



Missouri S&T Magazine, December 1970

Miner Alumni Association

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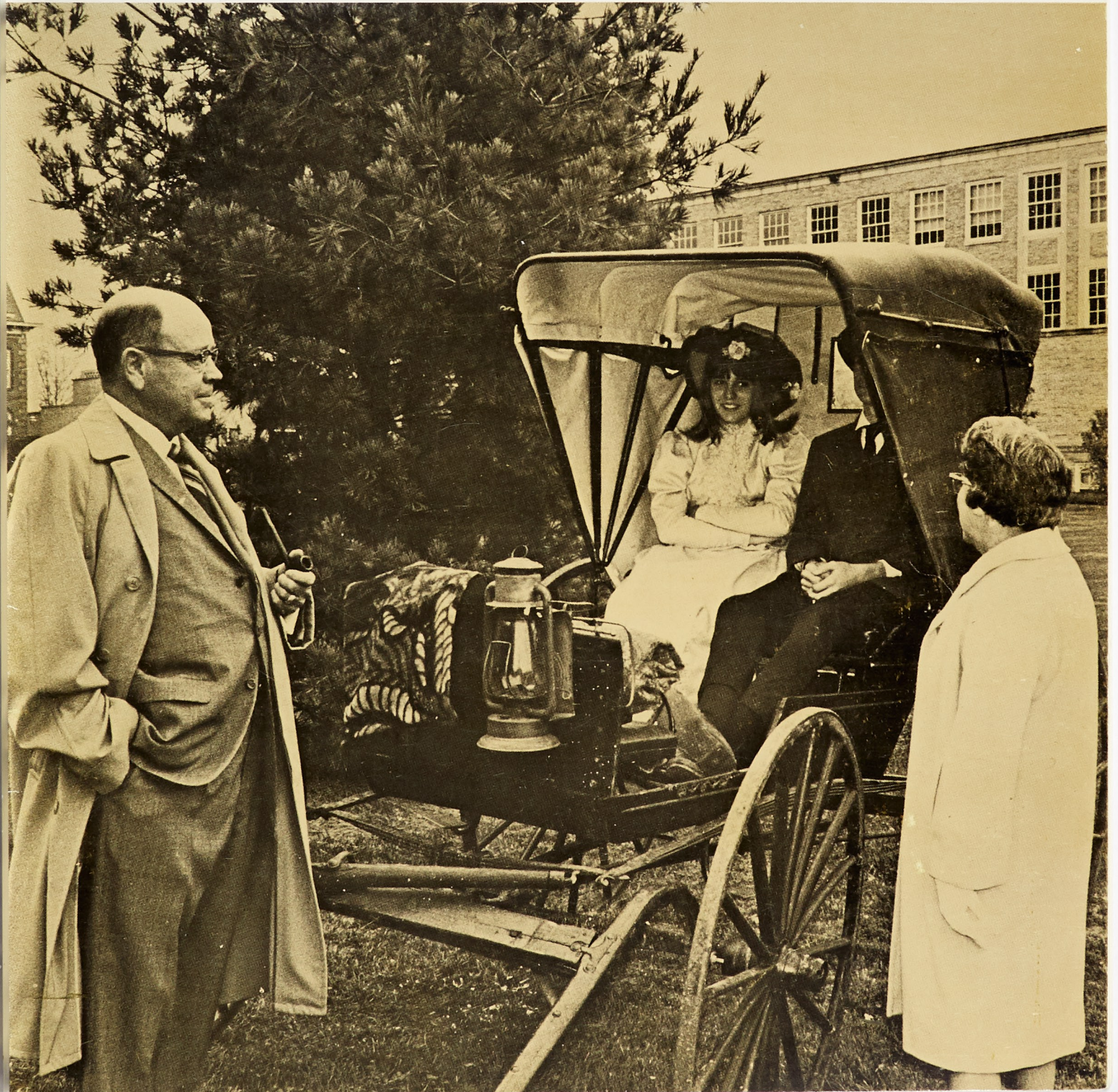
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Alumnus

DECEMBER 1970

UNIVERSITY OF MISSOURI - R O L L A



MSM

Alumnus

MSM Alumni Association
University of Missouri - Rolla
Rolla, Missouri 65401

Volume 44
December 1970
Number 6

ON THE FRONT COVER



Mr. and Mrs. Tom O. English view the Homecoming decorations on the lawn of the Chancellor's Residence. Chancellor and Mrs. Baker hosted the '45, '40, '35, '30, '25 and prior classes at a Continental Breakfast on Saturday morning. Alumni Awardees also attended. Decorations emphasizing the Centennial theme were designed and executed by Mrs. Paul Dean Proctor.

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

MSM Alumni Association

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

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Editor, "MSM ALUMNUS"	MSM Alumni Association, Grzyb Building,	9th & Rolla Streets, Rolla, Missouri 65401
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2	Dr. Larry E. Farmer '61 Box 453 Social Circle, Georgia 30279	S. Ark., N. C., S. C., La., Miss., Ala., Ga., Fla.	1972
3	O. W. Kamper '35 5 Woodland Drive Pittsburgh, Pennsylvania 15228	Pennsylvania, W. Va., Ohio, W. Pa., Ky., Tenn., Ind. (Except Chicago Industrial Area)	1972
4	Frank C. Appleyard '37 808 Solar, Glenview, Illinois 60025	N. Ill., Chicago Industrial Area in Indiana, Wisc., Mich., Minn., Province of Ontario	1972
5	James B. McGrath '49 Fruin-Colnon Contracting Co. 1706 Olive Street St. Louis, Missouri 63103	S. Ill., E. Mo., N. Ark.	1973
6	John A. Walker '50 Armco Steel Corp., 7100 Roberts, Kansas City, Missouri 64125	Iowa, W. Mo., Nebr., Kan., Okla.	1971
7	Robert M. Brackbill '42 Texas Pacific Oil Company 1700 One Main Place Dallas, Texas 75250	Texas, Arizona, New Mexico	1973
8	George J. Decker '39 Star Rt. 2, Box 340 Evergreen, Colorado 80439	Ida., Montana, N. D., S. D., Wyo., Colo., Nev., Utah, Provinces of Manitoba, Sask., Alberta	1972
9	E. Murray Schmidt '49 3011 Marina Drive Alameda, California 94501	Alaska, Washington, Oregon, California, Hawaii	1973

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MSM Alumnus

Homecoming '70

This had to be the best yet. More people having more fun, beautiful weather, fall colors at their best and Thomas Wolf was wrong, you can come home again.

This was a busy time, scheduled events, impromptu parties, open houses, the works.

Each Homecoming has its particular flavor, not many will forget Armin "Big Tuck" Tucker '40, who made all the events in the company of one or the other of his sisters still living in Rolla. They took turns so they could keep up

with him. This Class of '40 member still has a smile on his face every minute.

There were bigger crowds at the Welcoming Dinner, on Friday, and the Awards Banquet, on Saturday, than ever before. This was the first year of the "no speeches" policy. Jim Murphy M.C.'d both nights and he kept things going. He closed each affair with his traditional announcement of the after dinner conviviality hour, two hours, three hours, all hours.

The Chancellor Bakers' entertained

the 25th-year and prior reunion classes at the residence, on Saturday morning, for a continental breakfast before the University Center groundbreaking. Some attendees appeared subdued.

Now is the time to make your plans for Homecoming 1971, October 15 and 16.

We know that George Axmacher '42 is making plans for his group. He's been doing it for several years and probably Joe Gray '54 will make it three in a row for his friends.

Make it a point to get in on the fun, '71.

Queen Crowned

Miss Mary Ann Folkl, of St. Louis, Missouri, was crowned homecoming queen of 1970.

Miss Folkl is employed as a secretary at the Aeronautical Chart and Information Center in St. Louis. In the queen competition she represented the Delta Sigma Phi social fraternity.



Homecoming Queen Miss Mary Ann Folkl with the Alumni Association's President James J. Murphy who presented her with the crown for this honor.

A total of 30 girls competed for the title in on-campus interviews. The candidates were nominated by UMR fraternities, dormitories, eating clubs

and other organizations. Miss Folkl was crowned queen at half-time ceremonies at the UMR-Springfield Bears football game.

Runners-up for the title were: Mrs. Teresa Ann Powell, UMR student's wife from Alton, Illinois, representing the Triangle fraternity, and Miss Cindy Gierer, of Maryland Heights, Mo., representing Kappa Alpha.

Association Board Meets

On October 23rd, during Homecoming week-end, the Board of Directors of the Alumni Association met at the Sugar Tree Club, west of Rolla on the Gasconade River, as guests of James J. Murphy.

Present at this record breaking attendance gathering were: James J. Murphy '35, President; Peter F. Mattei '37, Executive Vice President; Lawrence A. Spanier '50, Area Vice President; Joseph W. Mooney '39, Area Vice President; Thomas R. Beveridge '42, Secretary-Treasurer; Rex Z. Williams '31 and Hans Schmoldt '44, Directors at Large; Area Directors O. W. Kamper '35, Frank C. Appleyard '37, Richard H. Bauer '52, John A. Walker '50, Robert M. Brackbill '42, and George J. Decker '39. Past Presidents Dr. Karl F. Hasselmann '25; Melvin Nickel '38; and Paul Dowling '40. Also attending

on the invitation of President Murphy were Guy H. Entsminger, Vice President for Development, University of Missouri; F. Stillman Alfred '17, Chairman of the Chancellor's Task Force for the University Center, Chancellor Merl Baker. James McGrath '49, the newly elected Director for Area No. 5. Francis C. Edwards and Frank Mackaman represented the staff functions for the Association and the University.

The business of the Association was transacted and a budget of \$54,500.00 was adopted for the 1970-71 year.

The results of the election by mail were certified and the following Directors were elected: John B. Toomey '49, Director, Area 1; Robert M. Brackbill '42, Director, Area 7; E. Murray Schmidt '49, Director Area 9, and James B. McGrath '49, Director, Area 5. The term of office for each is three years.

1971
Alumni Fund
Send Your
Contribution
Today

University Center Ground Broken

Chancellor Merl Baker; Associate Dean Bill Atchley, Director of Centennial Events; Jim Beilstein, Student Union Board President; and National Task Force Chairman, F. Stillman Alfred, officiated in the University Center groundbreaking ceremonies, Saturday, October 24, during Homecoming. Several hundred students, alumni, faculty and townspeople gathered on Lot 21 south of the present Student Union to witness the affair.

The University Center will be constructed in two phases with Phase I beginning as soon as \$100,000 in additional cash is collected from outstanding corporate and alumni pledges. The total private gifts toward Phase I will be \$430,000. The balance of the \$2,090,000 construction costs of Phase I is financed through student fee allocations and student bonds.

F. Stillman Alfred '17, Chairman of

Student Fees Increased University Center Aided

The Board of Curators has approved a raise in the student union fee and changes in the student activity fee policy for UMR. Changes are effective for the spring semester.

The Board approved a \$7.00 per semester student union fee increase, supported by a student vote held on the campus, to help finance the construction of the new University Center. A \$3.50 increase was approved for the summer session.

Changes in the student activity fee affect who shall pay the fee and how much they will pay. In the past, students enrolled for 10 or more semester hours paid the entire student activity fee. Graduate students were not required to pay the fee. Now, after Board approval, all students, including graduate students, will pay all or part of the fee since they have advantages of the program which these fees provide. Students enrolled in less than eight hours will pay a fee which is pro-rated, based upon the number of credit hours they are carrying.

The Student Union fee increase represents a rise from \$11.00 to \$18.00 per semester for students carrying 10

the Fund Drive, has asked all who have pledges toward the completion of the Center to accelerate cash payments whenever possible. The Task Force continues to seek additional pledges from every source so that Phase II, requiring an estimated \$890,000 in private gifts, can be started immediately following Phase I.

Alfred, in remarks made at the Awards Banquet Saturday evening during Homecoming, stated that, it was vital to the needs of students to have the Center but that the magnitude of the task made it beyond the efforts of a few. Students, who have voted additional fees upon themselves, have demonstrated their understanding of the need and alumni should now add their gifts and pledges, he said. Inquiries should be directed to A. J. Miles, coordinator, Centennial Priority Campaign, UMR, Rolla, Mo. 65401.

or more credit hours. The Student Union fee for the summer session increases from \$5.50 to \$9.00 for students carrying five or more credit hours. The fee for partial enrollment is calculated at the rate of \$1.80 per credit hour or a fraction of an hour.

All students, including both graduate and undergraduate students, will pay a student activity fee. For students carrying eight or more credit hours, the fee will be \$30.00 for the first semester (which includes a yearbook fee of \$7.00) and \$23.00 for the second semester. The summer session fee, which has been \$6.75 in the past, changes to \$1.00 per credit hour. The students carrying six hours or less and graduate students may purchase the yearbook at their option.

Students carrying less than eight semester hours pay a pro-rated student activity fee with the exception of the yearbook fee. Any student enrolled for a minimum of six, but less than eight hours, will pay a pro-rated fee which will entitle him to all rights and services provided for by the regular student activity fee, with the exception of admission to varsity athletic events.

These students will be allowed to purchase tickets to such events before the day of the event at half the price paid by the general public.

These students will be entitled to use all athletic facilities, including the golf course, and will receive a semester's subscription to the Miner, the student newspaper.

Any student carrying less than six semester hours may elect to pay the full student activity fee and to receive full benefit.

Rolla Night

Dr. Ted Planje '40, Dean of the School of Mines and Metallurgy, UMR, will be the speaker at the annual "Rolla Night" at the Engineers' Club of St. Louis.

