



Missouri S&T Magazine, December 1969

Miner Alumni Association

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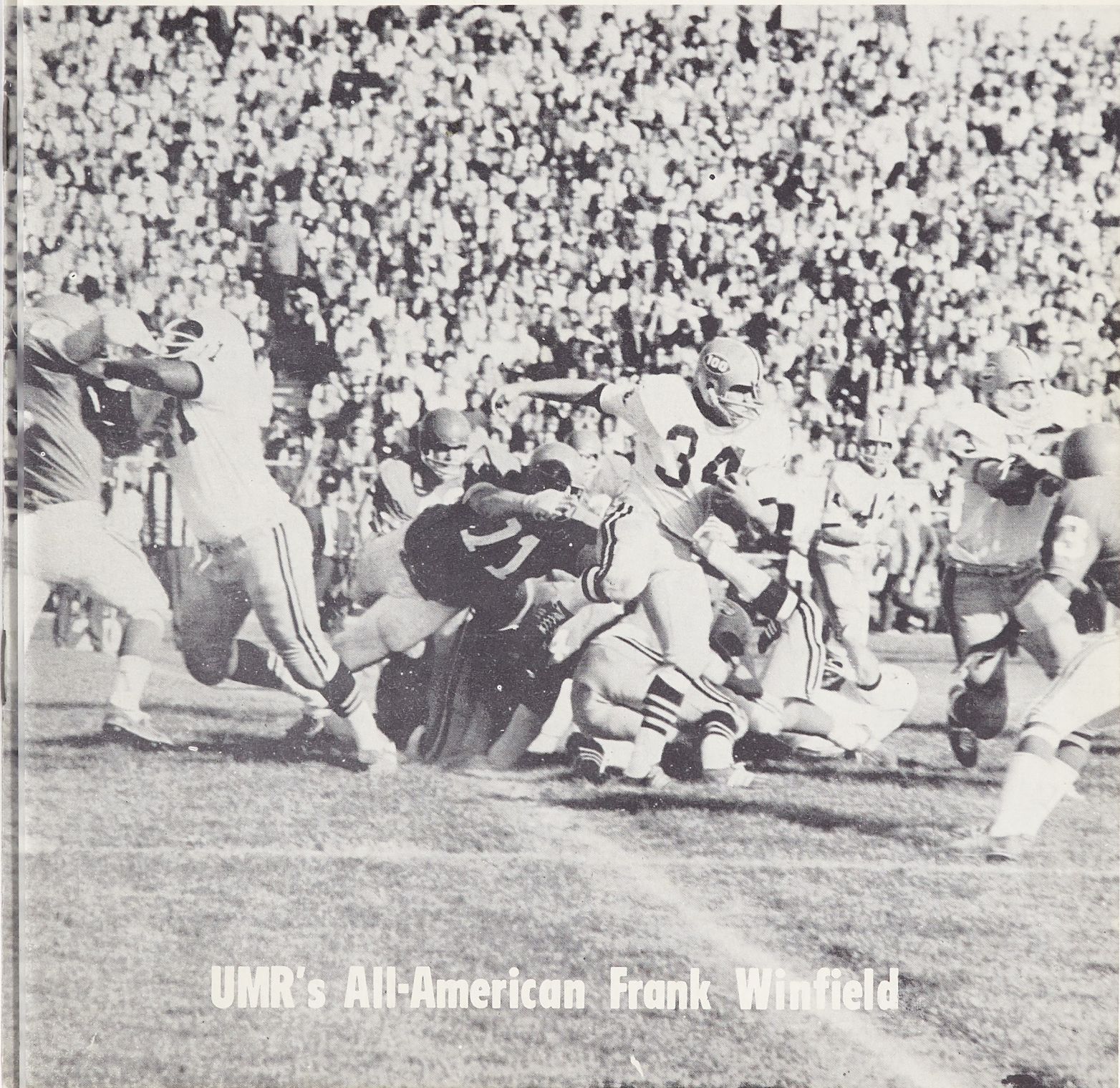
JAN 29 1970

December 1969



Alumnus

UNIVERSITY OF MISSOURI - R O L L A



UMR's All-American Frank Winfield

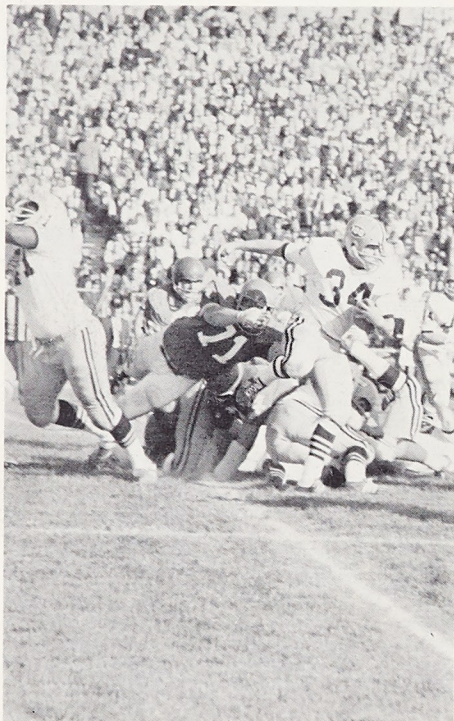


Alumnus

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

Volume 43
DECEMBER 1969
Number 6

ON THE COVER



All-American Frank Winfield (No. 71) charges the line.

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. Subscription price, \$1.50, included in Alumni Dues. Entered as second class matter October 27, 1926, at Post Office at Rolla, Missouri 65401, under the Act of March 3, 1897.

1969 Homecoming a Gala Event

Homecoming 1969 was a grand occasion on the UMR campus. Each year this gathering of alumni becomes larger and each year we wonder if we will have the necessary facilities to accommodate the increasing number who return.

The first event was the dedication of the Multi-Purpose Building at 2:00 p.m., Friday, October 24. At 6:00 p.m. the Homecoming Parade followed a route up Pine Street to the intramural athletic field where the traditional pep rally and bonfire attracted a large crowd.

This was followed by the Early Arrivals and Welcoming Banquet at the Carney Manor Ballroom where alumni, guests and friends of the school had a most enjoyable evening. Among the honored guests were Dr. John C. Weaver, President of the University of Missouri and Mrs. Weaver; and the Honorable Richard H. Ichord, Member of Congress, 8th Missouri District.

Saturday noon, alumni in the classes of '24, '29, '34, '39, '44, '49, '54, '59 and '64 met for Reunion Luncheons. The class of '44 had the largest attendance.

At 2:00 p.m., spectators-8,000 strong-were present at the New Jackling Field to witness the Homecoming football game, the Miners vs. the Cape Indians. During the half-time activities, Miss Betsey Thompson, a teacher in the Berkley (Mo.) High School, was crowned Homecoming Queen by James J. Murphy, president of the Alumni Association. The 17-to-7 half-time score changing to a 32-to-24 final tally in favor of the Indians, did not wane the spirit of the homecoming alumni for long.

The alumni assembled again, with their guests and friends, at 6:30 p.m. at the Carney Manor Ballroom, for the Awards Banquet. Jim Murphy was the master of ceremonies and presented the awards.

Harry S. Pence '23, past president of the Alumni Association, spoke recalling the route of the Association has taken and alumni personalities through the years.

The Alumni Association Awards were conferred upon ten individuals for their

contributions to the school, the Alumni Association and their professions.

The awards and their recipients are listed elsewhere in this issue.

Brief remarks were made by Chancellor Merl Baker; Dr. F. Stillman Elfred '17, Chairman of the Centennial Priority



Jim Murphy, MSM Alumni President, crowns Homecoming Queen, Miss Betsey Thompson.

Campaign, Dr. Bill L. Atchley '57, Director of Centennial Events, and Dr. Aaron J. Miles '30, Coordinator of the Centennial Campaign.

The annual meeting of the Alumni Association was held after the banquet. The names of the new directors of the Association were announced and those who were present were introduced. The Association's accomplishments in 1969 and the objectives for 1970 were omitted in a statement by the president.

After adjournment many remained to visit old acquaintances and to meet others they had only known by name.

The 1970 Homecoming will be October 23 and 24.

1970 will be a busy year at UMR and there will be many activities during the celebration of our 100th Anniversary. Plan now to return for Homecoming or other Centennial Events.

Ten Honored at 1969 Homecoming Awards Banquet

The Alumni Association honored 10 men at the Annual Awards Banquet held during homecoming at the Carney Manor Ballroom. Honorees were selected by an anonymous committee of alumni and were presented plaques for their achievements.

Roscoe B. Goslin, assistant professor of economics at UMR, was presented the alumni merit award for outstanding services in teaching.

Dr. James J. Scott '50, chairman of the UMR department of mining and petroleum engineering, received the outstanding service award for research.

Honored for exemplary devotion to students was Professor C. James Grimm '30, of the UMR department of electrical engineering.

UMR Chancellor Merl Baker was given the outstanding service merit award.

David Flesh '23, an independent geological consultant from Jefferson, Tex., was honored for inspirational devotion to his school.

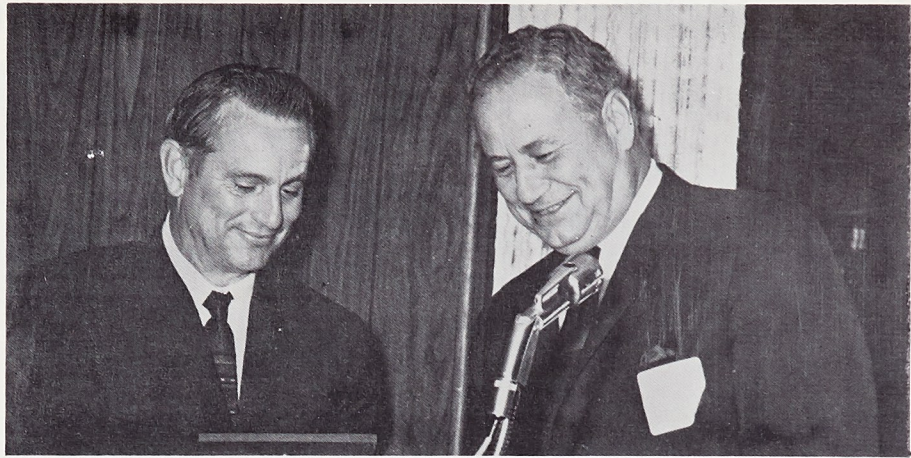
Raymond O. Kasten '43, manager of application engineering for Armco Steel Corp., Kansas City, was given an award for distinguished devotion to his school.

