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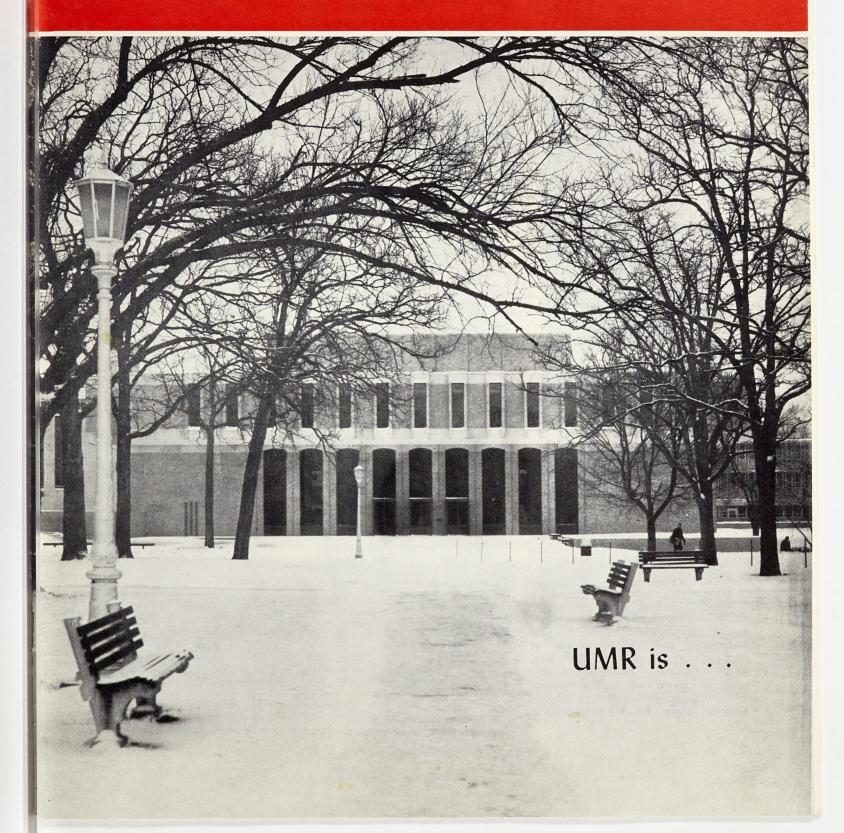
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M SM

University of Missouri-Rolla

DECEMBER 1967



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MSM Alumni Association University of Missouri at Rolla

Rolla, Missouri 65401

Volume 41

DECEMBER 1967

Number 6

ON THE COVER



UMR is . . . a quiet winter evening in front of the new library. This \$2½ million building, which will be opened in the near future, is on the site of old Jackling Gymnasium. This is the first "UMR is . ." Future MSM Alumnus covers in this series will offer a kaleidoscope of both the old and new in the life of a growing university.

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 at Rolla. Subscription price, \$1.50, included in Alumni Dues. Entered as second-class matter October 27, 1926, at Post Office at Rolla, Missouri under the Act of March 3, 1897.

MSM Alumni Association

	OFFICER	RS	Term Expires
President	O. Kasten '43	Armco Steel Corp	
Executive Vice-President Jan	nes J. Murphy '35	Murphy Company	1968 souri 63108
Vice-President Areas 1, 2, 3J. Craig Ellis '38		310 Woods End Road Westfield, New Jersey	1968
Vice-President Areas 4, 5, 6Joseph W. Mooney '39		University City 30, Missouri	
Vice-President Areas 7, 8, 9 William B. Fletcher '34		12081 Smallwood	1968
		'42 .Department of Geological Engine UMR, Rolla, Missouri 65401	
Executive SecretaryFra Editor, "MSM ALUMNUS"	ncis C. Edwards	MSM Alumni Association, Grzyb 9th & Rolla Streets, Rolla, Misso	Building, uri 65401
	DIRECTORS A	T LARGE	
Allan J. Kiesler '40	2068 Coolidge	Place, Schenectady, New York	1968
		Drive, Orlando, Florida	
		ank, Rolla, Missouri	
	AREA DIREC		
Area No. Director		States and Provinces Embraced	
Lawrence A. Spanier '50 1551 Franklin Avenue Mineola, Long Island, New Y	Ne Dis York Pro	w England, N. Y., N. J., East Pa., st. of Columbia, Md., Va., Delaware, ovince of Quebec	1970
2J. O. Ferrell '40 1605 North 10th St. Longview, Texas	S.	Ark., N. C., S. C., La., Miss.,	1969
3O. W. Kamper '35	 Pennsylvania Ky 	nnsylvania, W. Va., Ohio, W. Pa., 7., Tenn., Ind. (Except icago Industrial Area)	1969
4Frank C. Appleyard '37 1209 Milwaukee Ave., Glen	view, Ill. in	Ill., Chicago Industrial Area Indiana, Wisc., Mich., Minn., ovince of Ontario	1969
5Richard H. Bauer '52	S.	III., E. Mo., N. Ark.	1970
6Bennett D. Howell '50 5518 South 66th East Avenu Tulsa, Oklahoma		wa, W. Mo., Nebr., Kan., Okla	1968
7Robert M. Brackbill '42 Texas Pacific Oil Company Box 747, Dallas, Texas	Te	xas, Arizona, New Mexico	1970
8F. W. Heiser '39 16 Viking Drive Englewood, Colorado	Wy	a., Montana, N. D., S. D., 70., Colo., Nev., Utah, ovinces of Manitoba, Sask., Alberta	
9E. Murray Schmidt '49 3353 Mildred Lane Lafayette, California 94549	Ca	aska, Washington, Oregon,lifornia, Hawaii	1970
	EX-OFFICIO DI	RECTORS	

H. H. Hartzell '06 1301 Cleveland,
Baxter Springs, Kansas
Dr. E. W. Engelmann '11 1048 E. 1700 S. Salt Lake City, Utah
C. G. Stifel '16 8201 Maryland Avenue, St. Louis, Missouri

No. 1 Briar Oak, Ladue, Missouri Dr. Karl F. Hasselmann '25 1203 Esperson Building, Houston, Texas

F. C. Schneeberger '25

Dr. Mervin J. Kelly '14 2 Windemer Terrace, Short Hills, New Jersey

Harry S. Pence '23 17 Cambridge Ct., Glendale, Missouri Melvin E. Nickel '38 10601 South Hamilton Avenue, Chicago, Illinois

Paul T. Dowling '40 139 Frontenac Forest, St. Louis, Missouri

James W. Stephens '47 406 East Third, Lee's Summit, Missouri

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Awards Announced at Homecoming Banquet

The Awards Banquet during the 1967 Homecoming was held in the Crystal Ballroom at the Carney Manor Inn. This new facility is large enough to accommodate the increased attendance at this function.

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The honor guests at the banquet were Mr. Oliver B. Ferguson, President of the Board of Curators and Mrs. Ferguson; and Dr. John C. Weaver, President of the University of Missouri, and Mrs. Weaver. Dr. Weaver was given an honorary membership in the MSM Alumni Association. This

was conferred by James J. Murphy, master of ceremonies.

Two awards of \$250.00 each, from the Alumni Association, were presented to Chancellor Baker who will in turn present them to an Outstanding Professor in Research and an Outstanding Professor in Teaching. These recipients will be chosen later in the academic year by the faculty and student body.

The faculty members who received these awards last year were introduced at the banquet. They were Dr. Martin E. Straumanis, Professor of Materials Research, recognized for his research and Dr. Ward R. Malisch, Assistant Professor of Civil Engineering for his teaching.



Oliver Ferguson

Another award, a check for \$500.00 representing a Grant-in-Aid for the Athletic Department was presented to Billy Key, Director of Athletics. This is the second year the Alumni Association has assisted the athletic program in this amount.



Dr. Martin E. Straumanis



President John C. Weaver receives an honorary membership in the MSM Alumni Association, University of Missouri-Rolla, from James J. Murphy, Executive Vice President of the Alumni Association.

December 1967



Dr. Ward R. Malisch, Assistant Professor of Civil Engineering, recipient of the Alumni Association's Award to an Outstanding Professor in Teaching in 1967.

Math Ph. D. Approved

The Board of Curators has approved a new program leading to the Doctor of Philosophy degree in Mathematics at UMR.

Chancellor Baker advises that under the new program, starting with the opening of the 1967 fall semester, the first Ph.D. in Mathematics will be awarded in the spring of 1969. The new program is being initiated by utilizing present staff and facilities, although completion of the new library is an important aid to its implementation.

"The University at Rolla has had considerable strength in the field of applied mathematics and computer science for some time as these specialties are vitally related to advanced work in engineering," Chancellor Baker said.

He added that "these specialties have been recognized by the National Science Foundation in that the computer program at Rolla has received a sizable NSF grant."



Chancellor Baker received the check from James J. Murphy, Executive Vice President of the Alumni Association for the stipend to an Outstanding Professor in Research and an Outstanding Professor in Teaching.



James J. Murphy presents Billy Key, Director of Athletics, with a \$500 check for grant-in-aid to the athletic department.

J. Craig Ellis Receives Alumni Merit Citation

J. Craig Ellis '38, of Muncie, Indiana, was awarded a citation of merit by the MSM Alumni Association during the 1967 homecoming festivities.

Ellis received the citation at the annual awards banquet of the association. He is the only UMR alumnus to receive the honor this year.

Ellis was chosen for the award by association officers for his outstand-

ing service to the school and its alumni. The citation read "in a recognition of loyal devotion which has been rendered freely and unselfishly to the program of an educational ideal."

Ellis served from 1959 until this year as vice president of the 20-state eastern United States area of the association. In this position, he helped organize alumni clubs, arranged alum-

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James J. Murphy (left), Executive Vice President of the Alumni Association, presents J. Craig Ellis '38, with the Association's Citation of Merit Award. Mrs. Ellis was present for the ceremonies.

ni meetings and coordinated the activities of the area alumni. He has served as president of the north New Jersey section and as an officer of the New York City section of the association.

Ellis is coordinator for international sales of the Maxon Premix Burner Company of Muncie, Ind. He has been

Directors Elected of

At the fall election of Directors of the Alumni Association, four areas chose their directors for three-year terms terminating in 1970.

The Directors elected were as follows: Lawrence A. Spanier '50, Mineola, Long Island, New York, incumbent, was chosen for Area No. 1. Richard H. Bauer '52, 5 Sappington Acres, St. Louis, Missouri, incumbent, will serve again as Director of Area No. 5.

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Robert M. Brackbill '42, Texas Pacific Oil Company, Dallas, Texas, incumbent, is the Director for Area No. 7, and E, Murray Schmidt '49, Lafayette, California, is a new member of the board and will be the Director of Area No. 9.

Murray has been active in alumni activities in the San Francisco Bay Area for a number of years. He is a sales engineer for the Unimark Corporation, San Ramon, California.

In 1968, the terms of office of ten December 1967

with the company since 1950 and has also served as manager of the New York office.

He was graduated from UMR in 1938 with a B.S. degree in mechanical engineering. He is a member of the American Society of Mechanical Engineers and the Tau Beta Pi and Phi Kappa Phi honoraries.

officers and directors expire including the president, executive vice presi-



E. Murray Schmidt

dent, and the three area vice presidents. The election is held by mail ballots sent to the Association's membership.

Heads Campaign at K.C.

John A. Walker, general superintendent of the Kansas City Works of Armco Steel Corporation, BS Metallurgical Engineering 1950, has been named chairman of the Greater Kansas City Alumni Campaign for the Centennial Challenge Program.



John A. Walker

National Chairman, James J. Murphy, St. Louis, said that Walker's addition "to the growing ranks of outstanding alumni who lead the Centennial effort assures UMR of excellent representation before about 400 alumni who reside in the Kansas City area."