Area high school students and their parents are invited to attend this program.

The Engineers' Club and the St. Louis Section of the Alumni Association sponsor this event.

The alumni and faculty gather for a social hour and dinner at 5:00 p.m., January 14, 1971, at the Engineers' Club before the meeting at 8:15 p.m.

Details available from Robert Sieckhaus, Secretary, St. Louis Section, c/o Nooter Corporation, 1400 S. Third Street, St. Louis.

Section News

There are two alumni sections that have monthly luncheons and the attendance is good. Alumni visiting in these cities are invited to attend these meetings as well as alumni living in the areas.

The Bartlesville, Oklahoma Area Section has a noon luncheon at the YMCA, the third Friday of each month. Contact the Section's President John Miles '61, 421 Highland, Bartlesville, for information.

The Rocky Mountain Section, Denver, Colorado, has a monthly luncheon, the first Tuesday of each month, dining at the Petroleum Club, Denver. Contact George J. Decker '39, Tel. 266-1368, for information concerning these meetings.

MSM Alumnus

Alumni Award Recipients



Thomas O. English



Dean T. J. Planje



Paul Munger



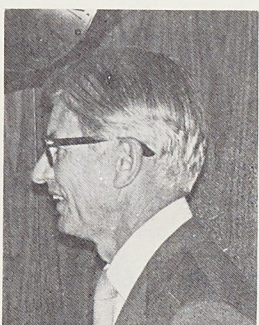
Herman Fritschen



Mrs. Louise Tucker



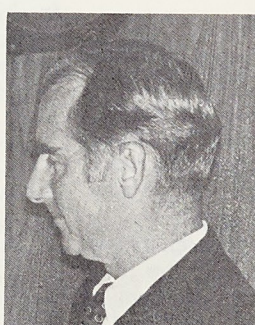
Dr. Karlheinz Mulhbauer



Maj. Gen.
Walter P. Leber



F. Stillman Elfred



Marvin "Bob" Nevins



Rodney Schaefer

The Alumni Awards Banquet was held Saturday night, October 24, the final official alumni activity of Homecoming weekend.

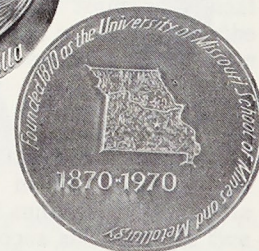
This year eleven individuals were recognized for their achievements.

Alumni Service Awards were received by F. Stillman Elfred '17, St. Louis, Missouri, retired Chairman of the Board, Peabody Coal Company and Chairman, Chancellor's Task Force for the University Center and Herman Fritschen '51, Tulsa, Oklahoma, President, Tulsa Section of the Alumni Association, and Chief Engineer, Cities Service Oil Company.

Alumni Achievement Awards were presented to Thomas O. English '29, Pittsburgh, Pa., Vice President and General Purchasing Agent, Aluminum Company of America; Walter P. Leber

'40, Balboa Heights, Canal Zone, Major General U. S. Army, Governor, The Canal Zone; and Marvin (Bob) Nevins '41, Waukesha, Wisconsin, President, Wisconsin Centrifugal Foundry, Inc.

Alumni Merit Award recipients were: Rodney Schaefer '47, Rolla, Missouri, Associate Professor, Engineering Mechanics, UMR; Dean Theodore J. M. Planje '40, Rolla, Missouri, Dean, School of Mines and Metallurgy, UMR; Dr. Karlheinz Muhlbauer '56, Rolla, Missouri, Associate Professor, Engineering Mechanics, UMR; Paul Munger '58, Rolla, Missouri, Associate Professor, Civil Engineering, UMR; Dr. William James, Rolla, Missouri, Professor of Chemistry, Director Graduate Center for Materials Research, UMR; and Mrs. Louise Tucker, Rolla, Missouri, Assistant Registrar, UMR.



The Centennial Medallion

To order your medallion, make your check payable to the MSM Alumni Association and send to the Alumni Office, University of Missouri - Rolla. The cost is \$7.50 for a mail order. Orders will be handled on first come first served basis.

What Determines the Characteristics Of a College or University Campus

Each year the American Council of Education (ACE) conducts a profile study among entering freshmen at most major colleges and universities across the nation. I am delighted to be able to tell you this survey shows the new student here to be considerably above national norms in several categories.

This suggests, at least to us, that quality attracts quality. That is, the particular characteristics of an institution of higher education tend to attract students with special characteristics. And these young students, in turn, enable their own characteristics to be mixed into the institution's character which very gradually changes the total institutional profile. So it is extremely important to a quality university that it attract top students since they play a vital role in a campus' overall development.

Certainly the type of student attracted to a particular institution has a great impact on the character of that institution, but the faculty and administration also have a significant impact. All of us know that the quality of the faculty is most important to a good education and the faculty does much to mold the institution.

Another important contribution to the character of an institution is its alumni. The alumnus is the end product and although his success depends upon basic skills and abilities, the influence of the institution where he was educated also has an impact.

Conversely, alumni can have an equally profound influence on the institution when they have advanced in their careers to the point of being able

to evaluate what was good about their education and what was deficient.

Accordingly, any institution needs to have interactions of various types with its alumni in order to reach its optimum strength. Appropriate interactions will enable the alumnus to take great pride in his college and the college to be proud of the alumnus. If this mutual respect does not exist, both the alumnus and the college are losers.

The University of Missouri - Rolla has been greatly influenced by its alumni and it seems apparent on many counts that a high degree of mutual respect exists. Alumni often express pride in the high academic standards which they knew at Rolla and this pride has aided our faculty and administration in maintaining high standards.

As an example, the ACE poll of 1970 entering freshmen revealed that 15.7 percent of the men and 22.2 percent of the women received National Merit recognition, in contrast to the national norms for four-year institutions of 8.2 and 8.3 percent, respectively.

Today's UMR students continue to exhibit the exceptional quality in mathematics which has been traditionally true, but their verbal ability is also above the university average. The Rolla campus was encouraged to move toward this better balance by many of you saying, "I wish that when I was at Rolla it had offered more courses in communication skills." We believe that today UMR has achieved this balance, and an even stronger academic program.

This ACE survey only reaffirms our continuing belief that those students attracted to this campus today are well-

qualified academically and have strong educational objectives. And we are confident that the character of our alumni has done much to influence the quality of student who is attracted here.

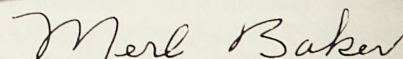
The more involved the alumni, the more their influence is felt. We need you back for "fun" occasions such as St. Pat's and Homecoming. We need your help in telling good students about the campus. We need your help in informing the legislators about the campus. And we need your help in numerous other projects designed to make the campus even better.

One such project is capital construction. Although many buildings have been added in recent years, are you aware that \$21,750,000 is needed now to adequately house existing programs? An additional \$4,750,000 is needed to meet estimated 1975 academic needs, plus another \$4,450,000 for service facilities. And there is \$20,200,000 more projected as estimated needs for the early 1980's.

These dollar values may seem idealistic, but recognizing that UMR ranks sixth nationally in both undergraduate and graduate engineering enrollments, we believe that you will agree that your institution is deserving of such support.

Your continuing interest and efforts in behalf of the University of Missouri - Rolla are most sincerely appreciated by the faculty, administration, staff and students.

Sincerely,



Merl Baker
Chancellor

MSM Alumnus

Search and Selection Committee

Pleasant R. Smith, president of the University of Missouri Board of Curators met with a 10-member Search and Screening Committee, on December 15, whose action is the first phase of the selection process which will lead to naming a successor to Dr. John C. Weaver, who has accepted the Presidency of the University of Wisconsin.

The two members of this committee from the Rolla campus are: Dr. William J. James, professor of chemistry and director of graduate center for material research, and Dr. Theodore J. Planje, dean of the school of mines and metallurgy.

In his charge to the committee, Smith asked the group to actively solicit recommendations from a wide variety of sources such as faculty, students and administrators, both of the University of Missouri and other institutions, as well as from alumni and professional colleagues and acquaintances. He particularly noted that the Board is concerned with the necessity of receiving recommendations from students of the four campuses and directed the committee to devise means for receiving and considering student opinions and suggestions.

Smith also told the committee that it should come up with a list of not less than eight nor more than 15 names of prospects to submit, without ranking, to a Selection Committee to be named later by the Board. The Selection Committee in turn will reduce this list to two to five names and present them to the Board, which will make the final selection.

The committee was cautioned that it is not to conduct interviews with prospective nominees nor should the committee attempt to determine the availability of nominees and the necessity of keeping its considerations in confidence.

"Leaks and announcements before a decision is made invite premature judgments by faculty, administrators, alumni, the community and the state — judgments which can hurt if not ruin a nominee's chances or bring pressures on the selection committee and the Board," Smith said.

December 1970

Lasater Winter Commencement Speaker

The Winter Commencement exercises were held in the Multi-Purpose Building, Sunday, December 20.

Donald E. Lasater, chairman of the board and chief executive officer of the Mercantile Trust Company, St. Louis, was the commencement speaker and discussed with the graduates, "The Changing Values in Our Society."

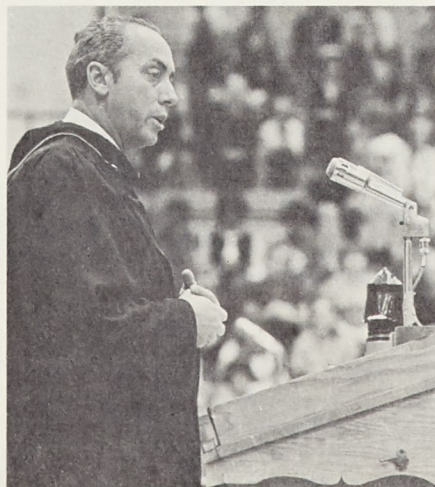
About 600 students were awarded bachelor of science, bachelor of arts, master of science and doctor of philosophy degrees in the ceremony.

Bruce Boundy Strang, of Waynesville, Missouri, was graduated with highest honors at the Winter Commencement.

Strang is a geological engineering student and has held several scholarships at UMR including Curators Scholarships, and ROTC Scholarship, and the V. H. McNutt Scholarship. He is a member of the Scabbard and Blade, the C. L. Dake Geological Society, Independents, Rock Climbers Club, 59ers Club and the Association of Engineering Geologists.

His honorary organizations include Phi Kappa Phi, Phi Eta Sigma and Tau Beta Pi.

He has been designated as a distinguished military student and has received the superior cadet decoration at UMR.



Donald E. Lasater

Fort and Smith Nuptial

Miss Edith A. Fort, of Rolla and Hueston M. Smith '38, of St. Louis County, were united in marriage, Saturday, December 12, 1970 in the Webster Groves Christian Church. Dr. William McCallister performed the ceremony.

Attendants were Mr. and Mrs. Walker E. Case of St. Louis, an uncle and aunt of the bride.

Mr. Smith is owner of the consulting engineer firm, Hueston M. Smith & Associates, in St. Louis.

Mrs. Smith will be remembered by many alumni as she is an employee of the University of Missouri - Rolla.



This is a black and white print of the recently approved "official" Miner for UMR. A limited supply of prints of this original Miner drawing are available. These are in beautiful four color, on a heavy 8½" x 11" art stock and are ready for framing. If you would like a print, send along \$1 (including postage) with your name and address to the MSM Alumni Association, University of Missouri - Rolla.

ALUMNI SECTION NEWS

Cincinnati-Dayton Area Section

The Cincinnati-Dayton Section of the Alumni Association held their fall meeting at the Golden Lamb Inn in Lebanon, Ohio, November 6.

The Section's President, Harold Kosten '60, presided at the dinner meeting. After a delicious dinner, a short business meeting was held. Mike Browne '67, was elected President; Dick Okenfuss '58 was chosen Secretary and the new Treasurer is David Lee '68, who was able to report that after all meals were paid, the Section was still solvent. The University visitors were guests of the Section for dinner. A Section directory will be published in the next few weeks. Vice President Eldon Kibbey '66, recovering beautifully from President Harold's introduction which prematurely disclosed his nebulous matrimonial plans, reported on the Section's school visitation efforts to contact prospective students. The Committee felt their efforts were worthwhile and they hope to expand to the Cincinnati area this fall.

The campus film, "Football Highlights of '69" was shown. This 16 mm sound-color production featured campus scenes as well as outstanding plays from the 7-2 record-breaking team of '69. The audience was able to pick out the films from the 2 losses as they were the only clips that didn't report the final score.

Dean Ted Planje then spoke of the University and the School of Mines and Metallurgy which he heads. Frank Mackaman then reported on the expanded programs of the Alumni Association.

Harold Kosten was presented an inscribed gavel by the members of the Section in recognition of his yeoman

efforts to organize and promote the Section which is now one of the most successful in the country.