Dr. Leonard Nelson '49, president of the West Virginia Institute of Technology received the award for outstanding academic accomplishments.

United States Congressman Richard Ichord was honored for outstanding public service.

Professor Charles Remington '49, of the UMR department of mechanical engineering, was honored for outstanding service in professional societies.

Francis C. (Ike) Edwards, executive secretary of the alumni association, was given an honorary life membership in the alumni association.



Congressman Ichord receiving Plaque from President Jim Murphy



Chancellor Baker



Jim Grimm



David Flesh



Dr. Goslin



Dr. Nelson



Ray Kasten



Dr. Scott

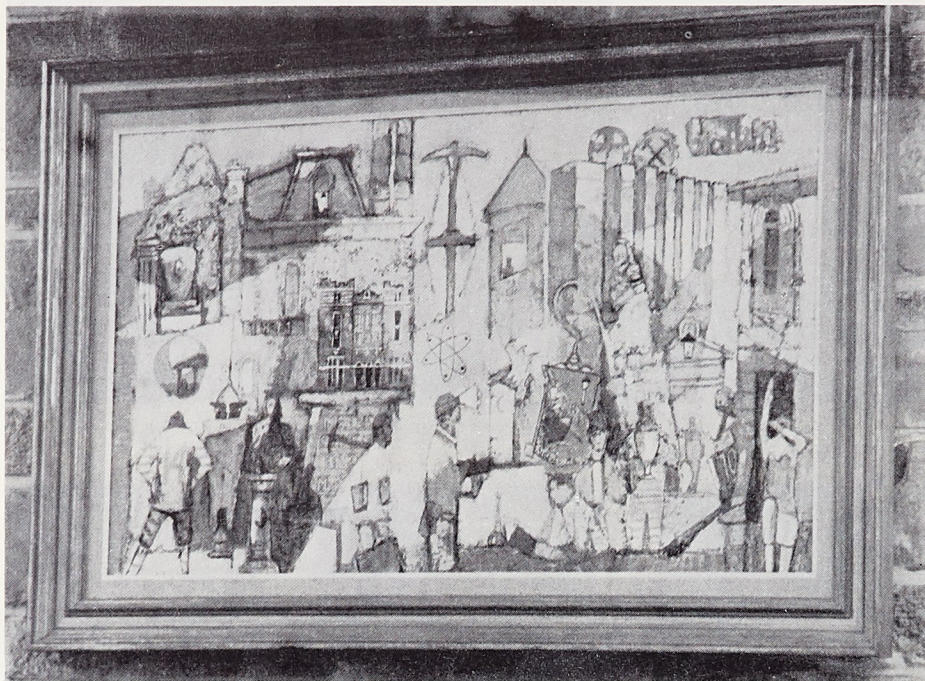


Ike Edwards



Charles Remington

First 100 Years at UMR Depicted by Artist St. Louis Graduate Center



By Fred Conway

The reproduction above is one of a painting by the prominent St. Louis artist, Fred Conway, who designed the mural-type picture as the cover for the 1970 Rollamo. It depicts through buildings, events, and personalities the historical development of UMR.

Reading chronologically from left to right may be seen the Rolla Building with the date 1871, the upper ivy-covered facade of Old Chem, a buggy parked by the smoke stack atop Norwood Hall (Halloween prank of the pre-automobile age), a corner of the old Pavilion (transferred to the campus from the 1906 World's Fair in St. Louis), a proud member of the 1914 football team, a professor hanging in effigy, the statue of Parker, the sun-dial (from the front of Norwood), the old Tau Beta Pi sign (which bore the old name of the school, Missouri School of Mines and Metallurgy), Jackling gym (now gone), and the smokestacks of the power plant.

On the right side of the picture is the facade of the new library, the burning of the out-house in front of the Chancellor's house (a Halloween prank which is now a past tradition), the symbol of the fraternity system bearing the new name of the school, symbols of independent

eating clubs, the marquee of the Uptown Theater, a doorway of the New Chem building, an upper window of Parker Hall, a winner of the annual Homecoming pajama race, a freshman bearing a shillelagh, and dominating the whole thing, the spirit of St. Patrick.

Students from various eras are illustrated, including a girl cheer-leader, indicating the advent of the coed in greater numbers in recent years.

Because the Rollamo staff was so

The 853 evening students at the St. Louis Graduate Engineering Center this semester represent 108 St. Louis area companies, according to Dr. Anton deS Brasunas, director of the center. The center is administered through the University of Missouri - Rolla Extension Division.

Students are working toward Master's degrees in computer science, engineering administration, engineering mechanics and aerospace, civil, electrical, mechanical and metallurgical engineering in the evenings, while being employed full time in St. Louis area industries by day.

Most of the students represent the McDonnell-Douglas Corporation. A total of 306 are employed at the corporation; 86 students are employed at the Monsanto Company, 48 work at Emerson Electric, 41 with the U.S. Army Corps of Engineers, and 27 with Union Electric Company.

pleased with the painting, they decided to have reproductions made, particularly for alumni. These reproductions are 20 x 12 inches with a three-inch border, and were designed for framing. They are available for \$2.50 and will be mailed to you in protective tube. All receipts for these reproductions will be contributed to the new University Center fund. Please use the order form below, and make checks payable to the Rollamo Fund.

The Rollamo
University of Missouri -- Rolla
Rolla, Missouri 65401

Enclosed is my check for \$..... . Please send me copies of the reproduction of "UMR -- The First 100 Years" at \$2.50 per copy.

(Please make check payable to The Rollamo Fund.)

Name
Street
City State Zip Code

Multi-Purpose Building Dedicated October 24

Ed Macauley, KTVI sports director in St. Louis, and Dr. Harry Kessler '24, world renowned boxing referee and president of the Meehanite Metal Corp., St. Louis, gave the keynote addresses at the dedication ceremonies of UMR's new Multi-Purpose Building, October 24.

Macauley, who is a former pro basketball player for the Boston Celtics and St. Louis Hawks, past coach of the Hawks and former All-American in basketball at St. Louis University, spoke on the values of intercollegiate athletics.

Kessler, who also spoke on sports, is a UMR graduate in metallurgical engineering and holds an honorary doctor of engineering degree from UMR. In addition to being a leader in his profession, particularly in the areas of cast iron metallurgy and foundry design, he has refereed more than 3,500 fights, 120 of which were on national television.

The \$2.4 million Multi-Purpose Building, first opened for use this summer, features an indoor swimming pool, varsity and intramural basketball courts with a bleacher seating capacity of 5,000. For cultural events the seating capacity is even greater.

The dedication ceremonies were held in conjunction with Homecoming festivities, October 24-25.

Banquet Speaker



Harry S. Pence

December 1969

*Dr. and Mrs.
Harry H.
Kessler '24
celebrated
Homecoming
and their
twenty-sixth
Wedding
Anniversary
in Rolla
October 24*



Dr. George Mueller Joins General Dynamics

Dr. George E. Mueller '39, former associate administrator for manned space flight, National Aeronautics and Space Administration, has been appointed a vice president of General Dynamics, One Rockefeller Plaza, New York, N.Y.

Dr. Mueller, whose resignation from NASA is effective December 10, will assume his new position immediately. He will have responsibility for systems programs and development.

"We are delighted that Dr. Mueller's unique scientific and engineering talents will continue to serve the nation's technological progress," was the statement of Roger Lewis, President of General Dynamics.

Dr. Mueller assumed direction of NASA's manned space flight program on September 1, 1963. In this capacity he has been responsible for the planning, direction, execution and evaluation of NASA's overall manned space flight program. These functions include management authority over the George C. Marshall Space Flight Center, Manned Spacecraft Center and John F. Kennedy Space Center.

Dr. Mueller joined NASA in 1963 Space Technology Laboratories, Redondo

Beach, California, where he was vice president for research and development.

A native of St. Louis, Missouri, he received his B.S. degree in electrical engineering, from Rolla, in 1939, his M.S. degree from Purdue U., in 1940. Following graduation from Purdue, he joined Bell Telephone Laboratories where he conducted television and microwave measuring experiments. He pioneered there in the measurement of radio energy from the sun, in microwave propagation and in the design of low-field magnetrons.

In 1951, he received a doctorate in physics from Ohio State U., where he was professor of electrical engineering from 1952 until 1958 when he joined Space Technology Laboratories. UMR conferred an Honorary Doctor of Engineering degree upon Dr. Mueller, in 1964, in recognition of his professional accomplishments.

Dr. Mueller is a fellow of the Institute of Electronics and Electrical Engineers, and his memberships include the Air Force Association, American Association for the Advancement of Science, the American Physical Society, and the American Geophysical Union.

UMR's Artist Designs Medallion for Centennial Anniversary



A medallion has been designed and cast as a memorabile for the 100th anniversary of our school.

The obverse side of the medallion is shown at the left and the reverse side at the right. It is three inches in diameter and cast in bronze.

The design is the creation of the school's artist, H. Ramon Sparling, and is most attractive.

The Alumni Association has purchased a supply of these medallions for resale and they may be obtained for a fee of \$6.50 and by mail \$7.50.

It is certain that many will want this commemorative medallion. Make your check payable to the MSM Alumni Association, University of Missouri - Rolla, for the amount applicable to the method of delivery. The supply is limited and they will be sold on a "first come, first served" basis.