Walker was a World War II Air Force pilot and has been active in committee work for ASTM and AISI.

Monthly Alumní Luncheons

National Capitol Section
First Tuesday of Every Month
at Black Saddle
709 18th St. N. W.
Washington, D. C.
J. B. Toomey may be contacted
at KI 8-8300

The Colorado Section

First Tuesday of Every Month
at the
Albany Hotel, Denver, Colo.
12:00 Noon

Jim Weber '53 may be contacted
at 534-0424 Ext. 303

ALUMNI SECTIONS

Oklahoma City Area

George E. Fort '40, made the arrangements to organize an alumni section in Oklahoma City, Oklahoma. A group of alumni gathered in the Balinese Room of the Skirvin Hotel, October 31, 1967. Halloween may have deterred the attendance but the group is now underway and hope to develop in a very active section. Ike Edwards was present from the campus.

Among those present were: Mr. and Mrs. W. W. Coghill '33; Mr. Ike Edwards; Mr. and Mrs. George E. Fort '40; Mr. and Mrs. Harold K. Ihrig '30; Mr. Roger Knopp '49; Mr. and Mrs. Richard W. Love '39; Mr. and Mrs. James F. McDonald '33; Pat McDonald; Mr. and Mrs. John C. Miller; Mr. and Mrs. Bob Schoenthaler '41 and Mr. Lloyd C. Schumann '43.

Detroit Area

The Detroit Alumni Section held their winter meeting, January 9, 1968, in the Amber Room of the Chambertin House. This was during the annual meeting of the Society of Automotive Engineers in Detroit and a few alumni who were in Detroit attending this national meeting also attended the alumni dinner.

George Baumgartner '56, the section's president, planned and arranged this meeting which brought out some forty alumni and guests. Chancellor Baker, Dr. Bill Gatley, Dr. Harry Sauer and Ike Edwards were present from the UMR campus. Dr. Baker spoke to the group concerning the school, its development and future plans.

George Baumgartner did such a good job as president during the past year that the group reelected him for another term.

Among those present were: Chancellor Merl Baker; Mr. and Mrs. G. Baumgartner '56; Mr. Bill Book '66; Mr. and Mrs. W. H. Coddington '35; Mr. and Mrs. Gene C. Fadler '62;

Mr. and Mrs. R. G. Frakes '57; Mr. and Mrs. R. S. Gabrielse '51; Mr. and Mrs. Robert Ganninger '59; Dr. Bill Gatley; Mr. and Mrs. Ronald F. Gillham '56; Mr. George R. Gustafson '60; Mr. and Mrs. Douglas R. Kline '61.

Mr. and Mrs. Larry N. McKinnis '47; Mr. E. Paul Remmers '56; Mr. and Mrs. Ted Robertson '65; Mr. and Mrs. Don Rueh '61; Mr. Harry Sauer '56; Mr. and Mrs. Charles W. Saussele '56; Mr. and Mrs. Dennis Schneider '60; Mr. and Mrs. Richard H. Schulke, Jr. '63; Mr. G. L. Scofield '39 and Mr. and Mrs. Floyd H. Uthe '66.

Dayton-Cincinnati Area

The alumni in the Dayton-Cincinnati area have organized a new alumni section to accommodate alumni in Ohio, Indiana and Kentucky. H. W. Kosten '60; Michael Browne '67; Peter Balser '65 and C. J. Schmitou '56 planned the organization of the section and their first meeting was held December 8th. The setting was at the Golden Lamb, Ohio's oldest inn, in Lebanon, Ohio.

Professor Robert Wolf '51, Professor of Metallurgical Engineering and Ike Edwards, from the campus, were present for this occasion which attracted some 50 alumni, wives and guests.

Peter Balser was the master of ceremonies and accepted the charter presented by Ike Edwards. Professor Wolf spoke to the group relating some of the purposes and accomplishments of alumni sections.

Among those present were: Mr. and Mrs. J. B. Austin '60; Mr. and Mrs. Peter A. Balser '65; D. Wallace Breuer '50; Mr. and Mrs. Will Brewer '32; Mr. and Mrs. Michael Browne '67; Everett J. Collier '55; George W. Comanich '51; Mr. and Mrs. J. Craig Ellis '38; Mr. and Mrs. W. A. Jacobs '64; Mr. and Mrs. J. C. Kennedy '50; Mr. and Mrs. H. W. Kosten '60.

Mr. and Mrs. H. W. Kuhlman '38; Mr. and Mrs. David Law '59; Mr. and Mrs. Richard H. Okenfuss '58; Mr. and Mrs. Lee Ousley '63; Mr. and Mrs. R. H. Rogers '38; Mr. and Mrs. Dale R. Schaeffer '67; Mr. and Mrs. C. J. Schmittou '56; Mr. and Mrs. Roger Schrivner '52; Mr. and Mrs. Robert W. Shields '51; Mr. and Mrs. E. Kenneth Siroky '58; Mr. and Mrs. Glen W. Sutton '49; Mr. and Mrs. W. W. Turner '64; Mr. and Mrs. Donald R. Walter '56 and Mr. and Mrs. James A. Warner '64.

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The Association deeply appreciates the work and efforts of these alumni in establishing an alumni group in an area where there is a large number of alumni and it is believed that the alumni will enjoy getting together two or three times a year.

Houston Area

The Houston, Texas area alumni met for a pre-Christmas gathering at the Geo Club in Houston. New section officers were elected for the coming year. They are: Dan Martin '52, President; James R. Paul '43, Vice President and Patrick G. Knoll '63, Secretary. They expect to rejuvenate the Section and make the most active group in the Association. Ike Edwards attended the meeting and Chancellor Baker was planning to be present but it was necessary to change plans at the last minute. The Section made plans for a reception for Chancellor and Mrs. Baker when they are in Houston on January 15.

Among those present were: Mr. and Mrs. Irwin W. Alcorn '22; Mr. and Mrs. Rex Alford '40; Mr. Parviz, Ata-Abadi '67; Mr. and Mrs. Vince Castelli '50; Mr. and Mrs. James B. Chaney '48; Mr. J. R. Hunt '50; Mr. P. G. Knoll '62; Mr. and Mrs. Dan Martin '52; Mr. and Mrs. Phil F. Martyn '25; Mr. and Mrs. Harland Miller; Mr. and Mrs. Jim Paul '43; Mr. Andrew F. Potts '67; Mr. and Mrs. R. A. Tappmeyer '47; Mr. Eugene W. Warren '50 and Mr. and Mrs. Gene Warren '50.

Webb City Lawyer V-President of Curators

William C. Myers, Jr., appointed to the Board of Curators in 1965, and elected vice president in 1967, is a Webb City lawyer who received his LL.B degree from the University of Missouri in 1949. Like several other



William C. Myers, Jr.

members of the Board, his education was interrupted by World War II. He entered the University of Missouri

in 1940. He was with the U.S. Army Corps of Engineers as a Labor Relations Officer in 1941 and in the U.S. Army Air Corps from 1942 to 1945. He was a pilot in the Eighth Air Force in the European Theater. Returning to the campus in 1945, he resumed his studies as well as the job at the University Book Store which he held throughout his college career.

Myers was a Missouri state representative in 1955-56 and prosecuting attorney of Jasper County in 1957-60.

His memberships in professional and civic organizations include: American Bar Association, Missouri Bar Association, National Trial Lawyers Association, U.S. Chamber of Commerce, Webb City Chamber of Commerce (board of directors). He has been on the board of directors of the Oakhill Memorial Hospital since 1960, and is an elder in the Presbyterian Church.

Myers and the former Carlyn Merryman, also a graduate of the University of Missouri, were married in 1947. They have five children: Lisa Merryman, Lynn Elizabeth, Leslie Reese, Gretchen Hardy, and Ann Catherine.

Financial Aids for Students

Students who want an education can get it - even if they can't afford it.

At. U.M.R. students who have the potential for university study but can't quite swing the expense, can make it anyway. And they have about seven ways to do it.

A student at Rolla who is a Missouri resident can expect to get by on about \$1,443 for two semesters of study. This will go for room (\$290), board (\$560), fees (\$393), textbooks (\$65), drawing instruments (\$35), laundry and cleaning (\$50), and miscellaneous (\$50). For out-of-state students the cost is the same, plus about another \$500 for non-resident tuition.

If this is more than an individual can afford, students can apply for financial aid. One form of help at UMR is the scholarship – awarded to students chosen for the most part by faculty committees on the basis of their academic achievement or potential. Often such qualities as leadership, service and post-college goals are also considered. Sometimes specific requirements must be set as stated by the scholarship donor. In all cases, the scholarships need not be repaid and many may be renewed year after year.

About 150 scholarships of varying amounts are offered to students at the University each year. About \$77,000 was available for scholarships during this academic year. In addition, there are 401 Board of Curators scholarship-loans which require one half of the fund to be repaid by the student after he has been graduated. Payment schedules are quite liberal, however. A few groups on campus, such as professional societies, offer prizes and awards to outstanding students in their areas.

A special program provided by the United States Office of Education is the education opportunity grants. A total of \$64,800 is available at UMR this year for grants up to \$800 per academic year. These are available to those with exceptional financial need.

There are 22 loan funds available on campus. These are provided by the

Alumni Board of Directors



Members of the Board of Directors who attended the annual meeting, October 20, on the UMR campus. Left to right, back row: Joseph W. Mooney '39, Vice President Areas 1, 2, 3; Robert Brackbill '42, Director Area 7; Lawrence A. Spanier '50, Director Area 1; Richard H. Bauer '52, Director Area 5; Ike Edwards, Executive Secretary. Left to right, front row: Rex Williams '31, Director at Large; James O. Farrell '40, Director Area 2; James J. Murphy '35, Executive Vice President; O. W. Kamper '35, Director Area 3; Harry S. Pence '23, Ex-officio Director; Chancellor Merl Baker. Paul T. Dowling '40, Ex-officio Director attended the meeting but was not present when the picture was taken.

December 1967

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alumni association and various private, organizational and governmental sources.

Loans vary in amount and are usually provided with little or no interest. Students in most cases are allowed to repay the loans after they have been graduated and are settled in a job. Recipients are usually selected by a faculty committee on the basis of their academic ability, service or their postgraduate goals. UMR has about \$200,000 available each year for student loans.

Graduate students in most instances do research on a project as part of their thesis work. Many of these students receive stipends from grants supporting this research. Federal and industrial agencies contributed more than \$116,000 for graduate research assist-

ants at UMR during the 1966-67 school year.

Other advanced students teach as graduate assistants. During the 1966-67 school year more than \$358,000 in state funds was available to support these students. Graduate students may also hold fellowships and traineeships. More than \$153,000 from federal sources was available for traineeships and more than \$32,000 from federal and industrial sources was available for fellowships at UMR during the 1966-67 academic year.

Over 300 UMR students hold part time jobs while attending the University. In some cases, students work their way through college by paying all expenses with summer jobs or part time jobs during the academic year.

A college work-study program pro-

vides funds from the U.S. Office of Education (UMR had \$50,625 this year) to pay students for part time work done at the University. Students work as part time clerks and secretaries and at various other jobs on campus.

A special program has been in effect for several years to provide students with extra funds and experience working in their field. The cooperative engineering-science training program allows students to alternate semesters of study at the University with semesters of work in industry.

A UMR office coordinates interviews for students and industries. In many cases, students can earn enough to finance their entire school career. Although it is possible for students to finish school in the average amount of time, co-op students usually require one additional semester to obtain a degree.

Class Reunions

Class of 1922 . .



