to Teresa Lynn Chapman. She works at a Christian school. Plans are to continue to live in Belpre, Ohio for a while." Mark is an engineer with Shell Chemical Co. His and Teresa's address is 731 Sycamore St., Apt. 1000-F, Belpre, OH 45714.

**Suzanne M. (Cooper) Riney** writes: "Thomas, '83, is a quality assurance engineer for Union Electric Co. I am working as an environmental engineer for O'Brien and Gere in St. Louis. We reside at 1140 Summit Meadows, Fenton, MO 63026."

**R. Kirk Randolph** writes: "Monica and I are moving to Beaumont, Texas, at the end of November. APAC is moving me to their APAC Texas Inc., Trotti Thomson Division. We're looking forward to the move (and warmer weather)."

**Peter T. Ruestman** writes: "I have been promoted to production support test engineer for TU Electric and am presently attending Southern Methodist University to obtain my MBA." Pete lives at 9821 Summer Wood Circle, No. 2102, Dallas, TX 75243.

**Peter J. Wazlawek** writes: "Hey, Dave Barton—how about those Cardinals?" Pete is a project engineer for Moog Automotive Inc. of St. Louis. He and Kim live at 6508 Suson Woods, St. Louis, MO 63128.

**Lindle D. Willnow** writes: "I have just started work for Metcalf and Eddy Inc. in Wakefield, Mass. as an engineer in the water engineering section. I finished my master's degree in engineering science from the University College in Dublin, Ireland last summer." Lindle's address is 14 Lemon St., Salem, MA 01970.

**Gregory M. Wilson** writes: "Dorothy and I are now living in Rochester, N.Y. and we love it! I'm working for Mobil Chemical as a product development engineer in their plastics packaging division. Our new address is 14 Boxwood Lane, Apt. 7, Fairport, NY 14450."

**Theresa A. (Ney) Ziegelmeyer** writes: "Married Jim Ziegelmeyer July 11, 1987! Our new address is 2112 19th Ave., Parkersburg, WV 26101, phone (314) 422-1368." Terry is an engineer II with Borg-Warner Chemicals of Washington, W.Va.

### 1986

**Randall C. Bilbrey** writes: "I work at the Command and Control System Office (CCSO) in the AFAMPE Division (Air Force Automated Message Processing) in development of communication software." Randall's home address is 4809 Elmview Drive, Del City, OK 73115.

**John E. Blattel** and **Donna A. Eldred, '87**, were married June 13, 1987. Donna is enrolled in Wal-Mart's Management Training Program in Ava, Mo. John is manufacturing engineer with Emerson Electric in Ava. Their address is Route 2, Box 44, Apt. 5, Mansfield, MO 65704.

**Henry R. Bredenkamp Jr.** writes: "I am a liaison engineer with General Dynamics, presently working on my MRB certification." Henry's address is 5505 Hidden Creek Circle, No. 366, Fort Worth, TX 76109.

**Paul M. Czynsz** writes: "I am working at Martin Marietta Denver Aerospace as a test engineer for propulsion hardware for the Space Launch Systems Group." Paul's address is 8621 W. Hampden Ave., 9-104, Lakewood, CO 80227.

**Jeffrey C. Davies** writes: "I am now well into my second year of work in the metrology department of Singer's Kearfott Guidance and Navigation Division in Little Falls, N.J. Lori Maddaluna and I are now engaged to be married, but have yet to set a date." Jeff's address is 567 McBride Ave., Apt. 3, West Paterson, NJ 07424.

**Elizabeth A. Franklin** writes: "Since graduation I attended Engineer Officer Basic at Fort Belvoir, Va. From there I attended Airborne School at Fort Benning, Ga. My first assignment is with the 92nd Combat Engineer Battalion, Fort Stewart, Ga. I have spent two months in Honduras and will soon go to Ecuador for two months. I'm 'being all I can be!'" Beth's address is 910 Brett Drive, No. 108, Hinesville, GA 31313.

**Christopher J. Hull** writes: "I am back in Missouri again, working in the structural research department at McDonnell Douglas." Chris's address is 2190-D Keeven Lane, Florissant, MO 63031.

**Jeffrey L. Leftwich** married Monica Jean Hiller Sept. 4, 1987. Jeff is a highway designer with the Missouri State Highway and Transportation Department in Springfield, Mo. Their address is 1644 S. Marion, Springfield, MO 65807.

**Patricia A. Lodoly** writes: "I am currently working as an estimator for McDonnell Douglas Astronautics Co. in St. Louis. Patricia lives at 5878 Nottingham, St. Louis, MO 63109.

**Everett A. Moore** writes: "Paige and I spent all summer building a new home. We finally moved in on Oct. 1, 1987. Our new address is 1106 Pleasant Drive, Raymore, MO 64083." Everett is a production engineer with Colgate-Palmolive.