A smaller medallion, one and one-half inches in diameter, same design, has been cast for sale to students. These are also in bronze.

A limited number of the large medallions has been cast in silver. These are serially numbered, registered, and will be used by the school as special awards to distinguished individuals. These are not for sale.



Shrine Honors Students For Part in Charities

The South Central Missouri Shrine Club was host for a dinner honoring UMR students for their charitable activities.

Students representing some 50 campus organizations were present for recognition for their activities, such as raising more than \$8,000 for the Phelps County March of Dimes, the South Central Missouri Shrine Club and Boys Town of Missouri during the past year; giving over 200 pints of blood for Red Cross; and doing repair work on St. Louis inner city churches, centers and housing areas.

Missouri's Attorney General John Danforth was the guest speaker. Among the special guests were Judge William H. Billings, President of the University of Missouri Board of Curators; the University's president, Dr. John C. Weaver; Chancellor Merl Baker; Dr. A.G. Unklesbay, the University's Vice President for Administration; Curtis Logan, mayor of Rolla; Herman Morris, potentate, and Russell Wilcox, recorder, of the Abou Ben Adhem Temple, Springfield; and William Sowers, president of the Rolla Chamber of Commerce.

Walter Werner, president of the Shrine Club, coordinated the banquet.

JOIN THE CENTURY CLUB

Alumni Dinner During the American Institute of Mining, Metallurgical & Petroleum Engineers

*Convention in
Denver, Colorado
Monday, February 16
6:00 P. M.
Petroleum Club*

Contact Dr. Dean Kleinkopf
1022 S. Beech Drive
For Reservations

Alumni Dinner San Francisco, California

*Officers Club
Terrace Room
Naval Air Station
Alameda, California
7:00 P. M.
January 29*

For reservations
Contact
Murray Schmidt
3011 Marina Drive
Alameda, Calif. 94501

1970 ANNUAL ALUMNI FUND REPORT

Sept. 1, 1969	Dec. 31, 1969
<i>Donors</i>	<i>Dollars</i>
1,834	\$23,230.37
Sept. 1, 1968	Dec. 31, 1968
<i>Donors</i>	<i>Dollars</i>
1,692	\$20,021.00
1970 Fund Goal	
<i>Donors</i>	<i>Dollars</i>
4,000	\$56,200.00

Area Directors Installed

The four alumni area directors who were elected by mail ballots in August, were installed at Homecoming at the annual meeting of the Alumni Association.

Dr. Larry Farmer '61, president of L. E. Farmer, Inc., Atlanta, Ga., was installed as Director Area No. 2, which comprises Southern Arkansas, North Carolina, South Carolina, Louisiana, Mississippi, Alabama, Georgia and Florida.

George J. Decker '39, assistant regional manager for Schlumberger Well Services, Denver, Colo., was installed as Director, Area No. 8, encompassing Idaho, Montana, North Dakota, South Dakota, Wyoming, Colorado, Nevada, Utah, and the provinces of Manitoba, Saskatchewan, and Alberta.

Two incumbent directors were installed. They are O. W. Kamper '35, assistant to the vice president-mining for Harbison Walker Refractories Co., Pittsburgh, Pa., and Frank C. Appleyard '37, director-mining and exploration, U.S. Gypsum Co., Chicago, Ill. Kamper will direct Area No. 3, which includes Pennsylvania, West Virginia, Ohio, Kentucky, and Tennessee. Appleyard will direct Area No. 4, which includes Northern Illinois, the Chicago industrial area in Indiana, and states of Wisconsin, Michigan, Minnesota and province of Ontario.



Robert C. Weigel '34

The only member of the Class of 1934 present for the Reunion Luncheon.

December 1969



Administrators view a prize specimen of Missouri galena. Left to right: Chancellor Merl Baker; Dr. A. G. Unklesbay, Vice President for Administration, University of Missouri; Harold Krueger '42; and Dr. John C. Weaver, President of the University of Missouri. Dr. Unklesbay is a noted geologist also.

47 Army Officers in UMR Multi-Crystal to Museum

A total of 47 United States Army officers are attending UMR full time this semester.

The officers arrived on campus during the summer from assignments all over the world. Nearly all are veterans of at least one tour of duty in the Republic of Vietnam.

The officers represent the Corps of Engineers, Quartermaster Corps, Field Artillery, Chemical Corps and Signal Corps. They are seeking Bachelor of Science and Master of Science degrees in engineering management and administration, civil engineering, petroleum engineering, aeronautical engineering and electrical engineering. One is studying toward a Ph.D. degree in chemical engineering.

Pittsburgh Section Alumni Meeting

Saturday, February 7, 1970

Stouffer's in Oakland, Pa.

128 North Craig Street

Contact: O. W. Kamper '35, 5 Woodland Drive, Pittsburgh, Pa., for Reservations and Information.

The Ozark Lead Company gave a multi-crystal of galena, the principal Missouri lead ore, to the UMR Mineral Museum.

Harold A. Krueger '42, general manager of the company, which is a subsidiary of the Kennecott Copper Corporation, made the presentation during UMR's homecoming celebration.

Dr. Tom Beveridge, chairman of the Department of Geological Engineering and Geology, states that the specimen, which came from the company's mine in Reynolds County is the largest and most perfectly developed crystal aggregate he has seen.

Krueger said that the galena was given to the school as a memento to recognize the graduates of UMR who, through diligence and imagination in applying their various segments of training, have advanced the minerals industry in Missouri to make it one of the top ranking mining states in the nation's leading lead producer.

"Stubby" Krueger excelled in football too, while at Rolla.

Donors to the UMR University Center Fund

The following list of donors to the University Center Fund was furnished to the alumni office by the centennial office. Not included on the list are the names of the 106 faculty and staff members who have made donations to the Center. Names of this category of givers are being held confidential due to a "prior to solicitation" agreement of all concerned. Your favorite alumni member of the faculty has undoubtedly given. We encourage your participation in this vital project.