Foreground, clockwise: E. G. "Ted" Machin, Mrs. Machin, Walker E. Case, Mrs. Case, Mrs. Lapee, Roland J. Lapee, J. C. Salmon, Jr., Dr. H. R. Hanley '01, Professor Emeritus of Metallurgical Engineering, A. A. Boyle, Mrs. Boyle, W. S. Frame, Mrs. Frame.

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Class of 1927 . . .



Seated, left to right: Mrs. Barnard, Al Barnard, Mrs. Sievers, E. R. Sievers. Standing, left to right: R. M. Rankin, E. H. Cook, Mrs. Cook, Mrs. Nadine Kenney, James F. Smith.

. . . Class of 1932



Seated, left to right: Art Hoeman, Mrs. Hoeman, O. K. Lay, Mrs. Lay, Robert Rhoades, Mrs. Crawford, E. O. Crawford, Homer Thompson, Mrs. Thompson, Floyd Macklin. Standing, left to right: Art Schwarz, Mrs. Schwarz, Bob Riggs, Mrs. Riggs, Mrs. Kassay, Andy Kassay, Mrs. Horn, Rex Horn, Mrs. Macklin. December 1967

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Class of 1937 . . .

Class Reunions



Left to right: Col. (Ret.) Fred F. Vogt, Mrs. Vogt, Mrs. Grimm, R. D. Grimm, Mrs. Jarrett, Bob Jarrett, Peter Mattei.

. . . Class of 1942



Standing, left to right: Anthony Homyk, Mrs. Homyk, John Love, Mrs. Love, Mr. Klinkerfuss, Florence Davis Klinkerfuss, Elmer Sandhaus, Mrs. Sandhaus, Mrs. Axmacher, George Axmacher, Mrs. Burberry, Roland S. Burberry, Mrs. Martin, Kent W. Martin, Mrs. Schneider, Edward P. Schneider, Jr., William Busch, Thomas Beveridge, Mrs. Dawson, Lu Gene Dawson, Robert Pohl, Dr. Muilenburg. Seated, left to right: Joseph Forinash, Mrs. Forinash, Oscar Muskopf, William F. McConnell, Mrs. Brackbill, Harold Krueger, Robert Brackbill, Mrs. Paul, Mrs. Gottschalk, Gene Gottschalk, Fred Paul, Vernon McGhee, Mrs. Beveriáge, Mrs. McGhee.

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Class of 1947 . . .

Class Reunions



Front center, clockwise: Dr. M. R. Strunk, Thomas Ryan, W. H. Hellwege, Jr., Mrs. Hellwege, Donald Koch, Walter Liddell, Mrs. Liddell, Mrs. M. R. Strunk, Mrs. Schaeffer, Rodney A. Schaeffer.

. . . Class of 1952



Center of table, foreground, left to right: Rick Balfour, Wallace Ferguson, Mrs. Ferguson, Lela M. Balfour, Franklin Moore, Mrs. Barnard, Paul G. Barnard, John Finkland, Mrs. Finkland.

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Class of 1957 . . .

Class Reunions



Seated, left to right: Ralph C. Hilmes, Mrs. Hilmes, Richard L. Pendleton, Ed Beckemeyer, Mrs. Beckemeyer, Dr. Robert L. Wright, Mrs. Wright, Mrs. Bill "Pat" Atchley. Standing, left to right: Louis E. Astroth, Mrs. Astroth, Mrs. Schilich, Ardell J. Schlich, Guy L. Wiggs, Mrs. Wiggs.

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Seated, left to right: B. A. Rowley, Mrs. Rowley, Mrs. Willyard, Don L. Willyard, James Guest, Mrs. Guest. Standing, left to right: J. M. Frauenhoffer, Jr., Mrs. Frauenhoffer, Mrs. Faenger, Robert A. Faenger.

AN EXCHANGE OF LETTERS

The October, 1967, issue of THE ALUMNUS carried an article, 'Givers and Takers' which resulted in an exchange of letters between Alumnus Hans Schmoldt and Alumni Executive Secretary Francis C. 'Ike' Edwards. The article is reprinted below; the letters on following pages, as a service to all MSM alumni:

Givers and Takers

... a look at the educated American

Some leaders in higher education have proposed that every student be permitted to borrow enough money to pay his way through school and to repay some of it by obligating a percentage of his income for life to the lending agency.

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The proposal is made seriously. Somewhere during recent history men responsible for balancing the books of colleges and universities discovered that they could not continue to give education away without someone – either legislators and taxpayers, or parents and philanthropists – paying for it.

The number of students attending universities prior to the end of World War II was small enough to allow existing resources to meet demands. Not so today. Both the numbers to be taught and the volume of new knowledge to be exposed contribute to the financial nightmare faced by the university.

Life indenture to pay for higher education is one way to assure that those who have taken advantage of advanced learning will pay for that privilege.

It would, of course, be much nicer if those who benefited from higher education *voluntarily* repaid some of the investment made in them by others. It would be much more pleasant if those

who have been *takers* would become *givers* so that future generations might have the privilege of taking, also.

Certainly, someone – the taxpayer or the philanthropist or both – had given generously to allow you to get a degree. Everyone who has attended a college or university in this century has been the beneficiary of someone else's generosity. No one has paid the full cost of his education. Everyone, regardless of his school, has been "on scholarship."

It is hard to envision any student graduating from a college or university today who is unable to show his appreciation for the privilege of higher education by making gifts to his school. Even military service is a shallow excuse, for it is not necessary to make large gifts to exhibit a mature responsibility for the value of being educated.

Each alumnus must consider the relative value of those things important to his life and happiness. No young man would expect a new car or a color television set without paying for it; yet, many expect several thousand dollars to be spent preparing them for a more affluent life without a thought to replacing even a few dollars of that amount voluntarily!

The older alumnus has had an opportunity to capitalize upon his advanced education and has a proportionately greater responsibility for helping to repay the investment made by others in his academic preparation for life.

Would every alumnus "repay" only a fraction of the funds invested by others in his education, there would be no need for proposals that every well-educated American should be in debt throughout his entire productive life!

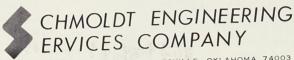
Every person who has attended or who has graduated an institution of higher learning in this country should give – in the measure of his ability to give and the value he places upon his privilege of being educated – to the financial needs of his school and of his alumni association.

It is an act of mature responsibility in our society.

Or, maybe today's alumnus – now that he has *taken* his – really doesn't care whether his children and his grand-children are indentured for life because there aren't enough *givers*.

There must be as many Givers as there are Takers if higher education is to survive the challenge of educating coming generations in the traditional manner.

December 1967



3305 WOODLAND ROAD B BARTLESVILLE, OKLAHOMA 74003

December 22, 1967

Mr. F. C. Edwards - Executive Secretary MSM Alumni Association Grzyb Building Rolla, Missouri 65401

Dear Ike:

Your thought stimulating article in the October issue of the MSM Alumnus, entitled, "Givers and Takers," struck me right in the left ventricle, and then pierced my pocket book exactly on target.

I have to confess that I have never known, and for that matter still don't know exactly how the private and state colleges are financed. Those of us who have been "taking," and who have accepted the privilege of higher education, certainly owe much soul-searching thought to "giving." I don't believe that there are very many of our alumni who are really aware of the extent that the buildings on campus, the fixtures and equipment within those buildings, and the faculty behind the lecterns of those hallowed halls are paid by tax funds, philanthropic gifts, or individual contribution.

We do know that Uncle Sam sends us annual tax bills, as do our state governments, our county governments, and our city governments. The consequences of not meeting these obligations, forthwith, are well known to all of us. We also receive regular billing from our mortgage holders, our insurance companies, our utility companies, and our merchants. Other definite consequences are provided if these obligations are not met promptly.

But beyond tax support, and occasional generous corporate or foundation grants, which are publicized in the Alumnus, it didn't really occur to me that every single one of us who has been to Rolla has his own very real personal obligation to his Alma Mater, beyond his nominal Alumni Association membership dues.

Your article has made it very clear to all of us who have been 'takers,' and who have benefited from our gifts of higher education, that we have a definite moral obligation to be financial "givers," as great as any of our law defined obligations.

I, for one, admit to myself that I have been a "taker," and that my life has been enriched financially, materially, and spiritually through my gift of education and training received at Rolla. I can imagine what my limited station in life might be without this gift.

(Continued)

Therefore, I now want to assume my responsibility as a "giver," and enclose my check in the amount of \$1,000.00.

Ike, I have already admitted that "I ain't smart" in how to run a university, I have no special interest projects to be researched, and I have no particular student to assist. Please just pass this check on to the front office with instructions that it be used to the best advantage of my great Alma Mater in sincere appreciation of a grateful "taker."

Very truly yours,

Hans Schmoldt '44





MSM ALUMNI ASSOCIATION

University of Missouri at Rolla

ROLLA, MISSOURI 65401

December 29, 1967

Mr. Hans Schmoldt Schmoldt Engineering Services Company 3305 Woodland Road Bartlesville, Oklahoma

Dear Hans:

Many, many thanks for your generous gift of \$1,000.00 to the school. It will be used for the University Center, sometimes known as a Student Union, which has priority in our Centennial Campaign. The expansion of the present facility is badly needed and can only be constructed from funds other than state appropriated. As you know, the community offers limited facilities for students recreation and extracurricular activities and the type of school we have makes it most important that this facet of students life be met. The enclosed brochure will give you information concerning the proposed Center. We hope to raise \$1,000,000 from private sources. This will permit a \$3,000,000 addition. The remaining \$2,000,000 can be obtained from a loan with the Federal Housing Administration.

Hans, your letter transmitting the check was a jewel. Would you permit us to use (Continued)

it in the next issue of the MSM Alumnus? Such is needed in the promotion of our program and no one could have written their sentiments more vividly.

Again, many thanks for the gift and outstanding letter.

Your check was turned over to the school and they will send you a receipt for tax purposes.

As always, we send our best wishes and personal regards to you and Jimmie.

Sincerely,

Francis C. Edwards Executive Secretary



Mr. F. C. Edwards - Executive Secretary MSM Alumni Association Grzyb Building Rolla, Missouri 65401

January 5, 1968

Thanks for the bouquet. If my reaction to your article was appreciated, as you said that it was, then I also want to express my appreciation to you for your nice letter of acknowledgement.

Your enclosure of the brochure describing the needed UMR University Center has now struck me in the right auricle. My supplemental check in the amount of \$800.00 is attached, to make a total of \$1800.00 for my three shares in the project.

Ike, I don't in any way classify myself as a philanthropist; I am right at the peak of personal effort, and these contributions represent personal earnings. But, I do work hard at my job, I am getting prepared to put my three kids through college, and I do have a 1964 Pontiac that I would like to trade for something new.

However, if it were not for that Rolla Sheepskin laying in the bottom of my trunk, I don't think that all three kids would be going to college, and I might be real happy to be driving a lesser car. I now appreciate the opportunity to send my three children to college, and by the same token, I now recognize my responsibility to help make these institutions available to them.

In 1963 I donated my eyes to the Lions Club Eye Bank, in 1966 I donated my body

(Continued)

to the Oklahoma University Medical School, and in 1968 I am going to send my heart to Dr. Barnard in South Africa before you get another shot at it. I'll give all, but leave the pocket book alone - it can't stand any more ricochets.

Very truly yours,

PS: If you think that the letter might point the finger of responsibility at a few more "takers," you are welcome to use it as you see fit to best advantage of my Alma Mater.





MSM ALUMNI ASSOCIATION

University of Missouri at Rolla

ROLLA, MISSOURI 65401

January 8, 1968

Mr. Hans Schmoldt Schmoldt Engineering Services Compny 3305 Woodland Road Bartlesville, Okalhoma

Dear Hans:

You are right. We haven't informed our alumni about where the Rolla Campus gets its operational funds. Nor have we talked much about the fact that a tax-assisted school needs funds for programs and facilities which cannot be underwritten by tax money.