Among the some seventy-five present were. Mr. and Mrs. Joe Aid '58, Mr. and Mrs. Jerry Arnold '60, Mr. and Mrs. Larry Boberschmidt '66, Mr. and Mrs. Gary Bowron '66, Mr. and Mrs. David Brewer '69, Mr. and Mrs. Mike Browne '67, Mr. and Mrs. Kenneth Cole '54, Mr. and Mrs. Ev Collier '55; Mr. and Mrs. Ed Comerer '49, Mr. and Mrs. Truett DeGeare '67, Mr. and Mrs. Dick Frautschi '50, Mr. and Mrs. Bill Gerhart '61, David Grosse '69 and guest, Joe Grothaus '51, Mr. and Mrs. Mike Hardy '67, Mr. and Mrs. Tony Hoelker '68, Mr. and Mrs. Joe Kasten '66, Eldon Kibby '66 and guest, Mr.

and Mrs. Ed Koch '63, Mr. and Mrs. Harold Kosten '60, Mr. and Mrs. David Lee '68, Dennis Lenhardt '70, Mr. and Mrs. Joe Moore '69, Mr. and Mrs. Jack Munsey '67, Mr. and Mrs. Dick Okenfuss '58, Mr. and Mrs. Dick Paul '66, Mr. and Mrs. Dennis Peaveler '68, Mr. and Mrs. Mathew Quinn '60, Mr. and Mrs. Dick Raby '66, Wendall and Ann Riddler, Mr. and Mrs. James Roux '41, Mr. and Mrs. Glen Sutton '49, Mr. and Mrs. Mike Twele '61; Mr. and Mrs. Landon Viles '49, Alvin Wansing '69, Bill Weber '62, Tom Zenge '69 and guest.

Unfortunately several longtime members of the Section were ill with the flu and could not be present including the Will Brewers, Pete Balsers and Craig Ellis.

St. Louis Section's Summer Party



More than 200 attended the St. Louis Section's Summer Party at the home of James J. Murphy. This is a few of the distinguished guests at the gala occasion. Standing (left to right): Peter F. Mattei '37, Executive Vice President of the Alumni Association; Pleasant Smith, President of the Board of Curators, U. of Mo.; Judge Robert Brady, Member of the Board of Curators, U. of Mo.; James J. Murphy '35, President of the Alumni Association; Chancellor Merl Baker, UMR; Alan Shaffer '66, President of the St. Louis Section. Seated (left to right): Mrs. Baker, Mrs. Mattei, Mrs. Murphy. Mrs. Smith, Mrs. Brady, Mrs. Shaffer.

Prospective Freshmen

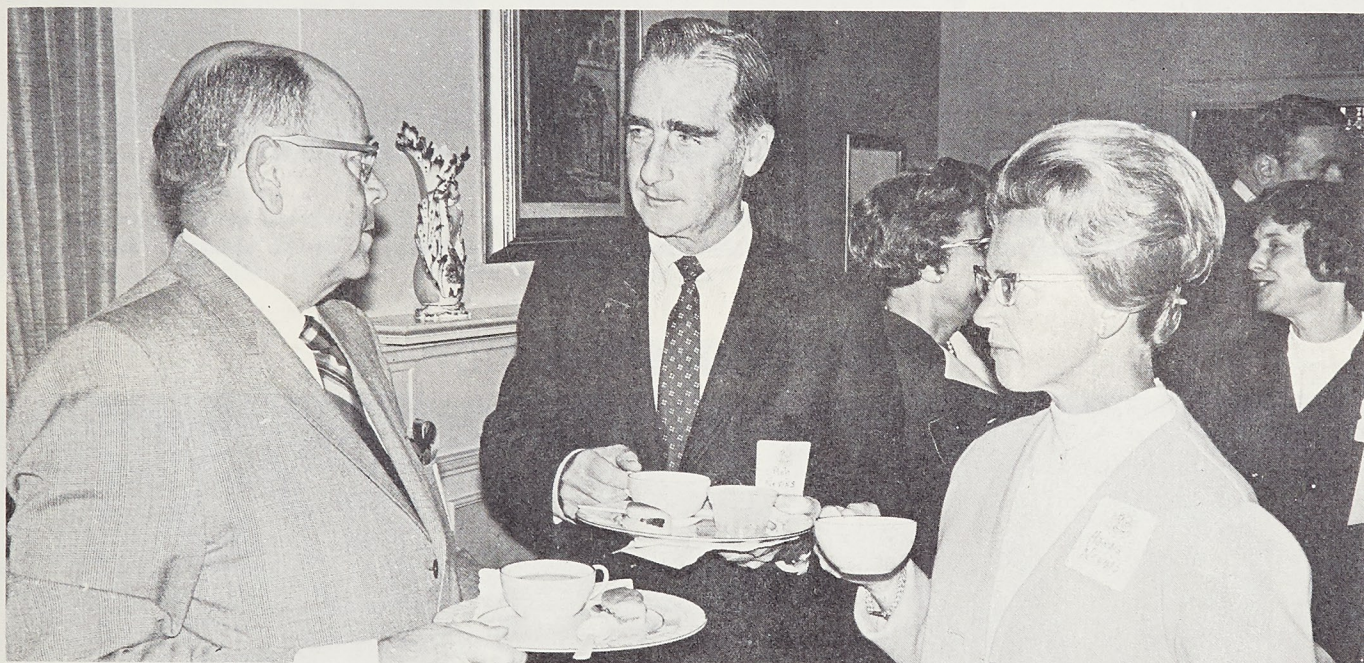
The University needs your assistance in locating talented young people interested in Engineering, the Physical Sciences and the five Bachelor of Arts degrees offered. Would you list below the names of the students with whom you are acquainted that might wish information in these programs.

NAME	AREA OF INTEREST	ADDRESS	DATE OF GRADUATION
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Submitted by: Name _____ (PRINT) Department _____ Date of Grad. _____

Address _____

*Send to Admissions Office, University of Missouri - Rolla, Rolla, Missouri 65401



Alumni Award recipients Thomas English (left) and Marvin "Bob" Nevin chatting at the Chancellor and Mrs. Baker's Continental Breakfast, Homecoming morning. Mrs. Nevin at right.

Alumni Meetings in New York

Two events in the New York area are planned for the coming months.

They will be held in conjunction with the annual meetings of the AIME and the IEEE. All alumni attending these meetings are invited to attend and alumni in the New York area who are not members of the AIME or IEEE will get a special invitation.

MSM-UMR alumni have traditionally held gatherings at the time of

national professional meetings as it is an excellent time for alumni from across the nation to get together with local alumni.

The east coast Vice President of the Alumni Association, Larry Spanier, is making the arrangements. There will be faculty and administrative officers from the Rolla campus at each function.

Watch for the notice in the official programs of the convention.

Join The
1971
Century Club

December 1970

At the Continental Breakfast



Clarence C. "Pete" Palmer (second from left) visiting with Professor R. F. Davidson (left) and Russell Gund (second from left) and Sammy Palmer, at the Continental breakfast at the Chancellor's Residence during Homecoming. Pete hosted the Class of 1940 Reunion Luncheon at Zeno's Steak House for some fifty guests. They all rated it as the best ever.

Roommates Reunion



Why wait until your class has a reunion? No reason, said the fellows that lived at Weise's on west 12th. Homecoming '70 saw the Prange brothers, Herb and Bob, Larry Casteel and Bill Busch and their wives get together where it all started, their friendship, that is. Bob Seibel, EE Professor at Montana State was the fifth member of the second story crew but he couldn't make it. Bob's roommates looked like they were having a whale of a time.

Reunion Luncheons 50 Year Club



The newly organized 50 Year Club attracted three members to their noon-day luncheon during homecoming. Left to right: Jim Murphy, the president of the Alumni Association (left) stops to wish them well; Harold A. Neustaedter '16, Walter Lottman '19, Mrs. Lottmann, and Frank E. Townsend '11.

Class of 1925



Standing (left to right): Hugh Berry, Ronald Ward, George Gabler, Mrs. Schneeberger, Mrs. Couch, Jamison E. Couch, Mrs. Irving, and Charles C. Irving. Seated (left to right): Fred Schneeberger, Dr. Karl Hasselmann, Mrs. Gabler, Mrs. Olive Morris, Mrs. John Schuman, and Carl J. Heim.

December 1970

Class of 1930



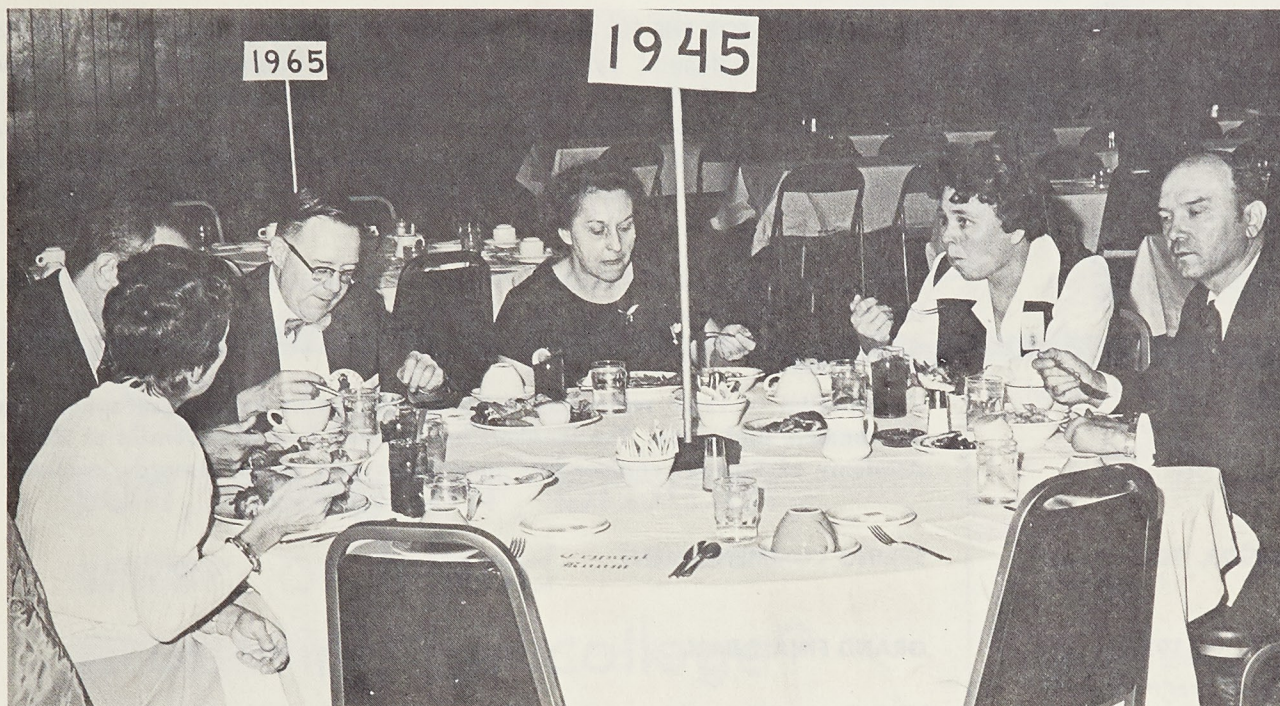
Standing (left to right): George Heath, Ren Beatty, Dr. Aaron J. Miles, John G. Roy, Elmer Cirkal, Karl Kaveler, Edwin T. Harvey, Col. Harry Kirkpatrick, W. E. Davis, and Charles Jennings. Seated (left to right): Mrs. Heath, Mrs. Beatty, Mrs. Roy, Mrs. Cirkal, Mrs. Kaveler, Mrs. Kirkpatrick, Mrs. Davis, and Mrs. Jennings.

Class of 1942



Seated (left to right): Mrs. Jones, Mrs. Jones' mother, Mrs. Brackbill, Mrs. Homyk, Mrs. Axmacher, George Axmacher, Mrs. McGhee, and Vernon McGhee. Standing, second row (left to right): Thomas A. Jones, Dr. Walter Schrenk, Nicholas Mushovic, Robert M. Brackbill, Anthony Homyk, Mrs. Kisslinger, Mrs. Busch, Mrs. Loessing, Mrs. Sandhaus, and Nick Nicola's daughter. Third row (left to right): Dr. Fred Kisslinger, William Busch, Col. Vernon Loessing, Elmer Sandhaus, Nick Nicola, and Frank Suessdorf.

Class of 1945



Left to right: Mrs. Webers, Harold F. Webers, Herman Schalk, Mrs. Schalk, Mrs. Murray, Robert E. Murray.

Class of 1960



Seated (left to right): Mrs. Edwin Lockridge, Mrs. James Berthold, James Berthold. Standing (left to right): Edwin Lockridge, Mrs. Alan Meskin, Alan Meskin.

C E N T E N N I A L E V E N T S

FEBRUARY 8, 9, 1971

TECHNOLOGY FOR THE FUTURE TO CONTROL INDUSTRIAL AND URBAN WASTES. This special Centennial Symposium will present outstanding representatives from industry, federal and state agencies, and universities who will discuss technological control methods now applied for water and solid wastes and point out the problem areas and industrial-educational needs of the future. Under the direction of Norman Hoeft and the Centennial Events Committee.

MARCH 19, 20, 1971

SPECIAL ST. PAT'S CELEBRATION — Theme of the parade — "Second 100 Years." Under the direction of advisor Dr. Virgil Flanagan and the St. Pat's Board.

APRIL 1971

SYMPOSIUM — Topic related to the next 100 years concerning space, earth environment and crime. The speakers are selected from presidencies of National Academy of Science, engineering, humanities and major research institutes.

MAY 23, 1971

SPRING COMMENCEMENT.

MAY 1971

GRAND FINALE BALL.

University - Industry Cooperation

The first meeting of the UMR Industrial Advisory Council was held on the campus October 27.

This informal group has been organized so that, as Chancellor Merl Baker states, "these business leaders can translate for our campus the technical and scientific requirements of industry which will better enable us to serve industry."