- | | | | | |
|-------------------------------------|------------------------------------------|-------------------------------------|---------------------------------|----------------------------------|
| Adams, Joseph T. | Clippard, James A. | Gross, Henry E. | Kozeny, Donald J. | Pence, Harry |
| Alcoa Foundation | Coghill, William V. | Guest James O. | Krainess, Albert M. | Perkins, James B. |
| Alford, Rex | Cook Paint & Varnish Co. | Guilfoy, Donald C. | Krebs, J. J. | Perry, Ernest L. |
| Alonge, Nicholas J. | Cooke, W. F., Jr. | Gygax, Edward E. | Kreikemeier, Kraig G. | Pfeifer, Herman J. |
| American Metal Climax
(AMAX) | Corn Products Co. | Haecker, Chris | Kroeter, Alvin M. | Phillips Petroleum Corp. |
| Andrews, J. Lewis | Corwin, Robert | Hahn, James H. | Kummer, Frederick S. | Pitlyk, James O. |
| Anonymous Gift | Cotterill, Carl H. | Halbach, Ronald E. | Kyburz, Edward P. | Pohlig, Kenneth C. |
| Armco Foundation | Courtney, Robert M. | Halliburton Education
Fdn., Inc. | Lamers, Clarence W. | Potter, Charles J. |
| Asher, Vernon L. | Crawford, Duane A. | Hamilton & Son, Inc. | Landers, Lee Paul | Powers, Harold R. |
| Assn. for Advancement
of MSM&M | Cunningham, Robert | Harbison Walker
Refractories | Lawson, Lynn D. | Prange, Herbert L. |
| Astroth, Louis E. | Dabner, Melvin K. | Hasselmann, Karl F. | Leber, Walter P. | Prange, Robert L. |
| Atlantic Bearings &
Drives, Inc. | Dampf, Donald P. | Henson, Gerald Lee | Leonard, Homer | Priebe, Franklin D. |
| Axmacher, George | Darr's Department Store | Heuer, Barry S. | Ling-Temco-Vought, Inc. | Prives, Charles M. |
| Baechle, August A. | Davis, William F. | Hillcrest Big Star
Supermarket | Little Piney Oil Co. | Radentz, Donald E. A. |
| Bagby, Gary A. | Dennis, William E. | Hillcrest Drug, Inc. | Lodes, Tom | Ragains, Wilbur G. |
| Bailey Realty | Desloge, Taylor S. | Hoeman, Arthur J. | Logan Electric | Rako, Carl G. |
| Ballass, John T. | Dobson, Richard J. | Hoevel, Kenneth | Long Insurance Agency | Ray, Robert L. |
| Ballman, Edward A. | Donaldson, George R. | Holman, Oscar Keith | Loveridge, Warren L. | Redington, David L. |
| Barsachs, Edwin H. | Dowling, Paul T. | Honigfort, Henry F. | Lynton, Edward D. | Reeves, Theodore J. |
| Bauer, Richard H. | Duncan, Oscar M. | Howell, Bennett | Malsch, Peter H. F. | Reid, Joseph H. |
| Baumgardner, J.
J. Dwane | Dunn, Ervin E. | Hoyt, Garlan K. | Markley, John S. | Reilly, James J. |
| Beatty, Ren | Dyer, Garvin H. | Hudson, T. Harry | Mattei, Peter F. | Rhodes, A. E. |
| Beaver, M. H. | Eason, Jack L. | Hudwalker, Marvin E. | May Printing Company, Inc. | Richardson, James K. |
| Bentrup, Eugene A. | Edgar, Max E. | Itschner, E. C., Lt Gen | Meehan, Michael E. | Ridley, Robert P. |
| Berkbigler, Roger L. | Elfred, F. Stillman | Jarboe, Rupert A. | Mellow, George E. | River Cement Company |
| Bersett, Tom | Ellis, J. Craig | Jarrett, Walter T. | Metz, Gilbert F. | Roberts, James F. |
| Bethlehem Steel Corp | Elwood, William H. | Jauer, Richard A., Jr. | MFA (Rolla Farmers)
Exchange | Robinson, Lee B. |
| Bill's Burger Basket | Faenger, Robert A. | Jenks, Wm. S. &
Catherine G. | Mikelionis, Lawrence J. | Roerman, Richard J. |
| Boillot, Charles R. | Farmer, John O. | Johnson, Charles W. | Millstone Foundation | Rolla Craft-Hobby |
| Bow Wow Dog Food Co. | The Fashion Shop | Johnson, Dennis | Mo. Lead Operating Co. | Rolla State Bank |
| Bowers, C. G. | Faust, Terry | Judah, Russell, Jr. | MOBIL | Ross, Richard G. |
| Bowers, Donald R. | Fick, Armin F. | Jung, Bob | Monroe, Rex | Roth, William F. |
| Boyer, Tracy R. | Finagin, Joseph C. | Kaletta, Gary Ray | Mooney, Edward W. | Rothband, Paul B. |
| Brackbill, Robert M. | Finch Jewelry | Kamp, Alan A. | Mooney, Joseph W. | Russell's Town &
College Shop |
| Brenneisen, J. F. | Firman, Harry W. | Kamper, Oliver W. | Moranville, James C. | Salarno, Stephen P. |
| Brillos, John W. | First State Bank | Karbosky, Joseph T. | Morris, Charles T. | Sarapuu, Erich |
| Brown, Guy, Jr. | Flynn, John D. | Kasten, R. O. | Murphy, James J. | Scheinman, John A. |
| Brown, Robert S. | Fogarty, Edwin R. | Kelly, Mervin J. | McBride, Roy N. | Schmitt, Karl J. |
| Buchanan, D. W. | Fort, George | Kemper, C. L. | McDaniel, Hulon D. | Schmoldt, Hans E. |
| Buckles, Richard E. | Friederich, G. C. "Bud" | Kennedy, Daniel | McGhee, Vernon
Thomas | Schneider, Edward P., Jr. |
| Burton, Robert E. | Fritschen, Herman A. | Kent, Nevada Alpine | McKelvey, James M. | Schuchardt, Robert E. |
| Cable, John W. | Gabler, George C. | Kentnor, Charles B., Jr. | Needles, Enroch R. | Schuette, Louis H. |
| Campbell, E. Taylor | Gaines, George D. | Kessler, Harry H. | Neustaedter, James A. | Schuman, Alma M. |
| Capital Savings & Loan | Gammeter, Elmer | Kettler, Gerald J. | Nooter Corporation | Schwarz, Arthur S. |
| Carnahan Realtors | Gammon, William H. | King, Frank W. III | Norman, Amos | Scott, Larry W. |
| Cassell, Ralph M. | General Cable Fund | Kirberg, Leonard C. | Nowinski, Stanley W. | Scott's Drugs,
Books & Music |
| Cerro Corporation | Giger, D. Franklin | Klebbba, Kenneth T. | Ogle, Herbert F. | Seagram's Distilling Co. |
| Charles, Roy T. | Gittemeier, Joseph F. | Klorer, Robert | Oldham, Douglas G. | Sears, Thomas J. |
| Chen, Willie Y. | Gloriod, Paul W. | Koenig, Gary R. | Olin Mathieson
Char Trust | Segasture, Robert G. |
| Christian, Charles E. | Glucksman, Sheldon | Kollar, Ray E. | Olin Mathieson
Chem. Corp. | Shaffer, Al |
| Chu, Gordon P.K. | Granite City Steel C.
Co. Char. Trust | | Ozark Equipment Co. | Sheppard, Keith D. |
| Cities Service Co.
Foundation | Gray, Joe E. | | Ozark Lead Company | Shockley, Gilbert R. |
| Claridge, Elmond L. | Graybeal, Joseph W. | | Palmer, Clarence C. | Short, W. Irwin |
| | Greeley, Richard G. | | Panhorst, Al | Siess, Robert D. |
| | Green, Charles E. | | | Simpson's Hillcrest
Variety |
| | Greenberg, Aaron J. | | | |
| | Greer, Rex Eugene | | | |

Sloss, James P.
Smith's Service Station
Soult, John P.
Spalding, John V.
Spehr, James L.
Statler, Kennyn D.
Stephens, James W.
Stevens, Harvey C.
Stewart, Leslie D., Jr.
Stifel, Carl G.
Stroup, Robert K.
John Russell Stubbins
Foundation

Sunray DX Oil Co.
Tanguary, Clifford C.
Tarantola, Bruce E.
Tektronix, Inc.
Telthorst, Edgar John
Thomas, George S.
Told, J. Douglas
Tomasek, A. J.
Tothill, Charles E. B.
Tragitt, E. Rowland
Twitz City

Underwriters Labs, Inc.

Union Electric Co.
Vacca, Herman L.
Valerius, Claude N.
Vandivort, Clyde A.
Vark, William J.
Vern's Men's Store
Volz, Herbert A.
Walker, John A.
Walker, William D.
Wallace, Hoyt R.
Walther, James J.
Wampler, Harold R.
Wanenmacher, Joseph M.

Watson, H. W. "Gene"
Weber, Arthur J.
Whittelsey, Charles C.
Williams, Rex Z.
Williams Shoe Store
Williams, W. S.
Wilson, Glen E.
Wilson, Joseph M.
Woerheide, A. E., Jr.
Wolfenbarger, Samuel Lee.
Wolverton, Joseph Harold
Wright, Clarence J.

Wright, Wilford S.
Yochum, Kenneth H.
Yochum, Robert J.
Yorston, Howard J.
Zoller, H. E.
Zoller, Lawrence J.
Zoller, Victor H.

PLUS
106 Faculty and Staff,
Graduate Students
and school organi-
zations

\$1,228,500 for THEMIS Projects Accepted

The THEMIS projects totaling \$1,228,500 have been accepted for the Rolla campus. The grants are from the United States Department of Defense, Office of the Director for Resource and Engineering.

The general objective of Project THEMIS is to strengthen the scientific and engineering capabilities of selected academic institutions by encouraging the development of interdisciplinary research teams capable of high quality research in areas related to problems of national defense.

A grant of \$200,000 from the Office of Naval Research is the second installment of a \$600,000 THEMIS project started during the summer of 1968 under the direction of Dr. James L. Kassner, director of the Graduate Center for Cloud Physics Research of the Space Sciences Research Center at Rolla. The research is entitled "Basic Studies of Aqueous Aerosols (As Related to Atmospheric Processes)."

Several studies are included under this project. The collision and coalescence of droplets and the aerodynamics of droplets and droplet pairs in free fall is being investigated by means of a sophisticated vertical atmospheric wind tunnel. Ways of characterizing the microscopic and sub-microscopic atmospheric particles upon which clouds form, are being studied. The properties which cause certain types of particulates to induce the freezing of supercooled water droplets is being researched. Aspects of droplet growth are being studied. A means of measuring the sizes of cloud droplets employing a spe-

cial laser scattering technique is being developed.

An initial \$428,500 contract from the Department of the Army is for a research project entitled "Investigations of Mechanisms of Rock Response to Variable Energy Loads" under the direction of Dr. George B. Clark, director of Rock Mechanics and Explosives Research Center.

The research will seek to learn more about the basic science of rock behavior and to apply this information to rock excavation to make it cheaper, easier and faster.

Cincinnati-Dayton Section

The Cincinnati-Dayton Section of the Alumni Association held their fall meeting at the Golden Lamb Inn, Lebanon, Ohio, November 7.

The group was welcomed by their chairman, Harold Kosten '60, and two new officers were elected. Eldon Kibbey '66 is their new Vice President and David Lee '68, is the in-coming Treasurer. Dr. Bill L. Atchley '57, Assistant to the Dean Engineering and Director of Centennial Events, and Ike Edwards were present from the campus.

After brief talks by the campus visitors the group was entertained by Perle L. Whitehead, lecturer, raconteur and humorist. He recently retired after 41 years in scouting.

Among those present were: Dr. B. L. Atchley '57; Mr. and Mrs. Barry L.

A \$600,000 contract from the Air Force Office of Scientific Research is for research on "Surface Electron States and Surface Structural Studies of Electronic Materials" under the direction of Dr. William J. James, director of the Graduate Center for Materials Research of the SSRC.

Areas of research include: Studies on density of surface S-states via Mosebauer experiments, electron surface states in semi-conductors, electron states in doped epitaxial layers of silicon, electron-phonon interactions, surface structural changes as a consequence of vapor deposition, surface growth mechanisms and surface characterization and composition phono interactions.

Bardon '66; Mr. R. A. Bertram '32, Mr. and Mrs. Will Brewer '32; Mr. and Mrs. Peter Balser '65; Mr. and Mrs. Larry Boberschmidt '67; Mr. and Mrs. Mike Browne '67; Mr. and Mrs. Truitt DeGeare, Jr '67; Mr. and Mrs. Bob Doelling '48.

Ike Edwards; Mr. and Mrs. A. B. Hoelker '68; Lt. and Mrs. John W. Johnson '69; Mr. and Mrs. Harold W. Kosten '60.

Mr. and Mrs. Robert Kick '44; Mr. and Mrs. Harvey Leaver '48; Mr. and Mrs. Steve Leaver '68 (UMC); Mr. and Mrs. David W. Lee '68; Lt. H. Lewis '67 and guest; Mr. and Mrs. E. Mengel '49; Mr. and Mrs. J. C. Moore '69; Mr. and Mrs. Robert J. Morris '51; Mr. and Mrs. John Munsey '67; Mr. and Mrs. Richard Okenfuss '57; Mr. Vijay Rostogi '62; Mr. and Mrs. Roger Scrivner '52; Mr. R. Patrick Skow '61; Lt. and Mrs. Albert Spencer '67; Mr. and Mrs. Glen W. Sutton '49 and Mr. William G. Weber '62.