Here is the operational fund picture:

Current income for the fiscal year ending June 30, 1967, showed these sources:

Student Fees State Support Federal Assistance	\$2,003,825.68 5,191,851.48 1,327,875.47	19.9% 51.6% 13.2%
Sales, Services & Endowment Earnings Auxiliary Enterprises PRIVATE GIVING	214,368.48 973,426.92 343,558.22	2.1% 9.7% 3.5%
Fotal	\$10,054,906.25	100.0%

That's the operational side of financial needs. What about needs and opportunities beyond this 'bread and butter?'

(Continued)

Excellent schools are never merely dormant, moving from year to year in mechanical function. The excellent schools have enough muscle – in facilities, personnel and money – to grasp the opportunities which allow them to serve their students, to do research, and to perform services better than before. This vitality beyond 'bread and butter needs often is called 'the margin of excellence.''

At the Rolla Campus, the Centennial Program seeks \$69 million from state, federal and private sources beyond normal operating funds to give development thrust to your school. Of this amount, about \$7½ million are expected from private giving.

The Centennial Challenge Program was launched in 1965. As of January 1, 1968, the Program has received, by source:

State	\$ 6,581,000
Federal	6,127,922
PRIVATE	844,842
Total	\$13,553,764

Hans, you can see we have some distance to go to make up our "private giving" portion of the Centennial Program. We can do it!

Every alumnus will have an *opportunity* to give and to pledge his support to the continuing greatness of his school.

Others are being asked to give also. Corporations, foundations, individuals all are being seen by volunteers working for the Rolla Campus.

Not every alumnus has the ability to give; indeed, not every alumnus has the desire to give. But there will be many, like yourself, who desire to be "givers" as well as "takers," and who will support the Program each in his own measure of ability.

Gifts are used for student aid, faculty enhancement, research and research equipment, campus programs and for construction which cannot be underwritten by tax funds. One of the priority projects is the construction of an adequate university center (student union) to replace the current, over-crowded one.

I hope this letter answers some of your questions, Hans. Your generosity and willingness to put your shoulder to the wheel have been inspiring to all of us working for the greater future of your school. Perhaps your leadership will cause many thousands of your fellow alumni to join you as a "giver."

Sincerely,

Francis C. Edwards Executive Secretary Your

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HOW YOU CAN BECOME A "GIVER"

Of the 13,000 living alumni of the Rolla Campus, many now are "givers" to both the Association Annual Fund and the Centennial Challenge Program. Should you have the desire to join those who are helping support the Association's annual budget and the future of your school, the following will be of interest:

To Contribute to the Alumni Association: Make your check payable to the MSM Alumni Association of UMR and send it along with the card on the left (upon which you have noted late information about yourself) to MSM Alumni Association, University of Missouri at Rolla, Rolla, Missouri, 65401.

To Contribute to the Centennial Challenge Program: Make your commitment of support known by completing the pledge card below, showing the full amount of the commitment you desire to make and how you anticipate the greatest convenience in making gifts to total that commitment. Then, approve the information by your signature and mail the card to Director, Centennial Challenge Program, 900A Rolla Street, Rolla, Missouri 65401. The commitment of every Rolla alumnus is needed now to allow your school to move forward into opportunities open to it!

WAYS TO GIVE

Your gifts to your school are deductible up to 30% of your adjusted gross income (5% for corporations). Your gifts may be in cash or any form of property such as securities, real estate, insurance policies, income rights, various trust arrangements, and so on. For the Centennial Program, your checks should be made payable to The University of Missouri at Rolla. You may designate a special use for your gift if you choose. WHAT SHOULD AN ALUMNUS GIVE? What he can afford to give and what he desires to give! Frameable, artist-designed Priority Share Certificates are given those whose total pledge amounts to \$300, \$600, \$900, \$1200, \$1500 or \$1800. Amounts larger may qualify the donor to commemorate some part of the University Center. Please write and ask for the brochure, "Commemorative Opportunities in The University Center."

The Pledge . . .

By making a five year pledge, your gift to the University of Missouri at Rolla can be greater than you might think. For example:

60 monthly payments of	5 annual payments of	Total pledge
\$ 5	\$ 60	\$ 300
\$ 10	\$ 120	\$ 600
\$ 15	\$ 180	\$ 900
\$ 20	\$ 240	\$ 1,200
\$ 25	\$ 300	\$ 1,500
\$ 30	\$ 360	\$ 1,800
\$ 50	\$ 600	\$ 3,000
\$ 75	\$ 900	\$ 4,500
\$100	\$1,200	\$ 6,000
\$125	\$1,500	\$ 7,500
	\$2,000	\$10,000
	\$5,000	\$25,000

December 1967

Fourth Generation Co-ed on UMR Campus Has Cosmopolitan Background



Christie Arras, UMR freshman whose parents now live in Lima, Peru, is welcomed by an old friend, Francisco Benavides, junior civil engineering student from Lima. Christie's mother, Jean Lloyd Arras, and Frank's father, Oscar, both UMR graduates, knew each other as students.

An 18-year-old girl who has lived overseas all her life, and had a choice of a college in the States that offers all sorts of fascinating possibilities, has followed the tradition of women in her family and enrolled at UMR.

Miss Christie Arras' school record reads like a travel brochure. She is the fourth generation coed in her family to attend the former Missouri School of Mines and Metallurgy and now the University of Missouri at Rolla.

Her mother, Jean Lloyd Arras '44, was Rolla's first woman electrical engineering graduate, and the first to be awarded the Tau Beta Pi honor society's woman's badge. Her grandmother, Margaret McCaw Lloyd, attended briefly before marrying one of her professors, Samuel H. Lloyd, Jr. '21, later chairman of the department of

humanities. Christie's great-grandmother, the late Blanche Owens Mc-Caw, was a student at MSM about the turn of the century.

"You might say I was brainwashed," says Christie, who plans to follow her mother's footsteps and major in electrical engineering.

On the male side of the family, Christie's brother, Robert Arras, Jr., is following tradition, too, as a junior at Yale, his father's alma mater. Her younger brother is still in grade school, and hasn't decided which side to follow.

With the exception of vacations and a six-month stay with her grandparents in Rolla during the Cuban revolution, Christie has lived abroad all her life. Her father, Robert Arras, Sr., is now

president and managing director of the Chrysler Assembly Plant in Lima, Peru. There Christie spent her junior and senior years in high school, graduating near the top of her class at Franklin Delano Roosevelt High School, an American language school. Before that there was a year in Madrid, Spain and three and one-half years in Panama, a year in Cuba, and ten years in Venezuela. Last year she took a year's posthigh school study at The American School in Switzerland, traveling behind the Iron Curtain and in the Common Market countries as a part of her educational experiences.

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Christie anticipates that the life in Rolla should be somewhat less unsettled politically, at least, and is looking forward to living in her own country and to an education American style.

"I've always heard that to have a really well-rounded education, a girl should spend some time studying abroad," Christie quips. "For me, 'abroad' is the States, and what could be more American than a small midwestern college town?"

She lives with 13 other women in the Thomas Jefferson, a privately-owned co-educational dormitory, on the edge of the campus.

New Emphasis on Three "R's" by Dean Johnson

Advice to future engineers and scientists: the first two "R's," "readin" and 'ritin'" may be as important as the third, "'rithmetic."

That is the opinion of Dr. Stuart Johnson, new dean of the School of Engineering at the University of Missouri at Rolla, which specializes in engineering and science education.

In this case "'ritin" refers not to penmanship, but to the ability to communicate.

Although many high school students regard English courses as an unnecessary evil, training in written expression and reading comprehension is essential for the future engineer or scientist, Dr. Johnson said. Both must read and comprehend a large amount of technical material and must be able to express themselves precisely in reporting the results of their work.

Dr. Miles Busy in "Retirement"

Most people retire from jobs to fish and catch up on their reading. Dean Emeritus Aaron J. Miles of the University of Missouri at Rolla retired in August (he's 65) and is working as hard as ever.

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After 34 years service on the UMR faculty – as dean of the School of Engineering, chairman of the department

interest to the school and tells them about UMR's current research programs.

When he gets back to UMR, he goes to meetings of his three University committees – on honorary degrees, public occasions and high school and college liaison. Then there are faculty meetings and everyday office work – dictating letters and memos

three years and has 30 to date. He giggles, "I taught a young lady to solo the other day and almost cut the post in two."

About fishing – it's his favorite sport, but he doesn't expect to see any walleyes until school's out next summer. He's only been on one fishing trip since he retired – that was one week on Lake Mamquash in Ontario, Canada, where he caught walleyes, white fish and northern pike. "Next June, I hope to catch some big ones, but then there's summer school," he grins.



Dean Emeritus Aaron J. Miles (left) counsels with Millard Knott as part of his "retired" schedule at UMR. Since his retirement he's working as hard as ever. He says he's 54, going on 30.

of mechanical engineering, and professor and instructor of mechanical engineering and mathematics - Dr. Miles has retired to a "life of leisure." Every week day at 7:30 a.m. he teaches 35 underclassmen how to be adept at analytical geometry with calculus. On the average of two times a week, he flies or drives himself to a Missouri or outof-state high school, college or industry to talk about engineering and science. He usually spends the day or two talking to students about career opportunities in the field and advising them what courses to take to prepare them to enter UMR. At industries, he finds out about new programs of and grading tests. During his off-hours of the day, he is in his office counseling with UMR faculty and students about his and that. At home in the evenings, he reads up on current engineering and science trends. He says of his retired life, "I'm putting in as much time and driving almost as fast."

Is he catching up on his hobbies? In a not-so-leisurely way. On weekends, Dean Miles can be found at a nearby airport teaching his students how to fly a plane. He says with great pleasure, "Every time I get someone to solo, I cut a notch on my hangar post." He's been cutting notches for

New Social Sciences Chairman

Dr. Marvin Russell Cain, former director of the Land Grant Research Center at Michigan State University in East Lansing, is the new chairman of the department of social sciences at U.M.R. Dr. Cain will also serve as professor of history.

Dr. James Pogue, chairman of the U.M.R. department of humanities, has acted as chairman of social sciences since the death of Dr. James G. Harris last January.

Dr. Cain has been associate professor of history and director of the manuscripts collection at Michigan State, assistant professor of history at the University of Missouri at St. Louis and acting assistant director of the western historical manuscripts collection at the University of Missouri, Columbia.

He holds Ph.D. and A.M. degrees from MU and a B.S. degree from Southwest Missouri State College in Springfield. He is a member of the American Historical Association, the Organization of American Historians, the Southern Historical Association and the Kappa Alpha social fraternity.

He is the author of numerous publications in his field.

Dr. and Mrs. Cain and their children, Cynthia, Cecelia, Carolyn and Claudia, reside at 303 E. 18th, Rolla.

Family Sends Three to UMR, Another Coming

With more families like the Headingtons of Decatur, Illinois, the country's need for engineers will soon be fulfilled.

Since 1962, two sons have been graduated from U.M.R. with B.S. degrees in engineering. A third son is now a freshman in U.M.R.'s engineering program and a fourth son of Mr. and Mrs. Hugh E. Headington, now in high school, has plans to join the crew.

Dennis Headington, the second oldest son, was granted a degree in ceramic engineering from U.M.R. in 1962. He's now a ceramic engineer with the Radio Corporation of America in Marion, Ind. Lee, the oldest son, received his B.S. degree in metallurgical engineering in 1963. He's employed with General Electric in Louisville, Ky. Frank, the third son, is a freshman in ceramic engineering at U.M.R. Tom, a senior at Stephen Decatur High School (the others were also graduated from there) will probably join Frank next year and major in some field of engineering.

Mr. and Mrs. Headington reside at 207 Wayside in Decatur, where he is an insurance salesman.