The volunteer group was organized this summer, W. A. Davis, vice chairman of the board for the Emerson Electric Co., was elected president of the council. Serving with him are nine other executives from St. Louis area industries. They are: Kendall Perkins, vice president, research and development, McDonnell-Douglas Corp.; Harold E. Thayer, president and chairman, Mallinckrodt Chemical Works; R. R. Shockley, vice president, Southwestern Bell Telephone Co.; John Gillis, senior vice president, Monsanto Co.; Adm. (ret.) E. J. Peltier, president, Sverdrup & Parcel Associates, Inc.; Charles J. Dougherty, president, Union Electric Company; Nicholas P. Veeder, chairman of the board, Granite City Steel

Co.; A. J. O'Brien, vice chairman, Ralston Purina Co.; Donald E. Lasater, president, Mercantile Trust Co. N. A. The group will later be expanded to include industrial leaders from other Missouri cities and possibly from out of state.

At the meeting, these industrial executives reviewed research now underway at UMR for possible industrial application. Among projects considered were several on air, water and noise pollution control, mass urban transport, use of waste glass in paving, industrial waste disposal, driver assistance control system and the housing industry.

Alumni Support Expanded

The Board of Directors of the Alumni Association at the annual meeting approved a \$1,000 grant-in-aid to the UMR music program.

It is intended to make the award annually and the money will be used to augment present student fee support

of this activity. Band Director David Oakley in his proposal to the board pointed out the need for assistance to students having leadership positions with the band and other performing groups. President Jim Murphy, who presented the check to Professor Oakley at the Awards Banquet, said that the board was pleased to recognize the contributions of those participating in the music program, and expressed the hope that this grant would enhance the efforts of all.

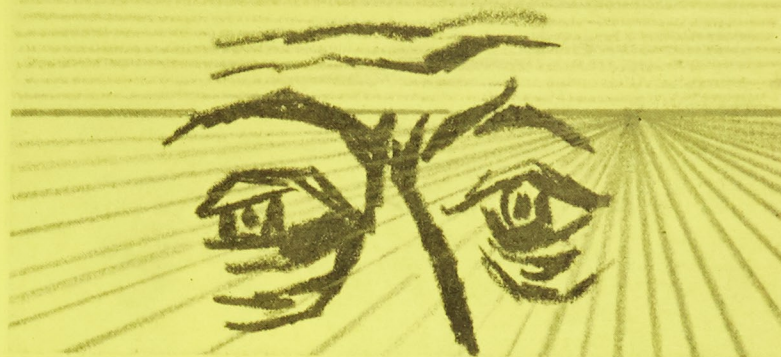
Suggestions Solicited

The Nominating Committee of the Alumni Association will be meeting in early March to prepare a slate of candidates for the election of officers, to be held by mail, in August.

The current officers and directors are listed on page two of this issue of the MSM ALUMNUS, and the year their terms expire.

Your suggestions of alumni to be considered for nomination are solicited. Names should be forwarded to the Nominating Committee, Alumni Office, University of Missouri - Rolla, Rolla, Missouri 65401. Please include any supporting material which will help the committee.

what will YOU do to mold the future?



DO YOU HAVE A
son, daughter, brother,
sister, or friend
preparing for college?
THEN RECOMMEND THE 1971
**Summer Careers
Institute**
BEGINNING JUNE 13

Designed especially for students entering their
Junior or Senior years in High School.

Registration Form: SUMMER CAREERS INSTITUTE, University of Missouri - Rolla
Please Return by May 1, 1971

Name _____
LAST FIRST MIDDLE INITIAL

Address _____
NUMBER STREET CITY STATE ZIP CODE

Telephone Number _____ Male
AREA CODE NUMBER Female

Entering _____ year in _____
HIGH SCHOOL CITY

Have you made a tentative career decision?
If so, indicate your interest or interests:

Please indicate your (1) first, (2)
second, and (3) third choice of
one-week sessions:

_____ June 13 - 18
_____ June 20 - 25
_____ June 27 - July 2

A choice of three one-week sessions:

June 13 - 18
June 20 - 25
June 27 - July 2

Cost:

Registration, Room
and Board \$40.00

Experience:

Personal contact with UMR fac-
ulty members and professional
counselors. In-depth inquiry into
specific fields of interest. Lectures
and demonstrations in the Car-
eer fields of:

Engineering

(School of Engineering &
School of Mines & Metallurgy)
Aerospace
Chemical
Civil
Ceramic
Electrical
Geological
Management
Mechanics
Mechanical
Metallurgical
Mining
Nuclear
Petroleum

Science

(College of Arts & Sciences)
Chemistry
Computer Science
Geology
Life Sciences
Mathematics
Physics

Liberal Arts

(College of Arts & Sciences)
Economics
English
History
Philosophy
Psychology
Sociology
Foreign Languages

Purpose of the Institute:

The Summer Careers Institute is designed to acquaint high school students beginning their junior or senior years with the scope, the possibilities, the challenges and rewards, and the responsibilities associated with careers in the various fields within the broad areas of Engineering, Science and the Liberal Arts. It will also outline course work and training required for qualification for these careers. Students will have the opportunity to survey possible careers in specific areas in some depth and will be able to discuss career objectives and opportunities in these areas with University faculty and professional counselors.

Program Content:

Each session of the Careers Institute will consist of a 5-day program of lectures, films, laboratory demonstrations, tours of facilities, and counseling sessions with University faculty members and professional counselors. Opportunities will be provided for both educational and recreational opportunities in the evenings. In general, the first four days will be spent in a sampling of problem analysis and solution in the three broad areas of Engineering, Science and the Liberal Arts and the fifth day will provide opportunities for in-depth investigation of a specific career opportunity.

Additional Information:

If you have any questions relative to the program, please feel free to write to:

**Dr. Jack H. Emanuel, Director
Summer Careers Institute
University of Missouri - Rolla
Rolla, Missouri 65401**

UNIVERSITY OF MISSOURI - ROLLA

Housing:

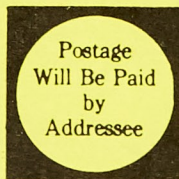
Excellent living and dining accommodations with separate supervised facilities for boys and girls will be provided at University residence halls.

Registration, Acceptance, and Fee Payment:

The Registration form should be completed and returned as soon as possible.

Every effort will be made to assign applicants to the one-week session listed as their first choice; however, space limitations may dictate that second or third choices may have to be used in some cases. Early submission of the registration form will improve chances of being assigned to the desired session.

Acceptance notices and detailed instructions for participation will be forwarded to applicants by return mail. At that time students will be requested to forward their registration fee to reserve their place in the Institute.



BUSINESS REPLY CARD
First Class Permit No. 163 Rolla, Missouri 65401

Dr. Jack H. Emanuel, Director
UMR Summer Careers Institute
P. O. Box 261
Rolla, Missouri 65401



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Note:

ALUMNI... return to your alma mater



Special Centennial Institute for Alumni

May 24, 25 and 26, 1971

"The Responsible Engineer in Today's Industrial Economy"

Registration Fee \$120.00

Includes luncheon & banquet

Interaction with President of the University, Chancellor and faculty.

PROGRAM

- I. Welcome —
Brice Ratchford, President
Merl Baker, Chancellor
B. R. Sarchet, Chairman
- II. The Engineer and the Economy
 - A. The U. S. Economy — 1971
 - B. The World Economy
 - C. A Forecast for the 70's
- III. The Changing Role of the Engineer
 - A. The Engineer as a Career Technologist
 - B. The Engineer as Manager in Industry
 - C. The Engineer as Controller of the Environment
- IV. The Decision-Making Tools of the Engineering Manager
 - A. New Concepts in Planning
 - B. New Concepts in Control
 - C. The Role of the Computer
- V. People, Organizations and Technology
 - A. The Efficient Organization
 - B. Leadership and Motivation
 - C. The Effects of Technological Innovation
- VI. The Engineer and Society
Discussion
Conclusion

Note: Case studies, films, and other management development techniques will be used to exemplify the concepts and procedures discussed.

The University of Missouri - Rolla is making available to alumni an interdisciplinary program recommended by the UMR Alumni Board and conducted by the engineering management department as a centennial event.

The Responsible Engineer in Today's Industrial Economy

His role as a manager,
techniques and concepts
for modern decision making

Engineering Management Department
Continuing Education Series
University of Missouri - Rolla

Registration Form: **UMR ALUMNI MANAGEMENT INSTITUTE**

Please return by May 10, 1971

Registration Fee \$120.00

Name _____
LAST FIRST MIDDLE INITIAL

Address _____
NUMBER STREET CITY STATE ZIP CODE

Phone _____ Year Graduated _____
AREA CODE NUMBER

Social Security Number _____
IF CONTINUING EDUCATION UNITS ARE DESIRED

Circle: My (wife) (family) (will) (will not) accompany me.

I am interested in other Continuing Education programs in the following fields:

I cannot attend this year but would be interested in future programs of this nature.

SPECIAL CENTENNIAL INSTITUTE FOR ALUMNI

THE RESPONSIBLE ENGINEER IN TODAY'S INDUSTRIAL ECONOMY

An interdisciplinary program recommended by the UMR Alumni Board and conducted by the Engineering Management Department as a Centennial Event.

During the past century of progress the University of Missouri-Rolla has educated and trained engineers and scientists to recognize and solve the demands of an industrial economy in an increasingly complex world. The intent of this Alumni Institute is to give the alumni of UMR a broad, descriptive background of what is new and important in industrial and governmental engineering administration. You will note from the content of the program listed on the front of this page that we will be discussing the latest management thinking for engineers in industry and government.

You will be presented managerial concepts from the Engineering Management Department's program, a curriculum established at UMR three years ago to supplement the technical engineering disciplines. According to the editors of "Nation's Business", 75% of the most mobile new managers have engineering or science degrees enhanced by advanced management development programs or degrees.

This Institute is the first of what we hope to be an annual professional education program for alumni. Send in the attached postcard now.

FOR FURTHER INFORMATION

On Program Content:

Professor B. R. Sarchet, Chairman
Engineering Management Department
University of Missouri - Rolla
Rolla, Missouri 65401

On Administrative Details:

John Short, Coordinator
Continuing Education Department
University of Missouri - Rolla
Rolla, Missouri 65401

GENERAL INFORMATION

Final registration will take place at the Conference Headquarters located in the East Unit of Carney Manor beginning at 3:00 p. m. on Sunday, May 23 and continuing at 7:30 a. m. on Monday, May 24. Conference Headquarters will be open for business during normal working hours and other times as needed.

Registration fee is \$120.00 and includes a luncheon and banquet. Advance registration may be made by filling out the attached postcard and dropping it in the mail.

TRANSPORTATION

Major airlines serve St. Louis Lambert Airport. From St. Louis, Skyway Airlines flies to Rolla National Airport at Vichy. There is Greyhound Bus service, direct from St. Louis Airport to Rolla. All major car rental companies, (Hertz, Avis, National) have offices at the St. Louis Airport. Interstate 44 is the four-lane divided highway between St. Louis and Rolla, (100 miles). It is a beautiful drive through the Ozarks.

Taxi service may be obtained from Rolla National Airport at Vichy by calling one of the following numbers: 364-1550, 364-1166, or 364-1234.

CONTINUING EDUCATION UNITS

2.0 continuing education units will be awarded for attendance at this institute.

Postage
Will Be Paid
by
Addressee

No
Postage Stamp
Necessary
If Mailed in the
United States

BUSINESS REPLY CARD

First Class Permit No. 164 Rolla, Missouri 65401

University of Missouri - Rolla
Continuing Education Dept.
I-44 and Highway 63
Rolla, Missouri 65401

Young Engineer of Oklahoma

Risdon W. Hankinson, an engineering specialist with Phillips Petroleum Company in Bartlesville, Okla., was the recipient of the Oklahoma Society of Professional Engineers "Young Engineer of the Year" award for 1970. The award was presented by OSPE President Richard Jackson, during the OSPE Annual Convention in Tulsa.

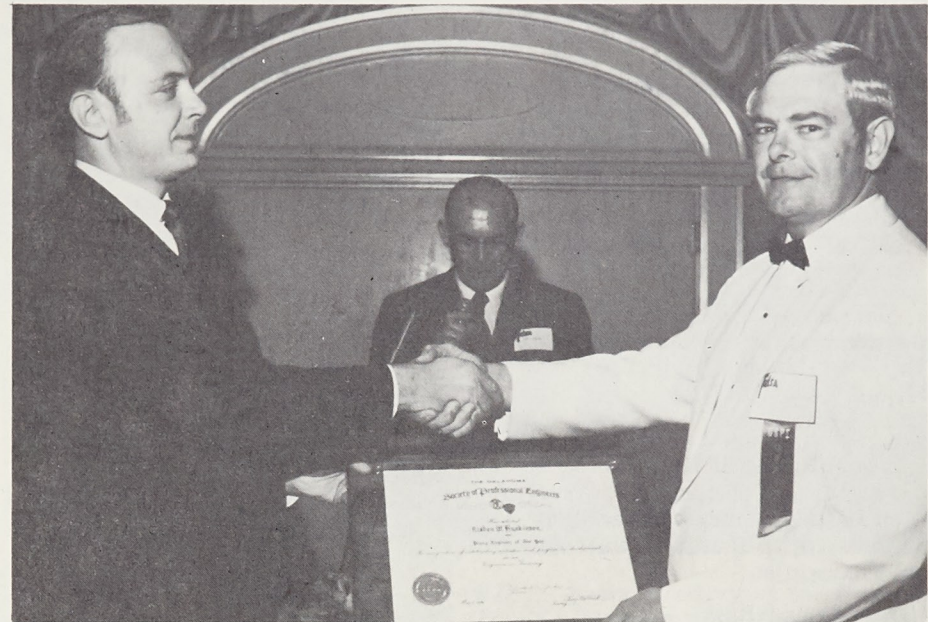
Hankinson is leader of the Thermodynamics Group in the Engineering Sciences Branch of the Computing Department of Phillips. In this position he has prime responsibility for the planning and development of computer programs for the generation of thermodynamics data for process calculations.