Basketball Season Gets Under Way

Head Coach Billy Key and his University of Missouri - Rolla Miners began daily basketball workouts in mid-October with 10 returning lettermen and another rebuilding problem. Gone from last year's squad which finished 5-17 are Wayne Lewis, 6-5 forward, and Mike Windish, a starting guard.

Coach Key, however, has recruited a fine group of freshmen and a transfer who will see plenty of action this year. Rex Medlock, a Jefferson Junior College product, will take Windish's spot in the starting five. Medlock has great ball-handling abilities and should, therefore, lead the fast-breaks Key hopes for.

Also on the starting lineup this year is the Miner's only senior, Captain Bob Hurt. Hurt led the team in scoring with 14 points per game last season and was extremely valuable under the boards. The Springfield-Parkview product was al-

so selected to the second all-conference team.

Junior Chuck Ferry will hold down a forward position along with Erick Gredell. Ferry saw a lot of action last year but he was a victim of fouls. A St. Louis-Cleveland graduate, he possesses the height (6'6") and the shooting ability to make him an all-conference consideration.

Gredell, a sophomore from Kansas City-Hogan, became a starter about mid-season last winter and has since then been on the starting five. He is a fine shooter as well as a hustler which can be proven by the fact that he led Kansas City scorers his senior year at Bishop Hogan.

Manning the starting center position for the Miners will be sophomore Keith Davidson. He is also a fine shooter but has been hampered by stamina problems. Don Morford, a 6'10" junior, will spot

the big sophomore when the need arises.

Among the fine group of promising freshmen prospects is Rodney LeGrand. As an all-state selection, he paced his Oran High School team to the state finals against Dixon last winter. He will see plenty of action on both the junior varsity as well as varsity squads. Paul Pederson, St. Louis-Lutheran South, and Stewart Scott, DeSoto, are also performing well. Scott averaged 28 points a game last year and also set a school record with 44 counters in one game.

Resident Hall Rates Up

Increases in rates for residence halls and married student housing have been approved by the Board of Curators of the University of Missouri. The increases were necessary, the Board said, due mainly to increased costs of wages and food.

The new rates apply to the University's campuses at Rolla, Columbia and Kansas City. The University has no housing on the St. Louis campus.

Effective September 1, 1970, the residence hall rate, covering both room and board, at the Rolla and Columbia campuses will be \$940 for a nine-month school term. This is an increase of \$90 over the present rate of \$850. This rate is for a student living in a double room, which is the arrangement affecting the vast majority of students. The rate includes 20 meals a week.

At Rolla, the new rates for married student housing will be as follows effective Sept. 1: One-bedroom apartment, \$75 a month, an increase from the present \$70; and two-bedroom apartment, \$90 a month, an increase from the present \$80.

On the Rolla and Columbia campuses the summer session rate for residence halls will be \$200, an increase of \$20 from the present \$180 rate. This is the rate for a double room and includes 20 meals a week. Summer session rates are effective this summer.

Rate schedules for University residence halls and married student housing last were changed in 1967.

1969-70 UMR Basketball Schedule

Thursday, December 4	Washington University	Rolla, Mo.
Saturday, December 6	Harris Teachers College	Rolla, Mo.
Monday, December 8	Kansas (Pittsburg) State College	Pittsburg, Kan.
Saturday, December 13	CMS, Warrensburg	Warrensburg, Mo.
Monday, December 15	SWMS, Springfield	Rolla, Mo.
Friday, December 19	Southeastern State (Okla.)	Rolla, Mo.
Saturday, December 20	Southeastern State (Okla.)	Rolla, Mo.
Monday, December 29	McNeese State College	
Tuesday, December 30	Tournament	Lake Charles, La.
Monday, January 5	University of Texas-Arlington	Rolla, Mo.
Thursday, January 8	University of Wisconsin-Milwaukee	Rolla, Mo.
Saturday, January 10	SEMS, Cape Girardeau	Rolla, Mo.
Monday, January 12	Lincoln University	Rolla, Mo.
Saturday, January 17	Southern Illinois U. (Edwardsville)	Rolla, Mo.
Wednesday, January 28	Harris Teachers College	St. Louis, Mo.
Saturday, January 31	CMS, Warrensburg	Rolla, Mo.
Monday, February 2	SWMS, Springfield	Springfield, Mo.
Saturday, February 7	NEMS, Kirksville	Kirksville, Mo.
Monday, February 9	NWMS, Maryville	Maryville, Mo.
Saturday, February 14	NEMS, Kirksville	Rolla, Mo.
Monday, February 16	NWMS, Maryville	Rolla, Mo.
Saturday, February 21	SEMS, Cape Girardeau	Cape Girardeau, Mo.
Monday, February 23	University of Wisconsin-Milwaukee	Milwaukee, Wis.

(All home games will start at 7:30 P. M.)

Class of 1924 . . .

Reunion Luncheons



Front row, Left to right: Mrs. Kessler, Mrs. Knight, Mrs. Gabler, Alma Schuman, Olive Morris, Professor I. H. Lovett. Back row, from left: Dr. Harry H. Kessler, Bill Knight, George Gabler, Dr. Charles Kentnor, Jr., J. Lewis Andrews.

Class of 1929 . . .



Front Row, Left to right: Mrs. Johnson, Mrs. William Drake, William Drake, Mrs. Kirn, Emmet R. Kirn, Mrs. English, T. O. English, Back Row, from left: Charles W. Johnson, F. W. Hoertel, Mrs. Hoertel, Albert Millar, Mrs. Millar, Mrs. Monsch, Henry Monsch, Mrs. Williamson, Joe Williamson, Mrs. Potter, C. J. Potter.

Reunion Luncheons

... Class of 1939



Seated, Left to right: Mrs. Smith, Leroy Smith, Mrs. Morris, Mrs. Decker, Mrs. Kidd. Standing, Left to right: Lewis Elliott, Muriel Elliott, George Decker, Rae Grimm Bertch, Charles W. Morris, Harold Kidd, Joseph W. Mooney.

... Class of 1944



Seated, Left to right: Mrs. Schmoldt, Hans Schmoldt, Ken Schoeneberg, Mrs. Schoeneberg. Second row, from left: Mrs. Gostin, Mrs. Helberg, Mrs. Thiele, Mrs. Fuchs, Mrs. Weinel, Mrs. Klorer, Mrs. Mellis, Vernon Pingel. Third row, from left: Jim Gostin, Warren Helberg, Mr. Thiele, Pete DuJardin, Alan Fuchs, John Domian, Ernie Weinel, Bob Klorer, Ron Carmichael, Bob Mellis, Robert Setchfield.

Class of 1949 . . .*Reunion Luncheons*

Back Row-Standing: Mrs. Toomey, John Toomey, Mrs. Nelson, Leonard Nelson, Joe Strubert, Mrs. Strubert, Martha DeBolt, Don DeBolt, Seated, clockwise from left back row: Karol Skedzeleski, Mrs. Skedzeleski, Bob Isringhaus, Mrs. Isringhaus, Del Cox, Mrs. Koenig, Fred Koenig, Mrs. Line, Myrl Line, Mrs. McGrath, Jim McGrath, Dan Fentzke, Ted Weissmann, Mrs. Wright, Floyd Wright, Mrs. Daniells, Chuck Daniells.

. . . Class of 1954

*Seated, left to right:
Tom Fuller,
Mrs. Gray, Mrs. Toutz.
Standing-Left to right:
Jim Toutz,
Joe Gray, Herb Lincoln.*



Reunion Luncheons

. . . Class of 1959



Back of Table, from left: Charles Cassmeyer, Mrs. Cassmeyer, John Ruester, Warren Carroll, Mrs. Groves, Richard Groves, John Pasley, Mrs. Pasley, Mrs. Lawson. Front, from left: Gordon Johnson, Mrs. Johnson, Paul Sisk, Mrs. Adams, John Adams, Jerry Bayless, Carl R. Schumacher, Mrs. Schumacher, Neal Lawson.

. . . Class of 1964



Left to right: Ronald R. Henson, Mrs. Henson, S. Stuart Ferrell, Mrs. Murry, Milton J. Murry.

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1969 Miners Have Best Football Season in Years

The 1969 Miner gridsters completed the most successful season they have had for years. They finished a nine-game scheduled with two losses and these two, unfortunately, were to conference teams that kept them from the MIAA Conference championship. They had to settle for second place, as Cape Girardeau and Kirksville tied for top honors.

The season began with the Miners' old rival, Washington University; and the Miners were really up and established the first of many records that were set in the 1969 season. This was the first time Washington University was unable to score in a contest with the Miners since their rivalry began shortly after the turn of the century.

During the season there were 24 individual and 8 team records broken or tied. Leading the pack with nine individual records was Larry Oliver. This senior split end holds the mark for most passes caught — 100, and most yardage gained from passes caught — 1615 — in a career. His 16 touchdown passes caught also broke the old career record of 13 set by Gene Ricker from 1964 to 1967.

Oliver, who has handled the kicking chores for four years, twice this season tied the record for PAT'S in a single game. Oliver booted six against both Bradley and Springfield, tying Bill Wohlert who performed the same feat in 1949. The Miner captain also broke Wohlert's mark of 23 conversions with 27, and Wohlert's career record of 43 with 45. He also tied Art Verti for the most career field goals, with six.

In overall scoring, Oliver along with Bob Berry, son of Jerry T. Berry '49, broke the single season scoring record of 63 points with 66. Oliver surpassed the career total of 139 points set by Ray Parker, 1956-58, by amassing 157 points.

The Miner's tandem quarterbacks, Pat Godwin and Jack Grawe, set three new passing records. Godwin's 24.2 average gain per pass completion against Cape Girardeau broke the previous mark of 21.9 established by Dick Hampel in 1953.