The Headington's aren't sure how it all started, but they're glad it did. "Lee was interested in mathematics and science in high school and this probably gave him the UMR idea," Frank said about his older brother.

Each brother subsequently seems to come to the same conclusion.

The brothers are alike in other ways. All are good students and industrious in pursuing their goals. Dennis was active in UMR organizations. He was an international fellow and was on the honor list. He was a cooperative engineering training student with Harbison-Walker Refractories. (This program allowed him to alternate college at UMR with semesters of work in industry.) He was a member of the American Ceramic Society (ASC) and the American Institute of Chemical Engineers.

Lee was just as active in metallurgical engineering. While at Rolla, he was a member of the American Foundrymen's Society, the Pershing Rifles (ROTC) and the UMR Rifle Club.

Frank is entering his studies with the same gusto. He attends meetings of the National Society of Professional Engineers student chapter and is a member of the American Ceramic Society.

All three are members of the Lambda Chi Alpha fraternity. Frank is a pledge. Dennis was rush chairman and Lee was steward and served on the interfraternity council.

Tom is busy at Decatur editing the school yearbook and serving on the Student Council.

Pretty outstanding - the Headingtons.

come to the same conclusion.

The brothers are alike in other

or advanced degrees.

About 80 per cent of the 250 members of Dames hold jobs to help finance husband's education. Each January and May, the Dames hold a graduation banquet at which the wives of student graduates receive diplomas

tion but dropped out to get married. A few are enrolled in course at UMR

- several nearing completion of B.S.

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awarding them the Ph.T. degree (putting hubby through).

It seems that the future Dames diplomas may read Ph.T. and M.T. (putting hubby through and me too).

Stubbins Foundation Gives \$10,000

The John Russell Stubbins Foundation has contributed \$10,000 for a new student loan fund at U.M.R.

The funds will be available next spring for loan to students who are residents or citizens of Venezuela and who are studying toward a B.S. or M.S. degree in engineering at U.M.R.

Student recipients will be chosen by the faculty on the basis of the academic good standing. Raymond Pendergrass, Director of Student Aids and Awards, says the principal amount loaned to one student for each two-semester period is not to exceed \$2,500.

John Russell Stubbins is associated with Oficina Tecnica Stubbins, C.A. in Venezuela. He studied civil engineering at U.M.R. in 1917 through 1919.

Million and a Half in Gifts

A total of \$1,601,020.76 in gifts and grants was received by the school during the fiscal year 1966-67.

A total of 363 donors gave funds to the University, broken down as follows: 97 corporations gave \$135,314; 41 foundations, \$97,728; 145 governmental agencies, \$1,312,125; 40 miscellaneous societies and organizations, \$34,295; 40 individuals, \$21,558.

The funds will be used for student loans, \$138,465; scholarships, traineeships, fellowships, prizes and awards, \$262,783; research, \$554,907; instruction, \$333,102; equipment and facilities, \$198,508; miscellaneous, \$113,254.

Scholarship Begun for Student Wives

More and more college girls are dropping out of school to get married. However, at the University of Missouri at Rolla many student wives are going back to school.

The UMR chapter of University Dames (national organization for student wives) has started a scholarship to encourage its members to go back for more education. A \$120 check was recently presented to the school to start the scholarship fund. This spring, four Dames will be selected to receive stipends of \$30 each.

According to Mrs. Thomas Barrett,

Dames president, the fund is small now but it should encourage Dames to go back to school. 'We hope the fund will grow in the future as Dames' interest in continuing education mounts,' she said.

One Dame who plans to apply for the scholarship says "It gives me added encouragement – that little push that convinces me. Why not get my degree too!"

At UMR, about 20 per cent of the Dames have college degrees. Most of these wives want advanced college work. About half have some college educa-

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New UMR Journal

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A new journal of scholarly papers of scientific research and humanistic studies is to be published at UMR.

The UMR Journal will be distributed from Rolla as an exchange item to engineering scientific and humanistic institutions and libraries throughout the world and individual copies will be sold for a nominal price. The journal will be published as material and money permit until the means are acquired to permit publication on a regular periodic basis.

The new journal will be a broader undertaking than the old University of Missouri School of Mines and Metallurgy Technical Series Bulletin formerly published by the school. The new publication will contain papers from engineering, science, humanistic and social science areas.

The first edition will contain papers by seven nationally prominent geologists presented here in the first series of the V.H. McNutt Colloquium. The publication will appear around the first of the year. The papers are illustrated with a total of 68 line drawings and 19 photographs. The content of the articles contains new concepts and valuable information for geologists and will stand as an important reference for future work in the science.

Members of the UMR publications review board for the journal are: Dr. William J. James, director of the Graduate Center for Materials Research; Dr. William A. Andrews, professor of civil engineering; Dr. Gordon Lewis, associate professor of ceramic engineering and research professor of materials; Dr. Michael D. Patrick, assistant professor of English; and Dr. Anthony J. Penico, professor of mathematics. Dr. James will serve as chairman of the group.

Nonvoting members of the board are: Dr. Russell A. Primrose, associate professor of chemical engineering and research coordinator; Jo W. Barr, associate professor of history and director of publications; H. R. Sparling, artist; J. W. Koenig, technical editor; and Robert B. Lewis, registrar.

Centennial Strategy Meeting



Dr. Aaron J. Miles '30, Dean Emeritus, School of Engineering; Henry E. Zoller '23; San Antonio; Mrs. J. C. Langfeldt, Austin, (Dr. Hasselmann's sister); Dr. Merl Baker, Chancellor UMR; Mrs. Baker; James J. Murphy '35, St. Louis, Mo., National Chairman Centennial Campaign; Mrs. Dorthy Penry, Houston, Dr. Hasselmann's secretary; Bob E. Sutton, Centennial Program Director; Dr. Karl F. Hasselman '25, host and Area 6 Chairman. This group gathered at Dr. Hasselmann's ranch, El Rancho Karlo, near Raymondville, Texas, planning strategy for Area 6 alumni campaign. Area 6 includes Texas, Oklahoma, New Mexico and Arizona where nearly 1,000 Rolla alumni reside.

Stadium to Be Improved

The Board of Curators has approved preliminary plans for the stadium improvements on the campus. The goahead for final plans has been given to Marshall and Brown, Architects and Engineers of Kansas City.

About \$200,000 in state funds has been appropriated for UMR stadium improvements. Plans call for a grandstand. The new facility will seat 3,200 and will give UMR a total seating capacity of 7,000. The grandstand will include an 810 square foot press box with radio booths and space for press, coaches, scouts and officials. A camera platform will be on top of the press box. The grandstand will be constructed of steel, similar to existing facilities.

Improvements also call for dressing facilities at the south end of the field. The 6,000 square foot building will be constructed of red face brick to match the multi-purpose auditorium gymnasium now under construction. The interior will include locker rooms, meeting, training and storage rooms, offices and shower rooms.

Two ticket booths and two concession stands will be constructed on either side of the field at the north end.

Improvements are expected to be completed by next fall.

UMR Gridsters Rate Well

Even though the Miner gridsters did not make it out of the MIAA cellar, they did look good as the final statistics were tallied. The Miners placed no less than fifth in any one area, except that of the rushing department.

1967 FOOTBALL SCORES:

UMR 25, - Harding College 14.

UMR 6, – Pittsburg Kansas State College 14.

UMR 34, – Missouri Valley College 13. UMR 14, – William Jewell College 28.

UMR 9, – Southwest Missouri State College 21.

UMR 0, - Central Missouri State College 21.

UMR 0, – Southeast Missouri State College 34.

UMR 7, – Northeast Missouri State College 13.

December 1967

UMR 19, – Northwest Missouri State College 36.

UMR quarterback Ron Miller ranked second in passing yardage as he hit the 1042-yard mark on 44% of his attempts. Brune of SEMS was first with 1462 yards and Gorzynski of NEMS holds the record for percentage of completions with 53%.

Miner Larry Oliver caught the greatest number of passes for the 1967-68 year as he tallied 33%, but he was third in yardage with 449. Diepenbrock of SEMS accounted for the greatest number of yards passing with 680. Oliver also rated in the punt return finals as he averaged 9.3 yards per return to rank fourth. In first place was Bland of SEMS with 16.3 yards per return.

UMR's Rich Erxleben holds down the number four spot in leading punters with 36.7 yards per punt and a total of 1912 yards. First place in this division was captured by CMSC's Lang who averaged 41.5 yards per punt with 2088 yards.

Leading the Miner scoring attack this year were Larry Oliver and Bob Nicodemus who tallied 38 and 36 points respectively. These two men ranked fifth and sixth among the MIAA scorers. Only one other team had two scorers in the top six and that was SEMS's Smallwood and Nall who scored 48 and 39 points respectively. In first place was CMSC's Brumley with 56 points.

A look at the overall Miner passing attack shows that they ranked second in the conference with 1220 yards. Only SEMS topped them as they bombed for 1486 yards. A quick look at the Miner opponents shows that they were quite careless as they were penalized 747 yards, the greatest in the conference.

In the rushing department Bob Nicodemus placed seventh in the overall view with 3.7 yards per carry. Leading the list was Owen of NWMS with 5.13 yards per carry on 90 attempts. Nicodemus did most of the rushing for the Miners as he drove for 422 yards out of the Miner total of 798.

Runners Have Good Record

Coach Gale Bullman's Cross Country squad ran Evangel College to death as they captured all three top spots to win 17-45. Placing first and setting a new school record for the four mile course was Stan Notestine who was timed at 21:43.

The Miners only let one opponent between themselves and the top six places and he placed fourth. In second place was Don Duren with 22:29.5, Keith Browne with 22:34 was third, Mike Render placed fifth at 22:46, while Rex Kenyon was sixth with 23:02.

"The times in this race were the best ever seen this season," reported Coach Bullman. The men were probably running more against each other to see how they would be set up in the conference match than against their opponents.

Coach Bullman sent seven men to Warrensburg. They were Stan Notestine, Keith Browne, Don Duren, Mike Render, Rex Kenyon, Ron Tracy, and Jim Hellewege.

Favorites for the MIAA title this year were the defending champions of Southeast Missouri State College of Cape Girardeau and Northeast Missouri State College at Kirksville. In the Southwest Missouri State Invitational meet last October 14, Kirksville's first runner beat Cape's first man, but then Cape's next three runners hit the scoring mark together.

ENGINEERS AND SCIENTISTS WANTED

For information about the positions listed below, please contact Assistant Dean Leon Hershkowitz, Placement Office, UMR, Rolla, Mo., 65401. Also give file number.

ENGINEERS – Semiconductor products division large electronic firm. In southwest. Most all disciplines. Refer File No. 154.

INDUSTRIAL ENGINEERS – Large steel company. Midwest. Ability in mathematics and interests oriented to plant operations. Refer File No. 153.

M.E. - E.E. - Loudspeaker manu-

facturer. Midwest. Work with production engineering staff on production methods. Design production equipment. Refer File No. 149.

MINING – Limestone mine which produces 500,000 tons per year. In East. Refer File No. 147.

ENGINEER – Packaging food products. Minimum 2 years experience. St. Louis area. Refer File No. 150.

C.E. – Planning Department county government. Midwest. Refer File No. 144.

ENGINEERS – World leader in graphic communications. Also scientists. In research, manufacturing and advanced engineering. Refer File No. 143.

ENGINEERS – Quality control, Reliability, Systems, Electronic Warfare Systems, Simulation Systems, Business and Engineering Programmers. East and west coasts. Refer File No. 141.

SALES – Pipe Division large company. Contacting city, utility, industrial and consulting engineers. Refer File No. 139.

E.E.-M.E. – Consulting engineering firm. Midwest. Some experience. Refer File No. 137.