He has been active in professional and technical societies since early college days. He is a member of the American Institute of Chemical Engineers, presently serving as chairman of the local chapter Professional Development Committee, and has undertaken the planning and development of the first formal continuing engineering education program in Bartlesville sponsored by AIChE. He served on the local AIChE program committee during 1968-69 and he is a member of the Oklahoma and National Societies of Professional Engineers. He has also co-authored seven technical papers in the areas of physical properties, thermodynamics, and on-line chromatography. He is also very active in civic, church and educational activities.

Hankinson received his B.S. and M.S. degrees in chemical engineering from Rolla, and his doctorate from Iowa State University.

Scott Appointed Assistant Director-Mining

Dr. James J. Scott '50, former Chairman of the Department of Mining Engineering, at UMR, an internationally recognized authority in mining technology, has been appointed Assistant Director-Mining, Department of the Interior, Bureau of Mines, Washington, D. C.



Dr. Risdon W. Hankinson (left) and Richard Jackson presenting award "Young Engineer of the Year" for 1970, Oklahoma Society of Professional Engineers.

Dr. Scott fills one of the upper-echelon posts created during the recent reorganization of the Bureau. In his new position he has immediate charge of Bureau programs in mining research



and development, including mine health and safety and the Bureau's environmental work connected with mining. He graduated from the Wisconsin Institute of Technology in 1949, from Rolla in 1950 with a B.S. degree in Mining Engineering, a M. S. degree in

Mining Engineering from UMR in 1959 and a Ph.D. from the University of Wisconsin in 1962. He has served at UMR as professor and as Department Chairman of Mining and Petroleum engineering.

Dr. Scott, a native of Wiota, Wisconsin, before beginning his academic career, was a mining engineer for Bethlehem Steel corporation. Also, he has served as a consultant on mine management and rock mechanics for a number of firms in the minerals industry. He is the author of many articles for professional journals on stress in mine rock and rock mechanics.

He is a member of the American Institute of Mining, Metallurgical and Petroleum Engineers (AIME), American Mining Congress and other professional organizations. He is a registered engineer in Wisconsin and Michigan. While in Rolla he was active in university affairs and the Immanuel Lutheran Church.

Mrs. Scott is the former Edna Kettler, of Plattville, Wisconsin. They have five children. The daughters are Debbie, Wendy, Amy and Polly, and the son is Matt. Their new address is 7014 Westburg Road, McLean, Virginia.

Miners Become Society Fellows

The American Society for Metals established the honor of Fellow of the Society to provide recognition to members for distinguished contributions in the field of metals and materials and to develop a broadly based forum for technical and professional leaders to serve as advisors to the society.

The first 200 ASM members so recognized by their colleagues are listed this year. Additional Fellows may be elected to this distinguished body in subsequent years.

The following alumni were elected to Fellow of the Society among the first 200 chosen and they received the award October 18, 1970 at the Fellow Inaugural Convocation:

Dr. Edmund Burke '43
 Dr. Donald N. Frey '68 (Hon. D. E.)
 Muir L. Frey '23
 Elmer Gammeter '26
 Dr. William J. Kroll '58 (Hon. D. E.)
 Dr. Leo Schapiro '24

The Center Fold In This Issue

Your attention is directed to the special insert in the centerfold of the ALUMNUS. The Board of Directors of the Association is pleased to cooperate with the Extension Division in bringing you these programs. The Board has long recognized that many alumni are interested in continuing professional development and, in fact, have been participating in this type of program both on the Rolla campus and elsewhere. Also the Board is aware of the necessity of informing prospective university students of the opportunities available here and endorses the high school summer institute program as an extremely effective method for accomplishing this end. It is hoped that daughters and sons of alumni will take advantage of the Institutes and that you will take advantage of this chance to combine a return to the campus with attendance at a specially designed program for alumni, a program which is bound to increase your professional competence.



Left to Right: C. Kenny Hilterbrand, St. Pat's President; Rudolph Torrini, artist; James McGrath '49, dedication speaker; Dr. Merl Baker, Chancellor UMR.

St. Pat Statue Dedicated

Every year, St. Patrick, patron saint of the engineers, visits the campus during the March St. Pat's celebration. He comes portrayed by a UMR student, reigns over the celebration, and leaves for another year.

This year, he came in October, and he'll stay forever.

An eight and a half foot simulated bronze coated statue of St. Patrick was dedicated during homecoming celebration. It was placed in the UMR library

until the new University Center is completed, and then it will be transferred there.

The statue was donated to UMR by the St. Pat's Board in recognition of the continuity of the St. Pat's spirit throughout the years. Larry Benesh, St. Pat's Board publicity chairman, advises replicas of the statue will be made and sold by the Board for \$25.00 each. The money will be used to make St. Pat's festivities an even bigger event at UMR this year.

Dietz Awarded Highest Air Force Decoration

Robert O. Dietz '44, deputy director of technology at the Air Force Systems Command's Arnold Engineering Development Center, was awarded the Air Force's Exceptional Civilian Service Award. This is the Air Force's highest civilian decoration for public service. Under Secretary of the Air Force, Dr. John L. McLucas presented the award.

Dr. McLucas said that the award was in recognition of Dr. Dietz's distinguished service as director of the von Karman Institute for Fluid Dynamics at Rhode-Saint-Genese, Belgium from January 1966 through July 1970. The Institute is an aeronautical research institute of the North Atlantic Treaty Organization.

The award citation said that "Dr. Dietz conceived and implemented a five-year development plan under which the reputation and status of the institute showed marked growth. His leadership and administrative skills have advanced the Institute such that its capabilities and facilities are of unique value to NATO."

Dr. McLucas pointed out that under Mr. Dietz's direction the institute's full-time and part-time student bodies had increased; that productivity has been increased and that the research facilities and equipment had been significantly modernized.

He praised him for substantially increasing the research income for the institute; for his management and administration achievements despite restrictive budget limitations and for extracurricular professional activities which contributed to the stature of the institute as an international scientific teaching and research establishment.

Prior to appointment as vKI director, Mr. Dietz was a member of the Plans Division on AEDC's headquarters staff from 1957 to 1966. Previously he was project engineer specializing in ramjet and turbojet technology and assistant chief of the Engine Test Facility for ARO, Inc., operating contractor for AEDC.



HIGHEST USAF CIVILIAN AWARD — Under secretary of the U. S. Air Force, Dr. John L. McLucas, presents the USAF's Exceptional Civilian Service Award to Robert O. Dietz, deputy director of Technology for the Air Force Systems Command's Arnold Engineering Development Center.

He has a M. S. degree in mechanical engineering from the University of Tennessee and now he is doing graduate work toward a doctorate. He is a member of many professional societies and has authored a number of technical

articles and papers published and presented in the U. S. and on the continent.

He, his wife Justine and their four children live in Manchester, Tennessee.

The Alliance of Alumni Associations Of the University of Missouri

A unique alumni organization, designed to serve the needs of individual campuses as well as the total university, has been established by the alumni associations of the four campuses of the University of Missouri.

The organization is the Alliance of Alumni Associations of the University of Missouri, which officially came into being during the meeting of alumni representatives from each of the four campuses — Columbia, Kansas City, Rolla and St. Louis. The organizational meeting, held November 20-21 in Columbia, culminated a period of study and planning which stretched over a period of about two years.

The University of Missouri has about 160,000 alumni. While most are in

Missouri, many reside throughout the United States and all parts of the world.

"Formation of the alliance is going to permit a new dimension of service to the University of Missouri by its alumni," according to G. H. "Bus" Entsminger, Vice President for Development. "It in no way will intrude on the independency of the individual campus alumni associations. But the alliance will allow the alumni to speak as a single voice on many vital matters which affect the total University and thus pertain to all four campuses."

Entsminger cited an example already calling for action by the alliance. It is the naming of an alumni representative to the search committee being created by the Board of Curators to help in finding a new President of the Univer-

1970-71 UMR BASKETBALL SCHEDULE

Date	Opponent	Place
Dec. 2	Kansas State College (Pittsburg)	Rolla, Mo.
Dec. 5	Washington University	St. Louis, Mo.
Dec. 8	Southern Illinois Univ. (Edwardsville)	Edwardsville
Dec. 12	Harris Teachers College	Rolla, Mo.
Dec. 14	SEMS, Cape Girardeau	Rolla, Mo.
Jan. 4	Univ. of Wisconsin-Milwaukee	Milwaukee, Wis.
Jan. 9	NWMS - Maryville, Mo.	Maryville, Mo.
Jan. 11	NEMS - Kirksville	Kirksville, Mo.
Jan. 16	SEMS - Cape Girardeau	Cape Girardeau
Jan. 18	Lincoln University	Jefferson City
Jan. 20	University of Illinois - Chicago Circle	Chicago, Ill.
Jan. 23	School of Ozarks	Rolla, Mo.
Jan. 26	Missouri Valley College	Rolla, Mo.
Jan. 30	NEMS - Kirksville	Rolla, Mo.
Feb. 1	NWMS - Maryville	Rolla, Mo.
Feb. 6	SWMS - Springfield	Springfield, Mo.
Feb. 8	CMSC - Warrensburg	Warrensburg, Mo.
Feb. 13	University of Illinois - Chicago Circle	Rolla, Mo.
Feb. 15	Lincoln University	Rolla, Mo.
Feb. 20	SWMS - Springfield	Rolla, Mo.
Feb. 22	CMSC - Warrensburg	Rolla, Mo.
Feb. 26	Univ. of Wisconsin - Milwaukee	Rolla, Mo.

sity to replace Dr. John C. Weaver. At its recent meeting, the alliance designated a 4-man committee to select the alumni representative who will aid in the search.

Entsminger said that, as far as he knows, the alliance now functioning at the University of Missouri is the first alumni organization of its type in America for a multi-campus university. He praised the campus associations for their willingness and wisdom to work for both the entire University and the individual campuses, with officers being a chairman and a Vice Chairman elected by the representatives from the 20 members, five from each campus.

James W. Stephens '47, a UMR graduate from Kansas City, has been serving as temporary chairman during the planning and study period which preceded formation of the alliance. Stephens is Vice President for Community Services of the Missouri Public Service Company, in Kansas City.

Officers elected at the organizational meeting were Cullen Coil, Chairman, an attorney from Jefferson City, and Patrick J. Nash, Vice Chairman, who is a commercial property manager for J. C. Nichols Co. in Kansas City. Coil is a graduate of the University of Missouri-Columbia and Nash is a graduate of the University of Missouri-Kansas City.

Terms of office for the Chairman and Vice Chairman are two years and the

officers cannot succeed themselves. Under rules of the alliance, the chairmanship must rotate to a different campus representative each two years so that each campus association will hold the top position on a regular basis.

While the alliance is officially organized and operating under a broad outline of goals and guidelines, specific functions now are in the process of being formulated. Basically, they will revolve around providing whatever measure of coordination that will be helpful to each individual campus association and the total University of Missouri.

Miners Complete Successful Football Season

The Miners finished their 1970 football season on Thanksgiving Day with a win over Lincoln University, now a MIAA conference member, by a score of 14 to 7.

This victory brought the season's record to 6 wins, 3 losses and 1 tie.

It was a rather erratic season. The first five games the Silver and Gold came out with decisive winning scores.

The Homecoming contest was their sixth and the squad was intent on a victory. It ended in neither a win or a loss but a 14-14 tie with the Springfield Bears. The next three games were defeats for the Miners, Central Missouri State 34, Miners 7; Cape Girardeau Indians 35, Miners 21; and the Kirksville Bulldogs 35, Miners 19. The triumph over Lincoln in the final game was very encouraging. Lincoln's near victory at Warrensburg, the final score was just one point difference, and defeat of Kirksville made the new conference team a real question mark. The Miners were ready and played one of their finest games paced by a record-setting performance by senior fullback-tailback Bobby Berry, son of Mr. and Mrs. Jerry Berry '49, of Rolla. Coach Dewey Allgood stated Bobby Berry was the Miners' most productive offensive player of the season. He was the leading scorer with ten TD's, second in rushing with 583 yards, and third best receiver with 15 catches good for 183 yards.

The second leading scorer and top pass receiver was wingback Bobby Somerville who caught 6 TD passes and gained 862 yards overall. His 72 catches set a new UMR record.

Top rusher on the team was Steve Kubiak with 617 yards in 109 tries. Les Clark made 286 yards in 81 carries.

Junior quarterback Pat Godwin passed for 1611 yards by completing 128 out of 271 attempts. Thirteen of these went for TD's and 12 were intercepted.

Mike Hearst was the leading kick returner with 185 yards in 10 attempts. Ross Bacon led in the punt return category with 129 yards and one TD in 13 tries. Freddie White intercepted five passes during the season. The Miner's total was 19 pass interceptions, one of them for a touchdown. Defensive tackle Darrell McCallister pulled that trick on Washington University in the season's first game.

Teamwise, the Miners made 207 first downs to 160 for their opponents, made 1857 yards rushing to 1344 for their opponents and 1934 yards passing to 1525 for the opponents.

UMR was penalized 82 times for 817 yards to 55 and 646 for their opponents. The Miners lost 14 of 19 fumbles to 9 of 14 for the opposition.

The final conference standing was: Kirksville and Warrensburg tied for first place with 5 wins and 1 loss each; Cape Girardeau was second with a 4-2 record; Lincoln was fourth with 3-2; UMR fifth with 2-3-1; Springfield sixth with 1-4-1; and Maryville last with 0-5.