**Richard T. Schmoring** writes: "I am now plant manager of Bi-Angle Chemical Co. Inc. in St. Louis. I oversee manufacturing operations and conduct quality control checks on pigment dispersions which are used for plastic and urethane operations. I will be getting married to Milicent Whited of St. Louis June 18, 1988. She will graduate this December with a B.S. degree in elementary education from the University of Missouri-St. Louis. We both plan to stay in St. Louis." Richard's address is 4141 Ringer Road, St. Louis, MO 63129.

**Bruce R. Yoder** writes: "Married since June 27, 1986; expecting in February 1988." Bruce is an operations trainee with Consolidation Coal Company. His and Sue's address is Route 4, Box 220, Marion, IL 62959.

**Nancy L. Young and Steven H. Dunham, both '86**, were married June 13, 1987. Steve is a body sealing engineer with Ford Motor Co. The Dunhams' address is 11550 Beckley, Building 21, Apt. 202, Belleville, MI 48111.

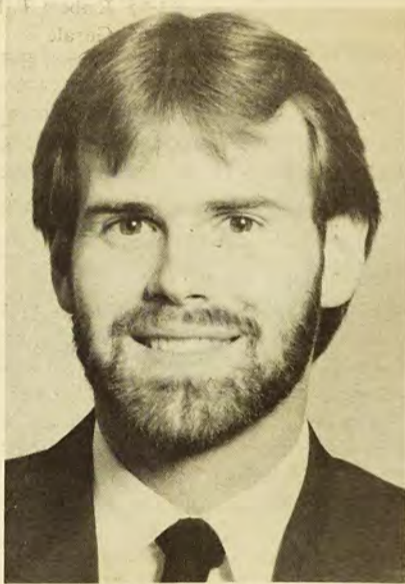
### 1987

Navy Ensign **David J. Bayless** recently completed the Officer Indoctrination School at the Naval Education and Training Center, Newport, R.I. David is now an instructor at the Navy's Nuclear Power School in Orlando, Fla. His permanent address is 2108 Vichy Road, Rolla, MO 65401.

**Monica L. Bishop** and Robert T. Gardner were married Aug. 8, 1987 in Kansas City, Mo. Monica is an engineer with McDonnell Douglas in St. Louis.

**Donna A. Eldred and John E. Blattel, '86**, were married June 13, 1987. Donna is enrolled in Wal-Mart's Management Training Program. John is a manufacturing engineer with Emerson Electric in Ava, Mo. They reside at Route 2, Box 44, Apt. 5, Mansfield, MO 65704.

**Teresa A. Haubrich and Clinton T. Balingier, both '87**, were married Aug. 8, 1987. They have been accepted by the University of Michigan-Ann Arbor where they will be research assistants. Teresa will study the application of artificial intelligence in the nuclear industry. Clinton will study the superconductivity of ceramics. Both will work toward doctorate degrees. Their address is 1839 McIntyre Drive, North Wood IV, Ann Arbor, MI 48105.



**WOODROW W. RIGDON JR.**

**Woodrow W. Rigdon Jr.** has been appointed assistant sales engineer in the Mid-South Region of the Contech Construction Products Inc. He completed Contech's sales training program including the study of manufacturing, design, marketing and installation of engineered products made and distributed by Contech. Woodrow's address is 3976 Blue Spruce, (Downstairs), Lakeland, TN 38002.

**Brian M. Umbach** writes: "I accepted a job with Sundstrand Corp. in Rockford, Ill. as a program engineer in the space systems area." Brian's current address is 5067 Linden Road, No. 4208, Rockford, IL 61109.



# MSM-UMR ALUMNI ASSOCIATION

Telephone (314) 341-4171; (314) 341-4172

## OFFICERS

		Term Expires	
President	Arthur G. Baebler, '55	17 Zinzer Court St. Louis, MO 63123	1988
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Vice President	Alfred J. Buescher, '64	624 Golfview Drive Ballwin, MO 63011	1988
Vice President	J. Robert Patterson, '54	P.O. Box 573, N. Ridge Rd. Sikeston, MO 63801	1988
Vice President	Ernst A. Weinel, '44	1502 West 50 O'Fallon, IL 62269	1988
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Secretary	Matteo A. Coco, '66	7115 Aliceton Ave. Affton, MO 63123	1988
Treasurer	J.L. "Jack" Painter, '50	1700 E. 10th St. Rolla, MO 65401	1988

## DIRECTORS AT LARGE

		Term Expires
John G. Bartel, '52	200 Washington, Hermann, MO 65041	1990
Thor Gjelsteen, '53	7300 W. Stetson Place, #41, Littleton, CO 80123	1988
Paula Hudson Rees, '73	5910 Charlotte, Houston, TX 77005	1989
S. Dale McHenry, '81	4814 Chelsea Way, Acworth, GA 30101	1988
Larry L. Parkinson, '64	2614 Bent Oak Ave., Adrian, MI 49221	1990
Carlos Tiernon, '54	61 Berkshire Lane, Lincolnshire, IL 60015	1989