M.E. – Nonmetallic mining and processing company, heart of N.Y. Adirondack Recreation Area. Plant Superintendent, 3 to 7 years experience. Preventative and routine maintenance, process design, department supervision. Prime benefits, home and salary commensurate with qualifications. Refer File No. 136.

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ENGINEERS – Market development in brass division large company. M.E., Met. E., I.E. or Ch.E. 1 to 3 years experience. Refer File No. 135.

GLASS CORP. – R & D Department chemists. E.E. 5 to 10 years experience industrial power application. Ceramic project engineer. Industrial Engr. and staff quality control. Refer File No. 133.

ENGINEERS – Plastics; Market Research Specialist, Ch.E. Chemist, M.S. or Ph.D.; Programmer; Large oil company. Refer File No. 132.

LARGE RUBBER COMPANY - Engineers and scientists all degree levels. Experienced and non-experienced. Good salaries. Refer File No. 130.

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Alumni Dinner

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in

New York, N. Y.
Tuesday, February 6
6:30 P. M.

Patricia Murphy's Candle Light Restaurant 12 East 49th Street

Contact

Larry Spanier '50 for Reservations 1551 Franklin Ave. Mineola, L. I., N. Y. Ph. P. I. 1-8966

MARRIAGES

Erdmann - Walter

Robert H. Erdmann '62 and Nancy Lynn Walter of Warren, Ohiowere married July 15, 1967. Bob is a mechanical engineer with Timken Roller Bearing Company, Canton and the newlyweds new home is at 425 Fair Ave., New Philadelphia.

Presser - Bolton

John R. Presser '64 and Nancy Bolton were married January 1965. They are residing at Lake Sherwood, Rte. 2., Box 156C, Marthasville, Missouri and John is a design engineer at Condustron-Missouri, St. Charles.

Sakovich - Gordes

Bill C. Sakovich '67 and Miss Linda Gordes, of Normandy, Missouri, were married, in St. Louis, February 4, 1967 and now reside at 8809B Carson Road Court, Berkeley. Bill is an associate engineer at McDonnell-Douglas.

Kincaid - Macko

Gary Lee Kincaid '67 and Miss Anith K. Macko were married November 23, 1967. Mrs. Kincaid is a 4th grade teach-December 1967

er in the Lindbergh School District and she is a graduate of Southeast Missouri State College. Gary is a process engineer with Monsanto Co. Their new home is at 6706 Colony Acres Drive, Apt. D., St. Louis, Mo.

McLain - Champion

Jimmie H. McClain '62 and Miss Laurel Champion of Clinton, Alabama, were married March 4, 1967, and reside at 12 American Avenue, Montgomery, Alabama. Jimmie is an estimator with Blount Brothers Corporation general contractors.

Schattyn - Elkins

John Martyn Schattyn '63 and Miss Virginia Coline Elkins were married August 20, 1966, in St. Louis, Missouri. Both of the Schattyns are employed by the Humble Oil Company in Houston, Texas. They reside at 5920 Bessonnet, Apt. 28.

Kasten - Siglin

Richard Joe Kasten '66 and Miss Sheilah Sue Siglin, of Kansas City, Missouri, were married December 29, 1967, at the First Presbyterian Church in North Kansas City. The groom completed his M.S. degree at Ohio State U. and is now employed at Arm-co Steel Corporation, Middleton, Ohio. The bride has completed her degree in Education. They will reside in Middleton.

Webb - Karstedt

John J. Webb '64 and Miss Karen Karstedt were married November 27, 1965. John is a buyer for Allis-Chalmers Mfg. Co., West Allis, Wisconsin. Their address there is 10253 W. Cleveland Avenue. The groom is also working toward a MBA degree at Marquette U.

BIRTHS

Mr. and Mrs. Daniel McWilliams '67, announce the arrival of their second daughter, Dawn Michele, August 22, 1967. Dawn's sister, Nena Diane is 2½ years old. The father is a process engineer with Texaco, Inc., Port Arthur, Texas. The family resides at 6501 Verde, Groves, Texas.

Dr. and Mrs. Steven M. Kovel '65,

now have a daughter, Shari Gayle, born October 29, 1967. Her brother, David, was four years old, December 5th. Steven is a research physicist with Cornell Aeronautical Labs., in Buffalo, New York. Shari's mother, Pauline, was a former secretary in the Alumni Office. The Kovels' address is 41 Rumson Road, Tonawanda, New York.

Mr. and Mrs. John W. Padan '55, welcomed Deborah Doyce, September 24, 1967. She joins Lisa who is two. They all live at 5028 57th Avenue, Apt. 101, Bladensburg, Maryland. John is a mining engineer with the U.S. Bureau of Mines, Office of Director of Mining Research.

Mr. and Mrs. Jayant Kadakia '62, welcomed the arrival of their first child, Tania. The father is a chemical engineer for the B.F. Goodrich Chemical Company, Avon Lake, Ohio. Their home is at 14579 Bartter, Cleveland.

Mr. and Mrs. Ralph C. Maxton '60, have their second son who arrived February 17, 1967. David's brother Daniel is 2½ years old and their father advises that they are good engineering stock. Ralph is a research engineer for Abex Corporation, hydrodynamics research center in Columbus, Ohio. Their address there is 4322 Kenridge Drive.

Mr. and Mrs. George L. Jensen '64, are parents of Troy Allen, born January 14, 1967. George is assistant director of computer assisted registration at the University of Tennessee. He is working on his Ph.D. degree in management science while affiliated with U. of T. Their Knoxville address is 7716 Sussex Circle.

Mr. and Mrs. Murray Siroka '58 advised us of the birth of Eric Jay, May 16, 1967. He joins his brother, Barry 12, and sister Paula 10. Murray is a program manager for Sylvania Electronics in Williamsville, New York and the family reside at 66 Fenwick Road, Tonawanda.

Mr. and Mrs. E. C. Fadler '62, are proud of Anne Jeanenne, born September 22, 1967. The father is a development engineer with Ford Motor Company, Dearborn, Michigan. He is also a registered professional engineer in the State of Michigan. Their residence is at 24920 Chernick, Taylor.

Mr. and Mrs. Richard W. Murray '51, 12538 Larkwood Drive, St. Louis, Mo., are parents of their second child, Bradley William, born May 14, 1967. Murray is with Moloney Electric Company as design engineer.

Mr. and Mrs. Jack E. Russell '65, have their first child, a son, Richard Darnell, who arrived August 15, 1967. They live in Barberton, Ohio, 1492 Maple Street, where the new father is a department foreman with Pittsburgh Plate Glass Industries, chemical division.

Mr. and Mrs. Owen B. Funsch '62. Their first is Cynthia Marie, born December 10, 1967. The Funschs are in Akron, Ohio, where Owen is a designer with The Goodyear Tire and Rubber Co., and their home is at 1045 B Silvercrest.

Dr. and Mrs. Harry J. Sauer, Jr. '56, are pleased to announce the arrival of Victoria Lynn, born December 5, 1967. Vicki has six brothers and sisters; John, Beth, Carl, Robbie, Kathy and Debbie. Harry is professor of mechanical engineering at UMR. Their address is College Hills, Rolla.

Mr. and Mrs. Ronald J. Winkler '67, are pleased to announce the birth of Mechelle Lynn, November 16, 1967. The father is currently a project engineer for the research department of the film division and is in charge of such projects as building and plant expansion and other related research projects for the film division of E.I. Du Pont de Nemours, Circleville R & D Labs. The Winklers' address is Route 3, Dunkel Road, Circleville, Ohio.

Mr. and Mrs. Paul O. Herrmann '58, 8640 Gregory, St. Louis, Mo., have their fourth child, David Michael, born September 30, 1967. Their other children are Paul, age 7, Kathy 6, and James 4 years. The father is an application engineer at Emerson Electric.

Mr. and Mrs. Gerald W. Bersett '65, announce their second son, Robert Henry, a brother of William Brian, who is two. Mrs. Bersett is the former Donna Hudgens, of Rolla. The Bersetts are now living in Cheshire, Connecticut, 300 Taylor Ave. Gerald is with Olin Mathieson, Brass Division.

DEATHS

J. P. Bryan '24

Jean Paul "Barney" Bryan '24, died November 6, 1967, after a long illness. He resided at Liberty, Missouri at the time of his death. He was with the U.S. Corps of Engineers for a number of years before retiring several years ago. He is survived by his widow, Gertrude Behner Bryan, 623 Jefferson Circle, Liberty, a son, William J. Bryan, of Chicago; a daughter, Mrs. Peggy Brandom of Liberty and three sisters.

Russell D. Sword '61

Russell Don Sword '61, was killed in a car accident near the south edge of Cape Girardeau, Mo., October 26, 1967. He has recently moved to Cape from Mexico, Mo., where he was employed by the A.P. Green Refractories Co. He is survived by his parents.

Walter W. Clements '52

Walter W. Clements '52 died September 26, 1967, in the Methodist Medical Center, Houston, Texas. He was employed by the Southwest Production Corporation, Roswell, New Mexico, prior to his death. He is survived by his widow.

R. L. Schuerenberg '58

Robert L. Schuerenberg '58. The Alumni Office has been informed of this alumnus' death which occurred in August 1965.

Frank M. Strong '25

Frank N. Strong '25, died September 20, 1967.

Robert E. Balmat '42

Robert E. Balmat '42, died in Boston, Massachusetts, February 19, 1966.

James R. Baker '50

James R. Baker '42, died unexpectedly, December 9, 1967, following a heart attack. He was 41 years old. He was process engineering manager at the A.P. Green Refractories Co., Mexico, Missouri. He joined the Green Refractories after graduation. He is survived by his widow, the former Frances Rosel, of St. Louis; three sons, Tim 16, Mancy 13, and Andy, age 4, all of the home, 1231 N. Kentucky, Mexico, and his parents residing at Bevier, Missouri.

Ernest J. Massard '44

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Ernest Joseph Massard '44, died April 21, 1966. He was an administrative engineer for Harris Intertype Corporation, Cleveland, Ohio at the time of his death. He is survived by his widow residing at 6121 Cedarwood Road, Mentor, Ohio.

James H. Chase '12

James H. Chase '12. The alumni office was notified of this alumnus' death.

Charles W. Holderbaum '33

Charles Wilford Holderbaum '33. The alumni office received a notice of his death. No further information concerning his demise.

William E. Wilson '48

William E. Wilson '48. The Alumni Office received information that William E. Wilson died unexpectedly March 31, 1967.

Mrs. Joel F. Loveridge

Virginia M. Loveridge, wife of Joel F. Loveridge '40, died on December 26, 1967, after an extended illness. Surviving are the husband and two children, Joel F. and Christine. Funeral services were at the First Presbyterian Church, Kirkwood.

Alumni Personals

1910

Monroe Farrar, R.R. 4, Mattoon, Illinois is retired on a farm and his hobby is farming and fishing. He farms 450 acres which he states keeps him mentally alert, and he says it is a great way to retire.

John W. Bodman is retired also. Several years ago he built a new home at 548 Yawl Lane, Sarasota, Florida and that is now his official address. However, he and Mrs. Bodman continue to spend their summers on their 400-acre farm at Royalston, Massachusetts.

1912

Ted and Gertrude Lynton flow to London November 5th. Ted, a former member of the North African Economic Board and Chief of the Mission in Casablanca Morocco in World

War II, attended a dinner at the Dorchester Hotel sponsored by the group. This was their final dinner and the last chance to see former associates on the board. Ted and Gertrude are still residing at 422 Beloit Ave., Kensington, California.

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1922

Daniel E. Huffman has retired to a hobby business and is owner and operator of Sedona T.V. Sales and Service, 526 E. Belmont Avenue, Phoenix, Arizona.