Eight seniors completed their last college game. They were: Co-Captains Bobby Berry and Freddie White, Ed Hanstein, Steve Arant, Darrell McCallister, Mike Moore, Steve Walker and Dave Williams.

Prospects for the 1971 season are very good and the Miners are touted to have a contending squad.

The crowds witnessing the games this year were the largest and most enthusiastic ever.

1970 Football Season Record

UMR 20 Washington University	14	
UMR 21 Missouri Valley College	7	
UMR 28 Bradley University	7	
UMR 53 U. of Ill. - Chicago Circle	0	
UMR 54 N. W. Mo. State College	21	
UMR 14 S. W. Mo. State College	14	
UMR 7 Central Mo. State College	34	
UMR 21 S. E. Mo. State College	35	
UMR 19 N. E. Mo. State College	35	
UMR 14 Lincoln University	7	
Won 6 Lot 3 Tied 1		

Miners on All-Conference Team

The Miners placed seven men on the MIAA All-Conference Football Team.

UMR's seven picks on the first offensive and defensive teams were the most of any school in the conference.

The Miners named on the first offensive team were fullback Bob Berry, who tied in the voting with Southeast Missouri State's Ed Moss, flanker Bobby Somerville, tackle Steve Kutska and guard Bruce Williams.

Defensive back Freddie White, line-backer Ed Hanstein and tackle Darrell McCallister were named on the first defensive unit.

Miners picked on the second team were noseman Mike Moore, defensive

end Dave Williams, tailback Steve Kubiak and center Dennis Smith.

Those that received honorable mention were defensive back Hearst, defensive end Steve Arant and offensive guard Gary McAlpin.

ENGINEERS AND SCIENTISTS WANTED

For information concerning the positions listed below, please contact Mr. Larry Nuss, Director of Placement and Industry Relations, UMR, Rolla, Missouri, and give the File Number of the position.

ENGINEERS—M. E.; E. E.; I. E.; Ch. E. World's number one loud-speaker manufacturer. Midwest. Refer File No. 624.

M. E.; I. E. — Shoe manufacturer. Willing to work hard. Midwest. Refer File No. 633.

ENGINEER — Chemical or hydro-metallurgy. Acceptable M. E.; Met. E.; E. E. Western regional manager, process industries division. Proven sales experience. Refer File No. 626.

MINING — Sales heavy mining equipment throughout South America. Speak Spanish or Portugese. Refer File No. 627.

ENGINEERS — Sales. Mining machinery. Plastics resins. Power machinery. Also mineral dressing, chemist, designer. Industrial, foundry manager. Refer File No. 628.

ENGINEERS — Most diciplines, many areas. Also programmers. Refer File No. 629.

Ch. E. — Experienced in areas of food processing and possessing strong capabilities for management responsibilities. Excellent salary commensurate with background and experience. Midwest. Refer File No. 630.

ENGINEER — Plant for hospital. Direct power and heating plants and supervise general maintenance of the institution. Refer File No. 631.

ENGINEERS — Two. One — Facilities development field. Representing the facilities in construction areas directed. Two — Facilities development assistant. Educational institution. Midwest. Refer File No. 632.

Professor Jack Bobbitt

Professor Jack Bobbitt, age 45, died December 2, 1970. Surviving are his widow, Peggy, and five children. Ann, is a freshman at the U. of Mo. - Columbia, and Patricia, John, Susan and Andrew, all are of the home.

Professor Bobbitt has been a member of the faculty at UMR since February 1963, and on the staff of the English Department. Before coming to UMR, he was an assistant and associate professor of English at the University of Montana for four years.

Mr. Bobbitt was born in Parkersburg, W. Va., received a B. A. degree in English at Wooster College, in Ohio, and his M. A. degree, in 1951, from U. of Mo. - Columbia. He has completed his residency, at UMC, for his doctorate degree.

Professor Bobbitt was a member of the First Presbyterian Church, founder of the Rolla Handball Association, a member of the Modern Language Association, a member of the Linguistics Section of the Academy of Science and was a life member of the UMC Creative Writing Honorary. During his years at UMR, he was five times elected to receive an Outstanding Teachers Award. He had recently been elected to the 1970 edition of Who's Who in the Midwest. In addition, he had poetry published in the Saturday Review, the Midwest Quarterly, the Poetry Bag, the Wooster Quarterly, Contempora and others. During World War II, he served in the Army Air Corps.

Burial was in the National Cemetery in Springfield, Mo.

Professor Floyd H. Frame

Floyd H. Frame, age 82, died December 4, 1970 at Camdenton, Missouri.

A retired UMR professor, Mr. Frame also worked for the Bureau of Mines. He was the first chairman of the electrical engineering department at UMR. He received his Bachelor's degree from Clark University, Worcester, Mass., and an electrical engineering degree from Worcester Polytechnic Institute in 1924.

He was a professor at UMR from 1914 to 1917 when he joined the Army.

Discharged as a captain in June 1919, he returned to UMR and remained a professor until 1948, when he retired as chairman of the electrical engineering department in 1948.

In September 1949, he was appointed as an electrical engineer with the Bureau of Mines, a position he held until retirement in 1963.

A consulting engineer for the City of Rolla, he was also a member of the Board of Public Works. He was a member of Pi Kappa Phi, Sigma Psi and Kappa Sigma fraternities and was a member of the Methodist Church.

Surviving are two sons, John Warren '37, of Bethlehem, Pa., and John Russell '46, of Houston, Texas; a brother Wayne Shannon '23, of Eldon, Mo., and two granddaughters.

MARRIAGES

Holland-Lasswell

Theodore W. Holland '69 and Jean Marie Lasswell were married October 24, 1970, at the Meadowbrook United Methodist Church, Gladstone, Missouri. The bride is a 1961 graduate of Northeast Missouri State College at Kirksville and a 1965 graduate of the Blessing Hospital School of Medical Technology, Quincy, Illinois. Theodore is employed as a geologist with the Corps of Engineers at Kansas City, Mo. They are living at 2721 Kendallwood Parkway, Apt. 1, Gladstone.

Kurtzhals-Beaver

James D. Kurtzhals '61 and Shirley Ann Beaver, of Michigan City, Indiana, were married June 17, 1970. The newly-weds have their new home at Route 4, North Manchester, Indiana. James is plant engineer, The Celotex Corporation, Largo, Indiana.

Brave-Wiegers

Philip Brave '67 and Miss Elizabeth Wiegers were married on August 1, 1970, and are residing at 1204 Quantock, Apt. 7, St. Louis, Mo. Philip is a mechanical design engineer for the Monsanto Company.

Lytle-Wilson

Glenn Lytle '66 and Miss Carol Wilson, Dayton, Ohio, were married August 1, 1970. They are now living on Eastland Drive, Bluffton, Ohio. Glenn is a project engineer with the Triplett Corporation and Carol is teaching a second grade in nearby Pandora, Ohio.

Rathbun-Ziller

Donald G. Rathbun '67 and Miss Roberta M. Ziller, of Milwaukee, Wisc., were married September 19, 1970. Donald is a senior project engineer, Delco Electronics. Their residence address is 6260 S. Lake Drive No. 618, Cudahy, Wisc.

Matthews-Rhodes

Jerry L. Matthews '70 and Miss Emily Rhodes, of Knob Noster, Missouri, were married August 8, 1970. Jerry is employed as a geologist with Kerr-McGee Corporation, Grants, New Mexico. Their new home is at 200 Lincoln St., Apt. 20, Grants, N. M.

Hannauer-Tognoli

Joseph O. Hannauer '55 and Irene Tognoli, of San Francisco, California, were married May 2, 1970, and they are residing in San Mateo, California, 839 North Humbolt. Joseph is technology and utilization officer with the Small Business Administration.

Struebing-Wirth

Rolland C. Struebing '64 and Miss Betty Ann Wirth, February 2, 1969. They are renting an apartment in Mt. Arlington, N. J. They have two cats, Ginger and Cinamon and a dog, Pepper. Rolland is a member of the Dover JC's and Morris County Engineer Club. He is an electronic engineer GS-12, at Picatinny Arsenal, Dover.

Leigh-Kleinschmidt

Terrence Allen Leigh '70 and Cheryl Leah Kleinschmidt were married in Ferguson, Missouri, October 10, 1970. Terry is a field engineer-sales, for Leeds and Northrup in their Chicago District Office. The Leigh's address is 209 Bon Aire Arms, 2453 North 1st Ave., River Grove, Illinois.

Olney-Wedemeyer

Captain Gerald E. Olney '67 and Miss Dorothea Frances Wedemeyer, were married October 25, 1970 in the Post Chapel, Fort Monmouth, New Jersey. The bridegroom is assigned as a ROTC instructor at Carnegie-Mellon University, Pittsburgh, Pa.

BIRTHS

Mr. and Mrs. Kenneth Kashmarek '67, 1716 11th St., Coralville, Ia., announce the adoption of Scott Anthony on May 29, 1970. And they neglected to announce the adoption of Kelly Ann, April 30, 1968. Kenneth is systems programmer, University of Iowa, Iowa City. Their residence address is 1713 11th St., Coralville, Ia.

Mr. and Mrs. Michael H. Vallez '56, announce the birth of their seventh child, Jerome C., in Ciudad, Venezuela, on May 14, 1970. The other children are: Arthur, 10; Helene, 9; Jackie, 8; Michael, 6; Jimmy, 5; and Joey, 1½ years. Young Mike is the only one of the group born in the United States. Mike, Sr., is superintendent of mines production, Orinoco Mining Company, Puerto Ordaz, Venezuela.

Mr. and Mrs. Bill Sakovich '67, are proud parents of Linda, born November 6, 1970. Bill is with McDonnell-Douglas Corporation, St. Louis, Mo. as a design Engineer.

Mr. and Mrs. Kenneth Poush '63, announce the arrival of Benjamin Wells, on November 6, 1970. Ken is a process engineer with Kerr-McGee Technical Center, Oklahoma City, Okla., address 9820 Ashley Place.

Mr. and Mrs. Michael J. Hickam '68, 131 Leo Leis Drive, Marlboro, Mass., now have three children. Jennifer Leigh arrived on April 1, 1970. Her sister is Debbie, 4½ years and Kevin 1½. Mike is a field representative for Union Carbide Corporation. The Hickam's house is open to all alumni who might be in the Marlboro area.

Mr. and Mrs. Donald Feaster '59, have three daughters. Kathy Lea was born September 23, 1970. The Feasters have a new home on a lake near Lutz, Florida. Don is engineer of operations, Southwest Florida Water Management District. Their address is Rte. 1, Box 229-B, Lutz.

Lt. and Mrs. Thomas J. Fritzingler '67, welcomed Dawn Michelle, August 4, 1970. The father is a pilot in the USAF and now assigned to the 43rd Air Refueling Squadron, Fairchild AFB, Washington. Their address is 8706 Sycamore.

Mr. and Mrs. Bernard D. Fricke '67, announce the birth of their first child, Brian Albert, born August 29, 1970. Bernard is a process engineer at the Bendix Corporation, Kansas City, Missouri, and they reside at 1312 Jones Ave., Apt. 22, Grandview, Mo.

Mr. and Mrs. E. C. "Gene" Fadler '62, advises Amy Jean, joined Diane and Anne, her sisters, on August 29, 1970. Barb and Gene are mighty proud of their three daughters. Gene is senior development engineer with Ford Motor Company, Dearborn, Michigan. Gene is also president of the Detroit Section of the Alumni Association, and is planning on an alumni gathering in Detroit January 12, 1971, during the SAE Congress and Exposition. Their address is 24920 Chernick, Taylor, Michigan.

Mr. and Mrs. Warren Dean Graham '69, announce the arrival of their first child, Jennifer Marie on October 4, 1970. Dean is an electrical engineer with Associated Electric Cooperative in Springfield, Missouri. Their address is 2908 South Stewart Street.

Mr. and Mrs. Gary L. Voorhis '64, now have their second child, Christi Lei, born April 20, 1970. Gary is senior process engineer, Delco Radio Division, General Motors Corp., Kokomo, Indiana. Their address is R. R. 5, Kokomo.

Mr. and Mrs. Robert F. Kehrman '67, are proud of their second son, Stephen Franklin, born August 21, 1970, in Tulsa, Oklahoma. Robert has accepted a position as geophysicist at Westinghouse Georesearch Laboratory at Boulder, Colorado. They reside at 8 James Circle, Longmont, Colorado.

DEATHS

Herman Kolwey '27

Herman Kolwey '27. The alumni Office was notified of the death of this alumnus. Date of death was not given.

He was employed by Bethlehem Mines Corp., and resided in Fairmont, West Virginia.

Benedict G. Giltner '48

Benedict G. Giltner '48, died boarding a plane in Pittsburgh, Pennsylvania, June 3, 1970. His address at the time of his death was 16 West 530 Grove, Bensenville, Illinois.

John I. Moore, Jr. '32

John I. Moore, Jr. '32, died September 9, 1970. He was manager of economics and a member of the management committee of Skelly Oil Co., Tulsa, Oklahoma. Earlier he has been assistant professor of chemical engineering at the University of Kansas. He was a Commander in the U. S. Navy during World War II. He is survived by his widow, Anne; two sons, Christopher, a junior at Colorado School of Mines, and Charles, a freshman at Southern Methodist University; a brother David, of Columbus, Ohio, and a sister Lyn, in St. Louis, Mo.