Grawe set two accuracy marks. By completing 88.8 percent of his passes

against Washington U., he erased the old mark of 68.8 percent held by Bill Wheeler, against Springfield, in 1958. His season completion percentage of 56.7 shattered Wheeler's mark of 54.8 set in 1958.

Fullback Bob Berry, his first season in the backfield, emerged as a high scoring ball carrier. Besides smashing the season scoring record, he also tied Bob Nicodemus for the most points in a game with 18, and the most touchdowns rushing with three. Berry's ten touchdowns rushing and 11 total are both new season records. He finished as the Miners' second leading rusher with 483 yards and a 4.1 average.

Berry's backfield partner, Les Clark, was the leading rusher with 740 yards in a record 206 carries. Clark's 44 carries against Missouri Valley broke the record of 35 carries set by Gary Couse in 1963.

On defense, coach Bud Mercier's secondary completely revised the pass interception records. The defensive backfield, paced by starters Eddie Lane, Fred White, Mike Hearst and Joe Passantino, combined for a team record of 28 interceptions and 582 yards in return yardage. The four thefts run back for touchdowns break the record of three accomplished in 1950, and the six interceptions in the Springfield contest broke the mark of five established the previous week at Maryville.

White picked off eight enemy aerials to tie Lane's season mark set in 1966. Ray Parker's record of 26 yards for interception set against Springfield in 1958, was shattered by White's average of 34.5 also against Springfield.

Lane stole seven passes this season to give him a career record of 25 and another mark for most yards gained by intercepting passes with 387 to beat Roger Schoeppel's record of 248 yards which has stood since 1951. Lane's 90-yard return for a TD in the Kirksville class also broke the old record of 84 set by Schoeppel in 1950.

Even freshman Bobby Ajhar got his name in the record books by tying six others with five punt returns in the Kirksville game.

The Miner offense established a new team record by scoring 254 points to shatter the 1949 mark of 231. The 36 touchdowns and 31 points after also set new records.

Perhaps the most pleasing aspect of the entire season to the team and coaching staff were the seven triumphs which gave the Miners their most wins since they joined the MIAA in 1935.

As head coach Dewey Allgood often says, "Statistics are for losers." That may be true, usually, but in this case, the statistics and the records that go with them are for the winners, the "New Era Miners."

UMR Gridsters Dominate All-Conference Squad

The UMR Miners, long the doormat of the MIAA Conference and usually ignored in the all-league team selections, dominated the all-conference squad this year.

UMR, along with Cape Girardeau and Kirksville, has six on the first offensive and defensive teams, but the engineers top the list with a total of 14 players including second teams picks and honorable mention.

Larry Oliver was one of the two repeaters on the offensive platoon. Oliver made it for the third time.

Frank Winfield was named to one of the guard slots on the first team.

Senior tackle Al Zaborac was selected to the second team along with fullback Bob Berry. Steve McVeigh was given an honorable mention at tight end as were Dennis Smith at center, Bobby Somerville at wingback and Les Clark at tailback.

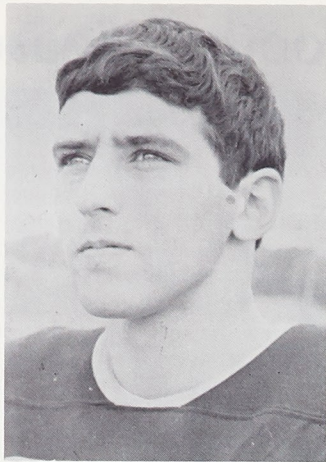
Repeaters on defense include Eddie Lane and Ed Hanstein.

Leonard Stout was the top vote getter at defensive end. Freddie White, who was chosen as the defensive player of the year by his Miner teammates, was elected for the first time to a halfback spot.

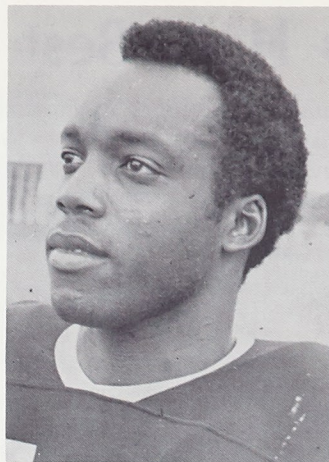
Joe Stroud and Joe Passantino were selected to the second team.



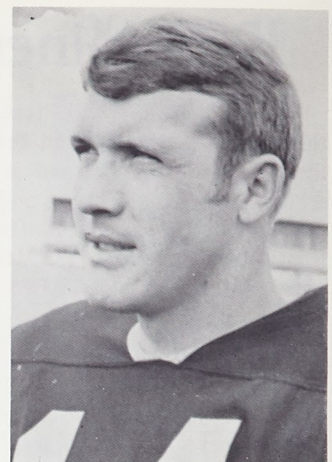
Frank Winfield



Larry Oliver



Fred White



Eddie Lane

Frank Winfield Named on Kodak All-American Football Team

Frank Winfield, an unsung guard on the UMR football team, is among players from 22 different "College Division" schools named to the 1969 Kodak All-American Team by the American Football Coaches Association.

The Kodak squad is among the most prestigious because the players are chosen by those who know best, a national panel of coaches.

In becoming the second Miner player to be named to a first All-American team, Winfield has brought high honor to the school.

Winfield has provided a consistent performance for head coach Dewey Allgood from his strong side guard slot. After each game, the players are graded from the films on a 0-4 point basis. A *two* indicates that the gridder has done his assigned task and a *three* means he has done a superior job. A *four* is occasionally awarded for an extra special block or run.

For the nine-game 1969 campaign, Winfield averaged 2.4, with 96 percent of his blocks being graded above 2.0. With stunting defenses and bigger and better defensive line men, such a consistent record is highly unusual.

"Frank is probably one of the strongest blockers that the MIAA has ever had," Coach Burr Van Nostrand noted. "He was especially adept at the trap block.

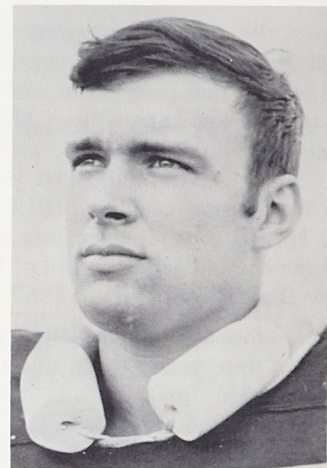
Even other conference coaches commented on that."

Despite the reputation that Winfield has earned for himself around the circuit, he was among the most surprised to learn of the honor. Winfield was quick to give credit to his teammates, and coaches.

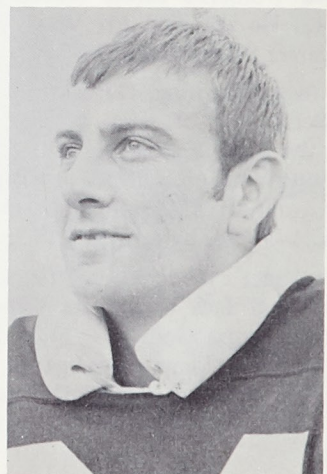
Frank hails from Kansas City where he held the tackle position for four years at Kansas City Central High, and this 6 foot, 240 pounder was chosen on the all-public league his senior year. This year he was moved to guard where he played a major role in several of the new marks established by Miner backs this year. In many of the record 206 times scatback Les Clark carried the ball, he was running behind Winfield. On the Miners' bread and butter off tackle trap, on which Clark totes the ball, Winfield makes the key trap block.

"I guess that I shouldn't have favorites," Coach Allgood said, "but Frank has always been one of mine. I'm at least as happy as he is. Frank's selection will provide a real boost to our whole program too."

Winfield is a senior and when asked about the possibility of playing professional football, he said making All-American helped his chances but he would have to wait and see what happens in the pro draft.



Ed Hanstein



Leonard Stout

MSM Alumnus

1969 MINER FOOTBALL RECORD

UMR	40	Washington University	0
UMR	33	Mo. Valley College	14
UMR	40	Bradley University	12
UMR	14	U. of Illinois-Chicago Circle	6
UMR	24	Central Missouri State College	0
UMR	24	S.W. Missouri State College	32
UMR	14	N.E. Missouri State College	21
UMR	20	N.W. Missouri State College	7
UMR	45	S.E. Missouri State College	12
Total			254
			104

ENGINEERS AND SCIENTISTS WANTED

For information concerning the positions listed below, please contact R. L. Nuss, Director of Placement and Industry Relations, UMR, Rolla, Missouri 65401 and give the File Number of the position.

SYSTEM ANALYST — Senior. Non-hardware oriented, background in manual systems work, 4 to 5 years experience necessary. Good salary. Northern U. S. Refer File No. 350.

PLANT MANAGER — Seven years in all phases of manufacturing for a medium size concern. Small city. 130 employees. Refer File No. 352.

ENGINEERS — Electrical plant, production supervisor, sales, product and heating, ventilating and air conditioning. Large steel company. Midwest. Refer File No. 353.

CERAMIC — Latin America refractory. Latin American citizen, 5 to 10 years out of school. Refer File No. 354.

ENGINEERS — E.E.; M.E.; Chem.; C.E.; Ch.E.; Comp. Sc. Experienced and non-experienced. West coast and midwest locations. Refer Files No. 355 to 360.

ENGINEERS — Ch.E.; E.E.; M.E.; C.E. and Chem. Manufacturers of plastics,

synthetic resins, textile fibers, pharmaceuticals and chemicals, eastern U.S. locations. Refer Files No. 361 to 365.

ENGINEERS — Mining and geologists. To fill vacancies in company's Wyoming operation. Refer Files No. 366 to 367.

MET. E. — Five years experience in industry. Manufacturers component parts such as aircraft fuel and booster pumps, etc. Refer File No. 368.

ENGINEER — Ass't Chief Industrial. Color T.V. assembly. Missouri location. Experience in electronic assembly, supervising time study, etc. Refer File No. 369.