1 9 2 3

Elmer F. Chapin retired from the Atomic Energy Commission, October 17, 1967. The Chapins plan to remain in Canada until spring and they hope to settle in or near Nashville, Tennessee. Their mailing address is P. O. Box 224, Cobourg, Ontario, Canada.

1926

Professor W. Irwin Short visited the campus in December. He has retired after many years with the University of Pittsburgh and head of the Department of Civil Engineering. Much of his retirement is going to be spent traveling. His address is 2329 McNary Blvd., Pittsburgh.

James P. Moore is engineer cost engineer at U.S. Steel's Gary Sheet and Tin Mill, Gary Indiana. He is also president and consulting engineer of Atoz Corporation and owner of C.J. Metzcher & Company, engineers and surveyors. His residence is at 336 Tyler Street, Gary.

1929

Emmet R. Kirn retired from American Oil Company, June 1, 1967, after 37 years of service. He was senior buyer in the purchasing department. The Kirns will retain their present residence, 1525 Park View Ave., Whiting, Indiana, and travel extensively.

1931

Albert Harrison, 224 South Madison, Middletown, Kentucky, is wondering about other members of the class of 1931. He never sees items about their whereabouts or welfare in the issues of the MSM Alumnus. He is Chief-Foundations & Materials, Corps of Engineers, Louisville.

December 1967

1932

Colonel Stuart L. Davis, USAF, Ret., had two discs removed from his lower lumbar region at Walter Reed General Hospital, October 5, 1967. The operation was successful but legs are a little weak and he is recovering satisfactorily. He is back at work as senior instructor-civil engineering consultant, U.S. Army Engineer School, Engineer Management Branch, Ft. Belvoir, Va. His address is 1025 Creton Drive, Alexandria, Virginia.

1933

Walter H. Braun, chief metallurgist, Matthey Bishop, Inc., Malvern, Pennsylvania, has been making a series of talks to American Society For Metals chapters on the subject, "Aerospace Metals-Where They Stand Today."

1937

James L. McGregor is employee relations manager St. Joseph Lead Company, Bonne Terre, Missouri.

1938

Fred M. Mueller is senior engineer at the Bettis Atomic Power Laboratory, Idaho Falls, Idaho. This is part of Westinghouse Electric Corporation's operation. His address is 336 ½ West 18th

1940

Frazier M. Steward, 9 Mystic Lane, Darien, Connecticut, advises that their daughter, Sue received her law degree from Georgetown University, passed the New York State Bar, and is assistant to the Juvenile District Judge, Washtingon, D. C.

Sidney Capp is president of S.A.S. Equipment Company, Inc., 6512 Kennedy Blvd., North Bergen, N. J.

1941

James R. Roux, owner of Roux Engineering Sales Co., Salt Lake City, Utah, also has an office in Scottsdale, Arizona. He has an apartment in Salt Lake City and he has a home on Skyline Country Club grounds in Tucson and he invites his friends to visit him there

Robert L. Topper has been named executive vice president of Pyrofax Gas

Corporation, the propane marketing subsidiary of Texas Eastern Transmission Corporation. He will be responsible for planning and carrying out the company's propane sales activities. Topper has been with Texas Eastern since 1966 and he has a wide experience in the oil and gas related industries.

He has been president and chief executive officer of Lumar Gas Corporation and executive vice president of Trans-Southern Pipeline Corporation. He was with Transcontinental Gas Pipeline Company from 1951 to 1963. Graduating in 1941, he spent four years in the U.S. Army Corps of Engineers, after which he was named construction superintendent for the J.F. Pritchard Co., later became project superintendent of Stanoling Pipeline Corporation in Tulsa in 1947. From 1949 to 1951 he was an engineer with Stone and Webster in New York, N.Y.

He is a registered professional engineer in Texas and Missouri, a member of the American Gas Association, the Southern Gas Association and the American Petroleum Institute. He is listed in Who's Who in Engineering and Who's Who in the Southwest. Mr. and Mrs. Topper and their five children live at 11015 Wickwood Drive, Houston, Texas.

Professor R. F. Davidson's son, Patrick, is a sophomore at UMR, in the M.E. Department. The other son, Mark, is in high school. The two daughters could be prospective Miners. They are in Junior Hi and Elementary School.

1944

J. Richard Hansen is now vice president military systems at KMS Industries, Inc., Ann Arbor, Michigan. He formerly was MOL operations group director, Aerospace Corporation, Los Angeles, California. His address is 2040 Welch Court, Ann Arbor.

1 9 4 6

Walter H. Kiburz has been works manager for the A.P. Green Refractories Company's Mexico, Missouri, plant. He will be in charge of all product manufacturing functions for the Mexico plant, still the largest fire-clay refractories plant in the world. He has been with A.P. Green since graduation.

Andreas A. Andreae, retired Colonel, USAF, and now general manager of Portsmouth Motor Mart, Portsmouth, N.H., has a son, Robert A. Andreae, who is also a student at UMR, and in the M.E. Department. Robert is a junior.

1947

Joel H. Teel has been appointed Works Manager of Phelps Dodge Refining Corporation's Laurel Hill Works, one of the major electrolytic copper refineries in the U.S., employing 750 persons at Laurel Hill, Long Island, N. Y. The facility also produces various chemicals, including copper sulfate. Mr. Teel joined the company in February 1966. Before this, until 1965, he was General Superintendent of Plants at Chuquocamata, Chile, for the Chile Exploration Company, an Anaconda Division. He had been employed in various divisions of the Anaconda Company since 1947, first in the western U.S. and later in Chile.



Joel H. Teel

Dr. Arliss Martin is on leave from UMR and is associate professor at the Abadan Institute of Technology, Abadan, Iran. The Martins' two oldest daughters are attending the American Community School in Beirut and the oldest, Joy, will graduate this year. Mrs. Martin and the two younger children are taking advantage of their sojourn overseas and are traveling in Europe and Asia. Their address is S.O. 3228, Abadan, Iran.

Roy H. Dunham has been promoted to chief mechanical engineer and placed in charge of the mechanical branch of the Tennessee Valley Authority's division of design. The mechanical branch has the lead in the design of all TVA thermal power plants which at present includes: Paradise No. 3, due to operate in 1969, which with the rating of 1150 MW is larger than any unit presently operating; Brown's Ferry Nuclear Plant which with three 1100 MW units is the world's largest nuclear power plant presently under construction; and the Cumberland Steam Plant, recently announced, will have two 1300 MW units. His address is Rte. 4, Land Oak Road, Concord, Tennessee.

1948

Jorge Jackson is head of construction and maintenance for Cia Shell de Venezuela, Refineria Cardon, Punta Fijo, Edo. Falcon, Venezuela. Jorge has plans for visiting Rolla next fall, with his family, ten in all, to enroll his oldest son, Victor in his alma mater.

Ben M. Adams has accepted a position as Superintendent of Schools at St. Clair, Missouri. He has served as high school principal at the Benton (Mo.) and the Thomas W. Kelly High School for the past 14 years. He received his B.S. in Electrical Engineering, at MSM, and his M.S. degree in Education at the University of Missouri, Columbia.

1949

A. F. Hemme who has been plant manager, Republic Works, Carbon Products Division, Union Carbide Co., has been assigned as plant manager at the company's new installation the S. A. White Martins Nordeste, Caixa Postal 1253, Salvador, Bahia, Brazil. The plant is now under construction and located in the above coastal city.

William Dale Carney, District 10, engineer for the Missouri State Highway Department in Sikeston, has been promoted to bridge division engineer in the department's headquarters in Jefferson City. William H. Shaw '49, a field liaison engineer in the maintenance and traffic division of the main office will replace Carney as engineer for District 10.

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Edward P. Lasko is senior metallurgist at Pratt Whitney Aircraft, West Palm Beach, Florida. He is working in failure analysis and metallurgical investigation of the materials development laboratory. His address is 14203 Leewood Way, Lake Park, Florida.

Lawrence J. Nagel and family were evacuated out of the Sudan to Addis Ababa, Ethiopia at the end of September 1967. Effective December 15th, Lawrence was assigned to the American AID Mission to Thailand. His new address is U.S. Agency for International Development, APO San Francisco, California 96346.

Robert E. Peppers has been named smelter superintendent of the Herculaneum Smelter Division of the St. Joseph Lead Company. He joined St. Joe in 1954 as a metallurgist and in recent years has been general plant foreman.

1951

J. D. Cooper is a physical scientist with the U.S. Bureau of Mines, Arlington, Virginia. The Coopers' son, J. D. Jr., a high school senior, is a National Merit Scholarship semi-finalist. Mrs. Cooper is the former Erma Kenney, of Rolla. They live in Adelphi, Maryland, 9325 Lynmont Drive.

William E. Horst received his Ph.D. degree in Metallurgy from the University of Arizona last May. He is an associate professor of metallurgical engineering in the College of Mines, U. of Arizona. His Tucson address is 7045 N. Montebella Road.

Frank W. Owens has been promoted to general plant superintendent, American Smelting & Refining Company, Federated Metals Div., Perth Amboy, N. J., with residence at 243 B. South 8th Ave., Highland Park.

1952

Darus S. Westmoreland, Jr. is transferring to Lee's Summit District Office of Missouri Public Service Company, January 1st, to become district manager of the utility.

John E. Priest is resident manager for Harza Engineering Co., Interna-

28

MSM ALUMNI PERSONALS

tional, on the Karun and Marun Rivers projects and regional manager, Iran. There is a 100-million-dollar dam and irrigation project under design on the Karun. A feasibility report has been completed for a \$50 million dam and irrigation on the Marun. His address is P.O. Box 97, Ahwaz, Iran.

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Richard O. Holland recently was transferred from Texaco's Computer Services Division, Port Arthur, Texas to their computer services division in Houston. His residence address is 4045 Linkwood, Apt. 321, Houston.

1954

Robert B. Puyear has been appointed Product Manager, Diffusion Coatings in Union Carbide's recently formed Materials Systems Division and he has moved from Kokomo, Indiana to Sandy Hook, Connecticut, Homer Clark Lane.

Herbert E. Lincoln is temporarily residing in North Augusta, South Carolina, while serving as resident project manager for a large paper mill being constructed at Beach Island, S.C. His address is 817 Stanton Drive, and his company is the Daniel Construction Company.

1957

Glenn E. Barton has resigned as city director of public works of St. Joseph, Missouri, and will become city administrator of Lee's Summit, Missouri, effective January 15, 1968. Mr. Barton's new position is newly created by the mayor and city council.

Donald J. Ferguson has been transferred from the Western Electric Manufacturing Plant at Burlington, North Carolina to the Western Electric's St. Louis Service Division as planning engineer. His new address is 536 N. Mosley Road, Creve Coeur, Missouri.

1958

Jerold K. Littlefield, with the Bechtel Corporation, has been promoted to senior engineer. He is a registered professional engineer in California and Louisiana. His residence is at 1088 Valencia Way, Pacifica, California.

Edward K. MacFarlane has been promoted to manager of the Pyro and Durex Divisions in Ohio of the A.P.

Green Refractories Company. He reresides at 202 Vaughn, Jackson, Ohio.

1959

Lt. Col Carrel A. Clem, Jr., has been named as deputy to the chief of the U.S. Army Strategic Communications Command at Fort Huachuca, Arizona. He has returned from a tour of duty in Vietnam where he commanded the 35th Engineering Battalion



Lt. Col. Carrel A. Clem, Jr.

(combat). He and Mrs. Clem reside on the post at his new assignment.

Gerald S. Wyman was a campus visitor during the Christmas holidays. He and his family are visiting in the United States. Their home is in Chuquicamata, Chile, where Gerald is an



Lt. Col. Brisbane R. Brown, Jr. engineer with the Anaconda Copper Company. This is the first visit on the campus since graduation. Gerald's father, Glen S. Wyman graduated from MSM in 1922.