David A. Burberry '69

David A. Burberry '69, was in the U. S. Navy and hitch hiking on the New Jersey Turnpike. He was struck and killed by a passing automobile. This accident occurred on October 30, 1970. He is survived by his parents Mr. and Mrs. R. S. Burberry, 213 Brinkley Avenue, Benton, Illinois.

Louis L. Coover '12

Louis L. Coover '12, died February 25, 1970. He lived in Springfield, Missouri.

Hammond Ladd '09

Hammond Ladd '09. The alumni office was advised of his death. The date was not given.

Felix E. Hallman '64

Felix E. Hallman '64, former plant engineer of Georgia-Pacific Inc., Bestwall Division, Acme, Texas. Death was due to cancer. The Hallmans moved to Texas in 1967. He was a veteran of World War II. Survivors include his widow, Mary Ann, residing at 403 W. 13th St., Quanah, Texas; five sons, a daughter, two brothers and two sisters.

Thomas H. Welliver '50

Thomas H. Welliver '50 died July 10, 1969.

Herbert C. Wolf '38

Herbert C. Wolf '38, died May 23, 1970. He was owner of Herbert C. Wolf, consulting engineers. Surviving is his widow who resides at 11324 Larimore Road, St. Louis, Missouri, and five sons.

John E. Kitchen '27

John E. Kitchen '27, president of Kitchen Electrical Supply Company, Reno, Nevada, died October 1, 1970 after a seven weeks illness. He had lived in Reno since 1946 and took an active part in the community's business life and civic and fraternal affairs. He served on the Board of Directors of the Nevada State Fair and Nevada Board of Trade. He was a member of the Prospectors, Reno Rotary Club, B.P.O. Elks, Masonic bodies and the Lambda Chi Alpha fraternity. From 1927 to 1946 he was a civil engineer with the U. S. Army Engineers. Surviving are his widow, the former Maude Galbreath; two sisters and two brothers. His brother Charles was a Rolla alumnus.

Alumni Personals

1 9 1 4

John Nixon Webster, retired, and superintendent of lawn and garden, has surprising infirmities as he always planned to grow old gracefully. He still gets around with a cane — pretty good? His address still is 2523 W. King's Highway, San Antonio, Texas.

1 9 3 3

Ellen W. Doll, guidance counselor, Woodrow Wilson Junior High School, Charleston, West Virginia, is completing a "Masters Plus 15" (hours) program at Marshall University, Huntington, W. Va. The current class has her engaged in a group counseling project at the Charleston Job Corps Center. She describes it as very interesting and rewarding.

1936

Edward A. Roy retired from the U. S. Steel Corporation, in August 1970, on account of illness. He attended a special E. P. D. A. program at Stout State University, Menomonie, Wisconsin, for retirees from industry this summer, and received certification to teach at Junior College and Technical Institute level. He is now teaching part time at Lorain County Community College, Elyria, Ohio. His address is 2023 E. Erie Avenue.

1937

Marshall W. Taylor II has moved to Houston, Texas where his employer The Department of Transportation established its first field facility of the Office of Pipeline Safety. He has been in the Department's office in Washington, D. C., for the past 18 months. He spent five years with the Federal Power Commission prior to joining the Department of Transportation. He spent nearly 20 years in petroleum engineering drilling, production and pipeline assignments with firms in Texas and Canada.

1938

Eugene F. Hill moved to California and is working in the Vacuum Division, Varian Associates, Inc., Palo Alto. The Hills have found California a great place to live. Their home is at 1311 Talbryn, Belmont, California.

1941

Andreas A. Andreae, vice president and general manager, Portsmouth Motor Mart, Inc., advises that his daughter Kathleen is attending nursing school. His son, Robert, graduated from UMR in 1969, and is a mechanical engineer at the Portsmouth Naval Shipyard. Andreas' address is P. O. Box 423, Portsmouth, N. H.

1942

John C. Allen, President of Engineering Management Consultants, Pte, Ltd, Stamford House, 39 Stamford Road, Singapore, has founded the firm "Fish Farms Asia" to provide southeast Asian fish farmers with latest technological advances in this field.

1946

Rev. Robert L. Mann is minister of The United Methodist Church at Alton, Missouri. He has two churches on a circuit. He has been in the ministry of the United Methodist Church for 22 years. Before entering the ministry, Robert was with the Bridge Bureau (1946-47) of the Missouri State Highway Department, Jefferson City.

1947

E. Gordon Reader, formerly president of Ferguson Machine, St. Louis, Mo., has been named president of Win-Ferguson International. UMC Industries, Inc. created this company to manage the growing world-wide sale and manufacture of industrial automated equipment produced by the company. The new company will have four divisions: Winsmith, Springville, N. Y.; Ferguson Machine, St. Louis; Ferguson Machine Co. of Belgium; and Ferguson Machine Co., G. m. b. H. in Munich.

Philip D. Johnson is assistant county engineer, Stevens County Road Department, Colville, Washington. He is also a partner in a farming operation (17 years) and he has been a licensed civil engineer and land surveyor for a number of years. In his note he states, "I enjoy the alumni publication, particularly news of any of the guys I know." His residence address is Rice, Washington.

Gale Fulghum is vice president and general manager, Reed-Joseph Co., a subsidiary of International Systems & Controls of Houston. His temporary business address is Highway 1, North, Greenville, Mississippi.

Willis "Bill" H. Harville, is pastor of the Presbyterian Church U. S., Magee, Mississippi. His daughter, Susan Elaine, is attending Belhaven College, Jackson, Mississippi.

1948

A. Eugene Copeland has been named vice president - operations of the Pocahontas-Southern Division, Consolidation Coal Company. He has been manager of mines. Copeland joined Clinchfield Coal Company, Dante, Va., as preparation engineer. He was with Buckeye Coal Company in Pennsylvania from

1951 to 1955 as preparation plant superintendent. In 1955 he went with Pocahontas Fuel as assistant chief engineer. Later he became assistant to the president, safety director, division superintendent and then manager of mines. His address is 2300 Walton Avenue, Bluefield, W. Va.

1949

John J. Mulligan received the citation for distinguished service in recognition of outstanding contributions to Arctic and Antarctic mineral exploration and development with the Bureau of Mines, Department of the Interior. He began his career in 1949 at Juneau, Alaska, as a Junior Mining Engineer. Progressing through assignments of increasing responsibility, he presently serves as Coordinator, Alaskan Operations. He is a recognized authority on mine examination and exploration. Despite extremely adverse topographical situations in a most rigorous climate, he has made notable achievements in advancing Alaskan mining research. He surveyed extensively the Alaskan Seward Peninsula cassiterite deposits resulting in a strategically important inventory on the Nation's largest tin ore reserve. He also successfully completed a field reconnaissance of Antarctic coal deposits which constituted a significant contribution to vitally needed Antarctic Continent knowledge. It was in recognition of exceptional leadership and outstanding contributions to Bureau of Mines mineral programs, the Department of the Interior granted to Mr. Mulligan its highest honor, the Distinguished Service Award.

Donald H. Timmer is a partner in Richland Engineering, Mansfield, Ohio. Their daughter Linda, received her B. S. in civil engineering from U. of Mo.-Columbia, this past summer and is now in the Structural Department of Richland Engineering. Their business address is 390 Marion Avenue.

1950

John E. Muehring joined Golden West Mobile Homes, Inc., in November 1969 as vice president. He has been in the mobile home industry for the past 15 years. His firm is in Santa Ana, California and he lives at 7082 Valentine Drive, Huntington Beach.

Laurence W. "Larry" Cantwell recently joined the Railway Products Division of Portec, Inc., as Manager of Engineering. The Railway Products Division is one of ten Portec Divisions and a leading manufacturer and seller of track materials, including rail anchors, rail and flange lubricators. Larry will be headquartered at 300 Windson Drive, Oak Brook, Illinois and will continue to reside at 703 South Monroe, Hinsdale, Illinois, with his wife, Josephine, and daughter Kris. A married son, Ron, lives in Houston, Texas. Larry was associated with the Santa Fe Railway for 21 years, most recently as Division Engineer at Chicago, Illinois.

1951

H. E. Kritzer is an equipment specialist with the Department of the Army Civilian. He is with the Korean Military Advisory Group, communications-electronics. His family accompanied him on his two year tour of duty. His mailing address is Sroka KMAG-CE OFF, APO San Francisco 96218.

Dr. William E. Horst received the Best Presentation Award during the St. Louis AIME meeting along with Dr. E. J. Freeh, of Ohio State U., for the presentation of their paper "Mathematical Modeling Applied to the Analysis and Control of Grinding Circuits," given at the Annual AIME meeting in Denver, Colorado, in February 1970. Dr. Horst is a consulting metallurgical engineer with Frontier Engineers, 7045 N. Montebella Road, Tuscon, Arizona.

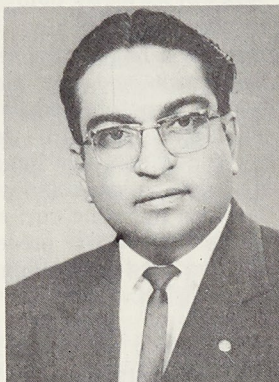
Edwin J. Soxman, Sigmatron, Inc., Goleta, California, has the lead article in the September 1970 issue, "Electro-Optical Systems Design" magazine. The title is, "Designing with LEF's — A New Display Technology."

William M. Baldwin was a lecturer at the "International Symposium on Low Cost Housing Problems Related to Urban Renewal and Development," held on the campus October 8-9. Bill's part was "Mobile Home Parks: Design, Construction and Costs." He has been with Mobile Home Industries, Inc., Tallahassee, Florida. He just recently organized Smith-Baldwin consulting engineers, 1309 Thomasville Road, Tallahassee.

December 1970

Ravindra C. Patel has been nominated Governor of Rotary District 306, Rotary International, and he expects to visit the Rolla campus when he returns to the United States in April 1971. He joined Rotary upon his return to India in 1953. He wanted to know the dates of the St. Pat's celebration in order to plan to be in Rolla at that time. He is being accompanied by his wife, Damyanti. His address is M/s/ G. R. Sons (Anand) & Co., Station Road, ANAND, Gujarat, India.

Ravindra C. Patel



1953

Charles A. Anderson is mill superintendent, Viburnum Division, St. Joe Minerals Corporation, Viburnum, Missouri. The City of Viburnum has honored him by electing him Mayor of the City of Viburnum. The Andersons, with their six children, reside at 15 Crescent Drive.

G. A. "Jerry" LaBouff has joined Tauber Oil Company as vice president in the refined products marketing department. Jerry was formerly with American Oil Company. His new headquarters address is 1610 Melrose Building, Houston, Texas.

1955

Dr. John B. Miles, professor of mechanical and aerospace engineering, University of Missouri-Columbia, has accepted a National Research Council senior postdoctoral research associateship at the National Aeronautics and Space Administration Ames Research Center, Mountain View, California. He

will be on leave of absence from the university beginning February 1, 1971. Dr. Miles will be working with the Environmental Control Research Branch at NASA-Ames, investigating ways to provide better control of temperature and humidity inside the space suits worn by U.S. astronauts. He will lecture at Stanford University as a visiting professor of Mechanical Engineering and Aerospace while in California.

1956

William A. Garland is manager engineering services, Borg & Beck, Division of Borg Warner Corporation. This entails managing all laboratory, garage, record section, and engineer procurement for the Borg & Beck Division in Detroit. He also supervises resident engineers in the Detroit and Chicago plants. His address is 23410 Meadlawn, Dearborn Heights, Michigan.

1957

Marshall L. Severson who has been chief metallurgist, Kelsey-Hayes Co., Romulus, Michigan, is now Professor of Metallurgy, South Australian Institute of Technology, Adelaide 5000, Australia.

Paul D. Gerlach is assistant vice president-marketing, Meyer Labs, Inc., Maryland Heights, Mo. Meyer Labs, Inc. is six years old with approximately \$1 million in military sales in the last fiscal year. The company is expanding into the commercial industrial field in the area of solid state traffic controllers. His St. Louis address is 11098 Worcester.

Lloyd E. A. Reuss, was the man given a "chance of a lifetime." Chevrolet's Vega 2300 introduced more than sub-compacts to General Motors. For, it signalled a switch to the project manager concept of engineering. In this scheme, one, the project manager, surrounded himself with an autonomous team of engineers who worked exclusively on the then XP-887. This is quite contrary to past practice in which engineering specialists work across car model lines. But the benefits of esprit de corps and reduced communications are substantial. Reuss was the man given this chance, Chevrolet's chief vehicle engineer for Vega. He joined

General Motors in 1960 as a test engineer. He transferred to the engineering center in 1965 and was promoted to staff engineer-administration in 1968.

Richard Carpenter has joined the Knolls Power Laboratory of General Electric Company as manufacturing engineer of welding and brazing in the Nuclear Core Operation component. He was previously employed by the Portsmouth Naval Shipyard, Portsmouth, New Hampshire. Richard and his wife, Claire, have two children and reside at 3 Fruitwood Drive, Burnt Hills, N. Y.

Henry A. Root has been promoted to the position of chief marketing engineer with Olin Corporation, New Haven, Connecticut. He has been technical advisor. His residence address is 1733 Orchard Hill Road, Cheshire, Conn.



Robert E. Quisenberry

Robert E. Quisenberry, a Research and Technical Department employee, is a patentee of recently issued patent assigned to Texaco, Inc., covering improvements in Isomerization Process Employing Hydrotreating and Molecular Sieve Purification. Quisenberry joined Texaco at Port Arthur, Texas, in 1957. He has held a succession of assignments, primarily in fuels research and is currently working as a Project Chemical Engineer in this field. He is holder of another patent in the field of hydrocarbon processing. He is a veteran, having served with the U. S. Army in Korea during 1951 and 1952. The Quisenberrys reside at 3828 Purdue, Port Arthur.