M.E. & E.E. — Interested in the commercial and industrial building fields. St. Louis based company. Refer Files 370-371.

ENGINEERS — Ch.E.; Chem.; M.E.; C.E.; E.E.; Met.; Bus. Adm. Large Oil company and subsidiaries. Midwest locations. Both experienced and non-experienced. Refer Files No. 372 thru 378.

ENGINEERS — M.E. and E.E. Airline. Experienced in aircraft design. Knowledge of engineering and maintenance practices. Refer Files No. 379-380.

CHEM. — Research in inorganic lab. Should have experience with atomic absorption. St. Louis location. Refer File No. 381.

RESEARCH — Group leader-Analytical chemistry and polymer scientist. Midwest. Refer File No. 390.

ZINC PLANT — Technical assistant to manager. Met or Ch.E. Eight years experience. Refer File No. 391-392.

ENGINEER — Minerals beneficiation for research and process development. Prefer experience in flotation. West coast. Refer File No. 393.

ENGINEERS — E.E.; Met.; Ch.E.; M.E.; Adm. Large manufacturer electronic products and electrical contractors. Openings throughout the country. Refer Files No. 394 thru 401.

CERAMIC — Ceramic-Metals Process and Materials Engineers. Experienced. Central laboratory division. North Central U.S. Refer Files No. 402-403.

METALLURGICAL — Research laboratory. Also service engineer. Chicago area. Refer File No. 404.

M.E. — Manufacturer graphic arts equipment. Product and design engineers also product engineering manager. Experienced. Refer File No. 405.

Ch.E.-CHEM.-MINING — Area managers. West coast, midwest and east. Technical sales experience required. Refer Files No. 406 thru 408.

SALES-M.E.; MET.; C.E.; — Mining. Heavy equipment marketing. Refer Files No. 409 thru 414.

Ch.E. — Small inorganic chemical plant in St. Louis area. Up to 6 years experience. Refer File No. 428.

POLLUTION — Abatement. Minimum 5 years industrial or research experience with water. 0 to 5 years air pollution abatement. In the south. Refer File No. 431-432.

M.E. — Section Head — Advanced Design. 8 years experience in heavy precision manufacturing. Good salary. Midwest. Refer File No. 433.

PROCESS ENGINEER — Rural location. Gypsum plant and mine. Midwest. Refer File No. 434.

CERAMIC — World's largest manufacturer of artificial teeth, porcelain and plastic. Product development, production techniques. Refer File No. 435.

SALES ENGINEER — Leading manufacturer of molded cones, spiders, whizzers and other loudspeaker components. Chicago area. Refer File No. 440.

ASS'T CITY ENGINEER — City in Iowa. Refer File No. 450.

BIRTHS

Mr. and Mrs. Kenneth R. Cox '60, now have three children in their family with arrival of Tomas Edward July 23, 1969. Nancy is 5 years old and Michele is 22 months. Kenneth is a mine foreman for New Jersey Zinc Company, Center Valley, Pa.

Mr. and Mrs. Edwin K. Fox '66 advised us that Cindy Kay arrived July 29, 1969.

She has a brother. Edwin is with Kenneth Balk & Associates, consulting engineers, 8600 Delmar, St. Louis, Mo. and their address is 7319 Terri Robyn Drive.

Mr. and Mrs. Colin MacCrimble '63, are parents of Cameron Anne, born July 8, 1969. She has an older brother, James, age 4 and an older sister, Robin, 2½. Colin is assistant plant manager and chief metallurgical engineer for American Nickeloid Company, Walnutport, Pa. Their residence address is 1067 Pine Tree Drive, Slatington, Pa.

Mr. and Mrs. R. O. Nations '68, 308 Lorimier, Apt. 309, Cape Girardeau, Missouri, have a daughter, Analee, born February 1, 1969. The new father is with Charmin Paper Products.

Mr. and Mrs. Alan S. Harper '64 welcomed Cynthia Sue, on August 1, 1969, and she was the third to receive greetings at the Harpers. They live in Overland Park, Kansas, 8705 W. 97th Street. Alan is a structural engineer with Black & Veath, consulting engineers.

Mr. and Mrs. Gerald W. Bersett '65, tallied son number three, September 2, 1969. He was named Steven Matthew. Gerry is production superintendent at Somers Thinstrip, a subsidiary of Olin Corporation, Waterbury, Connecticut. Their address is 300 Taylor Ave., Cheshire.

Mr. and Mrs. Nicholas J. Alonge '65, also have three children upon the arrival of Anthony Roger, June 1, 1969. Kathy is 4 years old and Nick, Jr. is 3. Nick, Sr. is with Chevrolet Gear and Axle in Detroit, Michigan, and they reside in Madison Heights, 1227 E. Barrett.

Mr. and Mrs. Richard A. Okenfuss '58 have their third son, Daniel Edward, born June 27, 1969. The father, a chemical engineer for Proctor & Gamble Company, spent the month of May in Mateo, Spain, assisting in starting a new plant. His assignment is in the International Division in Cincinnati, Ohio.

Mr. and Mrs. Stephen N. Pender '68, welcomed Stephanie Dawn, August 21,

1969. They reside on Route 2, Columbia, Missouri. Stephen is a graduate student at U. of Mo. - Columbia.

Mr. and Mrs. Gerald L. Sidebottom '68 began their family upon the arrival of Christine Lee, September 15, 1969. They live in Kansas City, Missouri, 7908 E. 117th St. Terrace, and Gerald is employed as an engineer with Burns & McDonnell Engineering Co.

Mr. and Mrs. Charles Thresher, 1928 Robin Road, North Augusta, South Carolina, increased their family August 11, 1969. Her name is Victoria I. Charles is with the Electric Heat Division of Federal Pacific Electric as a design engineer.

Terry Carlson '66 now heads a family of four. Kelly arrived February 23, 1969. She has a brother Kevin. Terry is with Booz-Allen Applied Research, Columbus, Georgia. Their address is 4043 Country-side Drive.

Mr. and Mrs. Peter H.F. Malsch '62, announce the arrival of an adopted daughter, Jennifer Lynne, September 3, 1969. Her father is a project manager with Weyerhaeuser Co., Tacoma, Washington. Her mother is the former Marilyn James, of Rolla. They live at 30201 27th Avenue, South, Federal Way, Washington.

Mr. and Mrs. John W. Neagle '67, 1008 Texas, Joplin, Missouri, are happy to announce the arrival of John David, October 31, 1969. He joins a 3-year-old sister, Cindy. John is an engineer with Empire District Electric Company.

Mr. and Mrs. Joseph R. Reichert '59, have their second daughter, Sheila Marie, born October 8, 1969. Ann Marie is two years old. Joseph is Chief, Solid Wastes, Refuse Division, Public Works Department, City of Kansas City, Missouri. Their address is 7312 Charlotte.

Mr. and Mrs. Douglas Munsel '60, more evenly balanced their family when Michael Gerard arrived November 12, 1969. The total now is 3 girls and 2 boys. Douglas is with McDonnell-Douglas Corp., St. Louis, Missouri, as a senior design engineer. Their residence is at 221 La Motte Lane, Ferguson, Mo.

Mr. and Mrs. Carl Gales '64 advise the arrival of their second daughter, Donya Michelle, October 2, 1969. They are living in Ft. Smith, Arkansas, 1708 Harvard, where Carl is project engineer with Mickle-Bell Associates.

Mr. and Mrs. George J. Lukowitz '60, 1639 Cedar Street, Grafton, Wisconsin, have a daughter, Suzette Ruth, born July 15, 1969. George is chief metallurgist, Burnside Steel Foundry Company, Chicago.

Mr. and Mrs. Thomas J. Pokrefke, Jr. '68, are proud of Jacquelin Marie, who arrived September 14, 1969, their first. Pvt. Pokrefke, USMC, is stationed at San Diego, California.

Mr. and Mrs. Lawrence J. Reinsch, Jr. '66, announce the arrival of Christy Joe, on October 15, 1969. Her brother, Kevin, is 3 years old. Larry is project manager for Harris-Angsten Construction Company, Oak Lawn, Illinois. Their residence is at 59 Waverly Ave., Clarendon Hills, Ill.

MARRIAGES

Hall-Johnson

Miss Jane Hall '41 and Benjamin H. Johnson were married October 11, 1969. The bride is a staff architect with Fruce & Associates, 1706 Olive Street, St. Louis, Mo. The groom recently opened his own office of industrial design services. Their residence is at 66631 Clayton Avenue.

Wilson-Roch

Patrick J. Wilson '69, and Miss Jacqueline M. Roch, of St. Louis, Mo., were married August 23, 1969. Patrick is a scientific programmer at McDonnell-Douglas Aircraft and the newly-weds are residing at 3735 Cambridge, Apt. 16, St. Louis.

Hinchcliff-Klein

Sammie Joe Hinchcliff '68 and Tao Ann Klein were married June 28, 1969 at Texarkana, Arkansas. Sammie is employed by du Pont in Victoria, Texas and their address there is Apt. 12, Briarcliff West.

Schanbacher-McCord

William Schanbacher '63 and Sharon Elizabeth McCord, of Cedar Rapids, Iowa, were married on October 5, 1969. Their new residence address is 212 Crandall Drive, N.E. Willis is a systems design engineer at Collins Radio.

Posch-Bates

Raymond J. Posch '69 and Miss Martha Bates, of Kansas City, Missouri, were married November 29, 1969, and reside at 306 N.E. 64th St., Gladstone, Missouri. Raymond is operations Research Scientist, Booz Allen Applied Research, Ft. Leavenworth, Kansas.

DEATHS

James H. Underwood

James H. Underwood, age 91, a former member of the faculty of the Department of Mechanical Engineering, died October 28, 1969. He was a native of England and came to Rolla in 1919. He is survived by a daughter, Mrs. Eva Wright, wife of Wilfred S. Wright '24, Medford, Oregon.