## Area Zip

Code Numbers	AREA DIRECTORS	Term Expires	
00-14	David J. Blume, '65	11 Musket Trail, Simsbury, CT 06070	1989
15-26	Richard E. Ruetter, '68	420 Penn St., Hollidaysburg, PA 16648	1989
27-36	John K. Olsen, '42	One Beach Drive, Apt. 1502, St. Petersburg, FL 33701	1988
37-45	Russell A. Kamper, '62	5674 Shadow Oaks, Dayton, OH 45440	1989
46-52	Robert L. Seaman, '69	29812 Briarwood Ct., Farmington Hills, MI 48018	1990
53-61	Eugene J. Daily, '36	1114 Lincolnshire, Champaign, IL 61821	1988
62-62	Max A. Burgett, '54	2219 Dewey St., Murphysboro, IL 62966	1990
63-65	Jerome T. Berry, '49	Route 4, Box 419, Rolla, MO 65401	1990
63-65	Robert T. Berry, '72	12716 E. 63rd, Kansas City, MO 64133	1990
63-65	Gerald W. Bersett, '65	150 Kings Drive, Florissant, MO 63034	1989
63-65	Lucien Bolon Jr., '59	902 S. Murray Road, Lee's Summit, MO 64063	1989
63-65	Harold G. Butzer, '47	730 Wicker Lane, Jefferson City, MO 65101	1988
63-65	Mary S. Klorer, '81	9165 Robin Court, St. Louis, MO 63144	1990
63-65	B. Neil Lewis, '58	P.O. Box 627, Kennett, MO 63857	1988
63-65	Robert E. Peppers, '50	P.O. Box 177, Herculaneum, MO 63048	1989
66-72	J. C. "Curt" Killinger, '73	836 Wilshire, Metairie, LA 70005	1990
73-75	Roy A. Wilkens, '66	Williams Cos.-WILTEL, P.O. Box 21348, Tulsa, OK 74121	1988
76-77	James B. Chaney, '48	16218 Chipstead Drive, Spring, TX 77379	1988
78-84	J. Richard Hunt, '50	14913 Highway 82, Carbondale, CO 81623	1989
85-92	Dan Martin, '52	2601 Skyline Drive, Reno, NV 89509	1990
93-99	David N. Peacock, '64	3515 Brunell Drive, Oakland, CA 94602	1988

## COMMITTEE CHAIRMAN

William W. Collins, '50	1608 Wilson Circle, Rolla, MO 65401
Joel F. Loveridge, '39	739 Country Manor Lane, Creve Coeur, MO 63141
Gerald L. Stevenson, '59	Jacobs Engineering Group Inc., P.O. Box 2008, Lakeland, FL 33806
Ronald Tappmeyer, '47	2226 Country Club Drive, Sugar Land, TX 77478
Armin J. Tucker, '40	304 Christy Dr., Rolla, MO 65401

## EXECUTIVE COMMITTEE

		Term Expires
Robert D. Bay, '49	Black & Veatch, 1500 Meadow Lake Parkway Kansas City, MO 64114	1988
James B. McGrath, '49	12425 Balwyck Lane, St. Louis, MO 63131	1992
Lawrence A. Spanier, '50	5 Pettit Drive, Dix Hills, NY 11746	1990

## EX-OFFICIO DIRECTORS

Richard H. Bauer, '52	Missouri Electrochem Inc., 10958 Lin-Valle Drive St. Louis, MO 63123
Robert M. Brackbill, '42	9148 Clearlake Drive, Dallas, TX 75225
Paul T. Dowling, '40	10144 Winding Ridge Road, St. Louis, MO 63124
R. O. Kasten, '43	901 West 114th Terrace, Kansas City, MO 64114
Peter F. Mattei, '37	9954 Holliston Court, St. Louis, MO 63124
Joseph W. Mooney, '39	7383 Westmoreland, University City, MO 63130
Melvin E. Nickel, '38	10601 South Hamilton Ave., Chicago, IL 60643
James W. Stephens, '47	406 E. Third, Lee's Summit, MO 64063

## STAFF

Frank H. Mackaman	Executive Vice-President, MSM-UMR Alumni Association and Vice Chancellor, Office of Alumni/Development Affairs, UM-Rolla
Don Brackhahn	Executive Director, MSM-UMR Alumni Association
Louise Wilson	Executive Staff Assistant, Alumni/Development
Sally White	Editor, MSM ALUMNUS

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The Marching Miners provide music at halftime.



UMR students during a dry spell at the game.



Harry Bossert, '27, Cambridge, Mass.

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