1958

Sadegh M. Vakil, an electrical engineering faculty member from Aryamehr

University of Technology, represented Iran in the first Western Space Congress held in Santa Maria, California. Vakil presented a paper on the "Lightning Protection for Spacecraft." He developed an interest on the problem of lighting protection for spacecraft after his successful prediction of the lightning which struck Apollo 12 during its flight to the moon. He predicted the occurrence on the basis of a theory in electricity, 10 minutes before the Apollo launching, when overcast skies were reported at Cape Kennedy. His prediction was confirmed by astronaut Conrad's report of all alarm lights turning on, and by observers watching the moon flight, who saw a huge bolt flash. In his paper Vakil explained how the rocket's conductive structure and its trail of ionized exhaust fire disturb the charges and set conditions for lightning-triggering. He proposes ways and means to restrict the huge lightning current to the spacecraft's skin and preventing it from entering sensitive equipments and astronauts' cabin.

E. Robert Schmidt, staff consultant NUS Corporation, Rockville, Maryland, has been assigned as start-up consultant to the Tokyo Electric Power Co., on the Fukushima Nuclear Power Station at 460 MWE, G. E. BWR. He will be in Japan until February 1971.

1959

Richard Wiekier, 713 North Spring Avenue, Lagrange Park, Illinois, is with Productigear Company, Chicago. The Wiekiers have 3 children, David, 7; Craig, 4 and Sara Anne, 1 year.

1960

Donald R. Brinkley is retail marketing manager of Vistron Corporation. He joined Vistron-Sohio, in Lima, Ohio, in 1960 as engineer in the acrylonitrile plant. Later he was promoted and transferred to Cleveland, Ohio, where he was industrial sales manager, and later chemical sales manager. He and his family live in Lima, Ohio.

1961

Lieutenant Colonel Richard B. Spieloch, Deputy Professor of Military Science at UMR since May 1967 retired from the U. S. Army October 31, 1970 with twenty years of service. The

retirement ceremony was held at Ft. Leonard Wood where he received the Meritorious Service Medal for his outstanding performance of duty at UMR. He will be employed by the AZCO Engineers and Mechanical Contractors, Inc., P. O. Box 228, Appleton, Wisconsin.

Dr. Robert R. Zerwekh is an assistant professor in the Department of Mechanical Engineering, University of Kansas. He just completed his Ph. D. in metallurgy at Iowa State University.

Michael C. Kearney is with Cambridge Filter Corporation as southern regional sales manager. He formerly was with ITT-Nesbitt as technical service manager. The Kearneys have three children, Kathy, 6; Michael, Jr., 4 and Patrick, 3 years. Their address is 3453 Santa Fe Trail, Doraville, Georgia.

1962

Major Steven A. Gardner, formerly with the U. S. Army Mobility Equipment Command, St. Louis, Mo., has been assigned to the Command's Research and Development Center, Ft. Belvoir, Va., as Director of the Countermeasures Programs Office. In his assignment with the Command, Major



Major Steven A. Gardner

Gardner is Chief of the Special Projects Division in the Special Items Management Office. He served in France, 1962-65; in Vietnam, 1966-67; as an instructor in the Engineer School, Ft. Belvoir, 1967-68 and a second tour in Vietnam, 1968-69. Included in his awards and decorations are the Bronze Star with Oak Leaf Cluster for his service in Vietnam and the Army Commendation Medal for his service at the

Engineer School. He is a member of the Society of American Military Engineers, and the National and Missouri Society of Professional Engineers. During his assignment at the Center, he is residing at 4949 Manatoba, Alexandria.

Blair A. Rowley received his Ph. D. from U. of Mo. - Columbia in June. He is assistant to the Director of Engineering at the Space Sciences Research Center and has a joint appointment as assistant professor in physical medicine and rehabilitation. The Rowley's son is now six years old and the twin daughters, Barbara and Juanita are three. Their residence is a 101 Edgewood, Columbia.

Major Lee A. Waltrip has resigned from the Army after seven years service and has accepted a position as chief engineer with Gulf Coast Paving and Grading Corporation, Pensacola, Florida.

1963

Donald L. Packwood is a graduate student, research assistant at the University of Missouri - Columbia, and hopes to complete his Ph. D. in physics at an early date. His address is 402 Rockhill Road, Columbia.

Richard Siegele recently joined Don R. Hinterliter, Inc., Heat Treating Division, as sales manager and plant metallurgist, Richard, his wife Mary Ann and children, Terasa and Dale moved to Tulsa, Oklahoma, and their new home is located at 6026 S. 73 E. Avenue.



1st Lt.
Roger K.
Huston

1st Lt. Roger K. Huston flew a recent milestone mission in the redeployment

of U. S. Forces in Vietnam. He was navigator on the Oklahoma Air National Guard C-124 Globemaster crew from Tulsa that helped airlift supplies and equipment from Tuy Hoa Air Base to mark the first phaseout of a major U. S. Air Force installation in the combat zone. The equipment was delivered to the Ohio ANG units at Springfield and Toledo. Lieutenant Huston is assigned to the Oklahoma ANG's 138th Military Airlift Group at Tulsa International Airport and is an engineer with Cameron Corporation in Tulsa.

Robert G. Osborne has been appointed to the position of Quality Engineering Specialist for Cummins Engine Company, Inc., Columbus, Indiana. Osborne comes to Cummins from General Electric, where he was a quality control engineer. Bob and his wife, Mary Anne, have three children and reside at 3430 25th Street, Columbus.

Richard E. Lira has completed his initial training at Delta Air Lines' training school at the Atlanta Airport, Atlanta, Georgia, and is now assigned to the airline's Dallas pilot base as a second officer. Prior to joining Delta, he has served seven years in the U. S. Navy. His wife is the former Linda Rae Hendricks of Corpus Christi, Texas. They have two children.



Richard
E.
Lira

Carl J. Roberts has been promoted to Head of The Fleet Operation Branch, U. S. Navy Fleet Missile Systems Analysis and Evaluation Group, Corona, California. The branch is responsible for the construction operation, and maintenance of the Navy's air-to-air telemetry stations both in the United

States and overseas. His residence address is 10943 Endicott, Riverside, California.

1964

Dr. John P. Glaese received his Ph. D. in Physics, from UMR, in May. He completed Engineer Officers Basic Course at Ft. Belvoir, Va., and in June was assigned to George C. Marshall Space Flight Center, Huntsville, Alabama as a military detailer working in the Aero-Astroynamics Laboratory. Mrs. Glaese, nee Carolyn Alleman, is a graduate of the School of Nursing, U. of Mo. - Columbia. They have one son, Roger Marshall, born October 2, 1969. Their address is 207F Dyer Circle, Redstone Arsenal, Alabama.

Donald G. Doiron has been named manager of fuel-trac operations for the Nuclear Assurance Corporation in Atlanta, Georgia. Fuel-trac is the company's information and analysis system for the nuclear power industry, providing up-to-date technical information through a national data bank created and maintained by NAC. He previously was an engineer with Westinghouse Electric Corporation's advanced Reactor Division and also The Detroit Edison Company's Enrico Fermi nuclear plant. He is married and has one son and lives at 109 King David Drive, Lilburn, Georgia.

Alan E. Stricker received a M. S. degree in Applied Statistics from Villanova University and is currently enrolled in the MBA Program at Drexel Institute of Technology in Philadelphia, Pa. He is assistant quality control manager, General Refractories Co. His address is 422 Ellerslie Ave., Ambler, Pa.

Daniel S. Eppelsheimer II, received his Master of Engineering Science degree from the University of West Ontario and is now working for his Ph. D. degree at the University of Heidelberg in West Germany. His address is Mineralogisch-Petrographisches Inst., Der Universitat Heidelberg, 69 Heidelberg 1, West Germany. His wife, Ingrid and daughter, Diricka accompanied him to Germany.

Arlen R. Schade, who holds a Doctorate in Nuclear Engineering, was promoted from first lieutenant to captain

in a ceremony at the U. S. Army Engineer Reactors Group at Ft. Belvoir, Va. The Captain entered active duty in May 1969 and was assigned to the USAERG, where he is Safety Officer and Special Assistant for Health and Safety. Nuclear Power Division, Office of the Chief of Engineers.



*Captain
Arlen R.
Schade*

Alfred J. Buescher, president of the St. Louis Section of the Alumni Association has moved his office to Union, Missouri, where his telephone number is 314 583-8383. Al is in partnership with his brother Romuald L. Buescher '53, in the firm of Buescher & Buescher, Consultants, Engineers and Surveyors.



*2nd Lt.
John F.
Sharp*

U. S. Marine Corps 2nd Lt. John F. Sharp has been awarded his silver pilot wings after graduation at Vance AFB, Oklahoma. He was assigned to the Cherry Point Marine Corps Air Station, N. C.

1 9 6 5

Lt. Chlorus D. Cooper and wife have been in Wiesbaden, Germany for the

past two years serving with the Air Force. They expect to remain until December 1972. Their address is CMR 7697, Hq Eur Comm Area (DM), Apo New York 09633.

1 9 6 6

Lt. James D. Steele, in July 1970, completed a 22-month tour of duty with the 6100th Civil Engineering Sq., Tachikawa Air Base, Japan. He completed a 9-week Applied Engineering Course at USAF's Civil Engineering School, Wright-Patterson AFB, Ohio. Presently he is on leave, enroute to a one-year tour with the 366th Civil Engineering Sq., Da Nang, South Vietnam.

Forrest M. Gasik, 339 Nahant Road, Namant, Mass., is a project specialist, instrument department, General Electric Company, Lynn, Mass.

1 9 6 7

Dr. Mohamed Z. Dajani, 5810 Fondren Road, No. 59, Houston, Texas, received his Ph. D. degree in electrical engineering from Southern Methodist University in July 1970. The Dajanis have a daughter, Zemar, who is 1½ years old. The father is a research analyst with Western Geophysical Co. of America.

David A. Herold completed his Army active service on September 10, 1970, and was discharged as an Engineer Captain - Aviator. He is now settled at a new address, 1228 Capri Drive, Crestwood, Mo., and a new job as manufacturer's representative with Lauber & Associates, Kirkwood.

Thomas M. McMillen has been promoted to Army first lieutenant while serving with the U. S. Army Engineer Command, Europe, near Heidelberg, Germany. He is assigned to Resident Engineer Office of the command.

2nd Lt. Samuel P. Miller has been awarded U.S. Air Force silver pilot wings upon graduation at Vance AFB, Oklahoma and assigned to Barksdale AFB, La., for duty. He will be in the 913th Aerial Refueling Squadron, a unit of the Strategic Air Command, America's nuclear deterrent force of long range bombers and intercontinental ballistic missiles.



*2nd Lt.
Samuel P.
Miller*

1 9 6 8

John A. Munns has been promoted from Ensign to Lt. (j.g.). In December he will have the collateral duty of docking officer, responsible for dry-docking surface ships and nuclear submarines in 5 drydocks and 3 floating docks at Charleston Naval Shipyard. His address is 26 Oakdale Place, Charleston, South Carolina.

John Berger recently accepted a position as project engineer at the Maxon Premix Burner Company's research and development facility in Muncie, Indiana. His address is Alma Court, R. R. 2, Box 148DD, Yorktown, Ind.

Bill M. Murray, Lt. (j.g.) will be deploying to COMCBPAC DET RUN for 8 months. He is officer in charge of Sea Bee Team 0319 and will be at XUAN LOC, about 30 miles from Siagon. He will be most happy to hear from his friends. His address is SBT 0319 COMCBPAC DET RUN, APO San Francisco 96309.

1 9 6 9

Robert Bruckner is a combat engineer in the U. S. Army at Ft. Knox, Kentucky, 522nd Eng. Company. His mailing address is 202 Chalet Village, Shively, Ky.

James R. Bruzewski has just completed primary jet training at Moody AFB, Georgia.

Airman Gary C. Bremer has completed basic training at Lackland AFB, Texas, and was assigned to Chanute AFB, Illinois, for training in weatherv services.

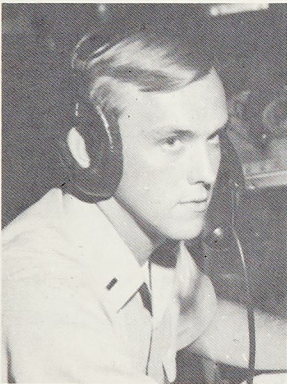


*Airman
Gary C.
Bremer*



2nd Lt. David R. George has graduated at Tyndall AFB, Florida, from the U. S. A. F. weapons controller course. He was trained to direct operation and maintenance of ground search and height finding radars, and is being assigned to Jefferson Barracks, Mo., for duty with the Tactical Air Command. His St. Louis, Mo. address is 10873 Verhaven.

*2nd Lt.
David R.
George*



William A. Miller, 7510 Morganford, Apt. 1C, St. Louis, Mo. who is with the U. S. Army Corps of Engineers, is departing for duty in Vietnam.

John A. Ebeling was recently promoted to chief electrical engineer, with the plant engineers, Ford Motor Company, Dearborn Specialty Foundry. He also wishes to announce his engagement to Miss Jody DiPaolo, of Allen Park, Michigan. Wedding plans are for late spring 1971. His address is 6940 Inkster Road, Apt. 214H, Dearborn Heights, Michigan.

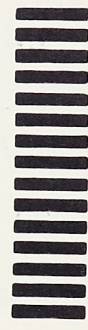
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