It. Col. Brisbane R. Brown, Jr., is assigned to the Defense Atomic Support Agency, at Sandia Base, New Mexico. He is chief of the Engineering Branch, Directorate of Test Operations, at the agency's Test Command. Col. Brown has received the fifth awards of the Army Commendation Medal and the Bronze Star Medal.

1960

Lt. Col. Donald A. Wisdom was presented with a plaque of appreciation from Philippine President Ferdinand Marcos, October 20, at the Armed Forces Staff College, Norfolk, Va. He served as Engineer Advisor with the Joint U.S. Military Advisory Group in the Philippines from July 1965, until June 1967. President Marcos credits Col. Wisdom with helping solve major problems in economic development by his close work with various Philippine government agencies and their development programs. Colonel Wisdom is a student at the Armed Forces Staff College. He is a member of Kappa Sigma and Chi Epsilon fraternities and the Pershing Rifles Society. He has received the Bronze Star Medal and two awards of the Army Commendation Medal.

Wesley A. Savage has been named to the position of Senior Project Engineer, Industrial Engineering Department of the Pittsburgh Plate Glass Company's architectural metals plant at Kokomo, Indiana. He joined PPG Industries at Crystal City, Missouri, in 1961 after serving six months of active duty in the Army Engineers. Savage, his wife, Jane and two children are making arrangements to move their residence from Crystal City to Kokomo.

1961

David M. Lewis has been transferred from Ponca City, Oklahoma, to England for two years to work on the final design and construction of a new refinery for Conoco. David took his family with him and his new address is 27 Broom Water, Toddington, Middlesex, England.

December 1967

Merle Southern will be the Engineer-in-Charge of the entire United States Geological Survey 9-man field force in the Antarctica this year. The nine-man task-force is the largest ever sent by the Survey in its eleven consecutive years of mapping the Antarctic in support of the U.S. Antarctic Research Program financed by the National Science Foundation. The team departed in October and will remain in the Antarctic until February 1968.

Captain James H. Martin has received the Air Medal for his services in Vietnam. He is an aviator and earned the award for combat aerial support of ground operations. He is with Battery B, 2nd Bn. of the 1st Cavalry Division 20th Artillery. He entered the Army in 1962 and assigned in Vietnam last July. His wife, the former Shirley Whites, of Rolla, resides at 2703 N. Murco Drive, Mineral Wells, Texas.

Morris T. Worley who is with the northern minerals operations of Kerr McGee Corporation, has been promoted from staff mining engineer of the minerals division, Oklahoma City, Okla., to Superintendent of Planning and Engineering, and is now located in Casper, Wyoming. His address is 345 N. Walsh Ave. He joined Kerr Mc-Gee in September 1966 after service as mine foreman with Ozark Lead Company, Ellington, Mo. From 1962 to 1966 he was mining engineer and project foreman with Texas Gulf Sulphur Co., Moah, Utah. From 1958 to 1962 he was instructor in mining engineering at UMR.

Lt. Col. Charles A. Kiefer is at the Army Command and General Staff College, Ft. Leavenworth, Kansas, taking their 10-month regular course. He is among more than 1,200 officers from the U.S. and 51 allied nations who are preparing for duty as commanders and general staff officers in divisions or logistical commands.

Dr. Gregory Spanski has joined the geology faculty at Central State University, Wilberforce, Ohio. Recently he returned from duty with the Corps of Engineers in Vietnam. Prior to his military service he was a member of the U.S. Army Waterways Experiment Station, Vicksburg, Mississippi. He, his wife and son live at 224½ Wilson Drive, Xenia, Ohio.



Dr. Gregory Spanski

1962

Barry W. House has joine the Fayetteville, North Carolina Plant of Rohm and Haas Company. He will work in the Engineering Department. The plant manufactures nylon 6 fiber. He is a member of Tau Beta Pi, Eta Kappa Nu, Phi Kappa Phi and the Institute of Electrical and Electronic Engineers. He was on active duty in the U.S. Army from 1963 to 1965 with the rank of 1st Lieutenant. His Fayetteville address is 418 Edinburgh.

Russell A. Kamper will become chief engineer with Beaver-Advance Corp., Ellwood, Pa. Previously he was a design engineer with Peter F. Loftus Corp. The Kampers' residence is at 300 Crescent Gardens Drive, Pittsburgh.

Jerry Goff is in Maryville, Missouri where he is in partnership with his brother in radio-T.V. sales and service, coin operated laundry and car wash. He formerly was with Boeing Aircraft in Seattle and moved to Maryville in August 1965. The Goffs have one son, 18 months old.

1963

Richard L. Jennings, 320 South Amos, Springfield, Illinois, was discharged from the Navy in September and is mechanical engineer for Sangamo Electric Company. Richard is married and the Jennings have two sons, 3 and 1½ years of age.

The Ed Raneys have moved from Oroville, California to Taft and are living at 1210 4th Street, Apt. 8.

Robert E. Markland is research assistant and instructor at Washington University, St. Louis, Mo., while attending the graduate school of Business Administration studying a doctorate. He received a Ford Foundation Doctoral Fellowship in 1966-67. His address is 3209 Cross Keys Drive, Florissant.

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Bill H. Reid is now at Georgia Tech as senior assistant sanitary engineer working toward a M.S. degree in sanitary engineering which he hopes to complete in August 1968. He is attending on a U.S. Public Health Service grant. The Reids live in Decatur, Georgia, 1984 Capri Drive. They have two sons, William and Mike.

2nd. Lt. Harry B. Morgan is assigned to the Army Air Defense Command Headquarters at Ent Air Froce Base, Colorado. He will be a staff officer in the Directorate of Engineering Construction and Installations Division of ARADCOM Headquarters.



2nd Lt. Harry B. Morgan

Harry John Leamy received his Ph.D. in Metallurgy from Iowa State U. in August.

1964

Otis L. Barchers is in the Central Engineering Department at Monsanto Company world headquarters St. Louis, Mo. He is in the electrical design section. The Barchers and their two sons,

Rick Leroy and Dean Henry live in Ballwin, Mo.

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1st. Lt. Curtis W. McBride has received the U.S. Air Force Commendation Medal. The decoration was for meritorious service as an aircraft maintenance officer. He is now assigned in Vietnam.

Michael E. Meehan is assistant superintendent of terpene operations, Union Camp Corporation's chemical division, Jacksonville, Florida. He was with Du Pont for 3½ years and in November resigned to accept his present position. His wife, Sue, will graduate from Lamar Tech., in Beaumont, Texas, in January. Their Jacksonville address is 3910 Bogata Drive.

Larry L. Parkinson has been transferred from the slab zinc department, as refining foreman, at The New Jersey Zinc Company, Palmerton, Pa., to manufacturing technical group, as metallurgical engineer II. He is working on a Master's in Business Administration at Lehigh University, part-time. His Palmerton address is 240 Columbia Avenue

William D. Loth is senior research engineer Esso Production Research Co., Houston, Texas. He was awarded his Doctor of Science degree at New Mexico State U., in September. His Houston address is 3131 Cummins Lane, Apt. 39.

1965

Richard D. Cleve has rejoined Pittsburgh Plate Glass Industries, Works Nine, at Crystal City, Missouri, after returning from two years service in the U.S. Army Engineers in Korea. He is in PPG's Management Training Program. The Cleves reside in the La-Bon Townhouse Apartments, Festus, Missouri.

Noland R. Durnell resigned from the Illinois Division of Highways as a civil engineer II in construction to accept a position as a GS-9 civil engineer with the U.S. Forest Service in charge of construction contract inspection and management. His address is Route No. 2, Box 25-C, Delta, Colorado.

1st Lt. Carlton T. Lewis has been December 1967

awarded the Bronze Star Medal for distinguishing himself on active duty in Vietnam since September 1966. Lt. Lewis requested a three month extension of his service to complete the work he started. He expects to be back in the states in December.

1st. Lt. David E. Henard received the Air Medal near Ch Chi, Vietnam, October 29. The award was presented for his combat aerial support of ground operations in Vietnam. He is a communications officer in the 25th Aviation Battalion, 25th Infantry Division.

Martin Paul Goldstein has received his M.S. degree in Physics from Case Institute of Technology, Cleveland, Ohio and is now in product development engineer at Corning Glass Works. His address is 3084 Livingston No. 38, Cleveland.



Ronald J. Bohac

Ronald J. Bohac has been transferred to the field sales force of Harbison-Walker Refractories Company and assigned to the St. Louis sales district. He has been with Harbison-Walker

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If your address has changed, complete and tear out this slip and mail it immediately to MSM Alumni Association, Rolla, Mo. Thanks.
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Here's Some News for the MSM ALUMNUS:

since graduation in metallurgical engineering.

D. Franklin Giger completed 2 years active duty as Lt. in the U.S. Army in Korea, with the 802 Engineer Bn. and Troop Command, Ft. Ord, California and is now in training as an industrial engineer with Procter & Gamble, in St. Louis, Mo. While in the Army he visited Brazil, Canada, Thailand, Japan, Panama and Ecuador. His address is 453 Park Ave., Webster Groves, Mo.

1966

1st. Lt. Ranney W. McDonough is assigned to the 187th Assault Helicopter Company, in Vietnam. He is a rotary wing aviator. His wife, Anne, lives at 327 Illinois Avenue, Sikeston, Mo.

Lease A. Ruddick is assistant soils engineer with Edwards and Kelly, consulting engineers, Newark, N.J. He will complete requirements for a M.S. degree in civil engineering at Rutgers University in January, 1968. On August 19, 1967, Lease and Miss Ruth Ellen Smith of Jamesburg, N.J. were married. Lease expects to enter active duty with the U.S. Army next April at Fort Lee, Virginia. The Ruddicks' address is 23 Dix Street, New Brunswick, N.J.

James G. Yallaly will depart in January for Vietnam. He is a 2nd. Lt. in the Corps of Engineers with the 41st Engineer Company, APO San Francisco 96491.

Leslie A. Pollack, 2nd Lt. U.S. Army, expects to be transferred to the 169th

Engr. Bn. (Const) in Long Binh, Vietnam for a one year tour of duty. His state-side mailing address is Box 175, Monticello, N.Y.

1st. Lt. James H. Schlosser is assigned as aide-de-camp with Brigadier General T. J. Camp, Jr., in Korea with the 7th Infantry. His tour of duty in Korea is expected to end early in 1968 and plans are for his return to Ft. Leonard Wood, Missouri, at the Army Training Center.



1st Lt. James H. Schlosser

Loy D. Roberts is with Emerson Electric Company, St. Louis, Mo. The The Roberts live at 507 Harmony Lane, O'Fallon, Mo. Mrs. Roberts is the former Sharon Mayfield, of Rolla. They have one daughter, Bridget.

2nd. Lt. Theodore M. Fiedler has been assigned to the 5th Region, Army Air Defense Command at Gunter Air Force, Base, Alabama. He is an engineer staff officer in the region's Headquarters.

Private James B. Perkins took his basic combat training at Ft. Campbell, Kentucky.



James B. Perkins

2nd. It. Stanley D. Thompson has completed an ordnance officer basic course at the Army Ordnance School, Aberdeen Proving Grounds, Maryland. The training was in the ordnance mission of supplying and maintaining the Army's weapons and combat vehicles.



2nd Lt. Stanley D. Thompson

MSM ALUMNI ASSOCIATION

ROLLA MISSOURI

TO

1967

Gary Lee Kelso is in the Army and assigned at Fort Greely, Alaska, at a testing station and he will be involved in chemical engineering work. He is on leave from the Bendix Corporation. Gary is married and Mrs. Kelso is living at 4110 South Woodland, Independence, Missouri.