Robert L. Stone '34

Dr. Robert L. Stone '34, died October 10, 1969. The retired technical director of R. L. Stone Co., Division of Tracor, Inc., made his home in Austin, Texas. Dr. Stone's varied career included: Instructor, North Carolina State College, 1936-39; plant manager, Hale Manufacturing Co., 1939-41; Assistant Professor, New York State College, 1941; acting head of a department, North Carolina State 1942-45; civilian consultant to the Office of Scientific Research and Development, 1944-46; Director of Research, Stupakoff Ceramic Mfg. Co., 1945-46; technical secretary, American Ceramic Society, 1946-47; Instructor Engineering Experiment Station, Ohio State U., 1947-51; head of Department of Ceramic Engineering, U. of Texas, 1951-59. In 1959, he founded and was president of the Robert L. Stone Co. which specialized in the manufacture of DTA and TGA apparatus. In 1966 his firm became a division of Tracor. Surviving are his widow, Addie May, a son Arthur, and a daughter, Barbara.

George P. Day '51

George P. Day '51. The alumni office was advised of his death in September 1969. He was residing in Tulsa, Oklahoma at the time of his death.

Robert J. DeHekker '52

Robert J. DeHekker '52 died November 17, 1969, in St. Louis, Missouri. His death was caused by cancer and he died six weeks after the diagnosis.

George M. Cauble '68

George Marshall Cauble '68, age 23, drowned December 8, 1969 in a hunting accident near Kaufmann, Texas. He was employed as a mechanical engineer by Texas Instrument Company. Surviving are his widow, the former Debbie Donoho, his parents Mr. and Mrs. George A. Cauble, Cape Girardeau, Mo., two sisters and grandparents, all of Cape Girardeau.

Alumni Personals

1917

Wilson V. Bayha, 515 Tiffen, Ferguson, Missouri, has reached his 80th birthday. He has been retired several years.

1922

Daniel E. Huffman, Jr. is owner and manager of Sedona T.V. Sales and Service. He started T.V. work as a hobby before retiring in 1966 and now his business is ten years old. His address is 826 E. Belmont Ave., Phoenix, Arizona.

1924

Wilfred Wright was an alumni office visitor in October. Mr. Wright is now retired after many years as an engineer with governmental agencies. His address is 2427 Country Club, Medford, Oregon.

1931

E. Warren Heilig is vice president of Adam K. Grafe Associates, Inc., 1630 N. Broadway, Lexington, Kentucky. He is also president of the Evansville Baseball Club, AAA, American Association, Bosse Field, Evansville, Indiana. His mailing address is Box 87, Hoyleton, Illinois.

1934

George A. Hale is president, Marine Inspection Engineers, Inc., 9933 Lawler

Avenue, Skokie, Illinois. He writes, "Why do the freshmen look so much younger now than they did in 1930?"

1935

James J. Murphy, President of the Murphy Company, Mechanical Contractors and Engineers, has been elected to membership on the Board of Directors of Central West End Bank, St. Louis, Mo. Jim is President of the MSM Alumni Association, U. of Mo. - Rolla and is also director of a number of corporations and active in professional engineering corporations. His business address is 4376 Olive Street, St. Louis.

1936

Robert T. Chapman is now senior geologist with Duval Corporation in Tucson, Arizona, where they are developing their Sierrita open pit copper mine. His address is 1961 Shalimar Way. He formerly was in Denver, Colorado.

1940

Clarence "Pete" C. Palmer, president of R.W. Booker & Associates, Inc., has been commissioned a Kentucky Colonel by the Honorable Louis B. Nunn, Governor of Kentucky. Colonel Palmer was honored for "outstanding service as a consulting engineer and planner who has enriched the community life of the citizens of Hazard and other Kentucky cities." R.W. Booker and Associates, Inc., is a St. Louis based firm.

John F. Reed has been named President, Canrad Precision Industries, Inc., 630 Fifth Avenue, New York, New York. Mr. Reed, who most recently was President of Hercules Galion Products, Inc., had during the prior 23 years been associated successively with Manning, Maxwell & Moore, Inc., and with the Hupp Corporation, ultimately rising to President of both organizations. He is 51 years old. In making the announcement of his successor, Dr. Boris Pregel said, "Having advised our shareholders at the recent Annual Meeting of my intention to step down as President, I am delighted to have found such an eminently qualified executive as Mr. Reed. Under his guidance, the company can achieve a commercial and marketing success matching that

which it has already attained in the development of significant new products.”



John F. Reed

1941

Dr. William C. Alsmeyer, Vice President, Leo A. Daly Company, San Francisco, California, returned to the campus in December and was initiated as an honor member by Chi Epsilon, national civil engineering honor fraternity. The Alsmeyers live at 814 Delaware, No. 503, San Mateo.

James R. Roux, 960 Burney Lane, Cincinnati, Ohio, has represented Tool Steel Gear and Pinion Company for 22 years. He moved to Cincinnati last year as the field sales manager and is now assistant vice president in charge of sales.

1942

William L. Pollock was honored recently and received a 25-Year Service Award from the Missouri State Highway Department. His first assignment was as Plans Draftsman at the Sikeston Office. In 1946, he went to the field as an inspector with the Division of Construction. Then became resident engineer and in 1956 he returned to Sikeston as District Construction Engineer. In 1964, he was transferred to Kansas City, District 4, in the same capacity. A year later he was moved to Jefferson City as Field Liaison Engineer, Structures, in the Division of Construction and in June this year he became Engineer of Contract Controls in the same division.

1943

Franklin L. McCutchen has been appointed Director of Plant Engineering,

Telcom, Inc. He has been with Telcom three years and has had more than 30 years experience in the telecommunication field. His address is 3901 Prosperity Avenue, Fairfax, Virginia.

Don J. Coolidge, Kaloa Building, 1675 “C” Street, Anchorage, Alaska, who has his own consulting business, writes: “Employment opportunity: Location, Alaska. Snow, ice, sub-zero temperatures, igloos, dog-sleds and terribly high cost-of-living. Engineers who love wilderness and out-of-doors living; who will think in terms of the total environment and not subdue ALL of nature for man’s benefit.”

Jack E. Fleischli, former Vice President-Sales and co-founder of Bay City Bearing Co., sold his interest in the firm and became President of Capital Oil & Grease Co., Inc. His new firm manufactures industrial lubricants and markets their products to most of the major industries in the west. Plans are currently being made to extend the marketing of these products in all major cities in the United States. The Fleischlis have three children. Two are attending the University of California, Santa Barbara and Ginger is in the third grade. Their address is 2210 Waterfront Drive, Corona del Mar, California.

Lewis E. Rosser has been appointed Manager, Non-ferrous Sales, Hanna Mining Company. Hanna, a large iron ore mining company, is the only United States producer of nickel. Rosser was with the Republic Steel Company during World War II, then served two years in the U.S. Army. In 1948, he joined Keokuk Electro-Metals Company and was plant manager when he became superintendent of Hanna’s nickel smelter at Riddle, Oregon, in 1954. In 1961 he was transferred to the Cleveland headquarters as nickel sales representative. The Rossers have two children and reside at 21122 Kenwood Avenue, Rocky River, Ohio.

Claude E. Davis has been promoted from marketing manager, sheet rubber and special accounts to manager, government accounts industrial products sales, Goodyear Tire and Rubber Co. His Ak-

ron, Ohio address is 195 N. Pershing Avenue.

Colonel Roy L. Kackley, Jr. is one of 224 senior officers and civilians currently attending the U.S. Army War College at Carlisle Barrack, Pa. The 10-month course, which will end in June 1970, is



Col. Roy L. Kackley, Jr.

designed to increase the student’s analytical ability and knowledge and to provide the United States with prepared military leaders to help solve the future complex problems of peace and war. Colonel Kackley entered the Army in 1943 and was last assigned to the U.S. Army Engineer division, Huntsville, Alabama. He holds three awards of the Army Commendation Medal, Legion of Merit, Bronze Star Medal for herosim and the Air Medal. He and his wife, Adeline are residing in Carlisle, Pa.

1944

O. Morris Sievert has been appointed Executive Vice President of the Solar



O. Morris Sievert

Division of International Harvester Company, San Diego, California. He assumes this new post after three and one-half

MSM Alumnus

M S M A L U M N I P E R S O N A L S

years as the IH Division's Vice President of Turbomachinery Sales. He will assist the President in the overall management of the Division and be responsible for both the product management and manufacturing functions. He joined Solar in 1957 in a turbomachinery sales management post from a sales management position with the Elliott Company. His company's address is 2200 Pacific Highway, San Diego, California.

Robert O. Dietz is Director, of Von Kakman Institute in Genessee, Belgium. He finds the directing and teaching in the international research and training institute is interesting and enjoyable. His address is in care of the U.S. Embassy, APO, New York, N.Y. 09667.

1 9 4 6

William A. Rutledge was the recipient of the 1969 Hancock Place Distinguished Alumnus Award, Hancock High School, Lemay, Missouri. After graduation at Rolla he joined General Electric Company and his career has been interrupted only two years when he was with the U.S. Army, 1948-50. He held various engineering, planning and marketing assignments until 1962 when he was named manager of engineering. In 1967 he was appointed general manager of specialty motors which includes plants in Ft. Wayne, Ind., Jonesboro, Ark., and Tell City, Ind. He is active in civic affairs in Ft. Wayne, Indiana. Their address there is 2528 Silverleaf Drive.

1 9 4 7

Gilbert J. Carafiol has opened his own consulting firm in St. Louis, Missouri. His office address is 706 Chestnut Street. The firm is specializing in mechanical and electrical projects.

Dick Cole was the subject of a feature article that appeared in the "Reynolds Review," July-August issue, the house organ of Reynolds Metals Company. It relates how Dick became affiliated with Reynolds because he wouldn't take "no" for an answer. His first job was at the Longview plant as a metallurgist. He became general foreman at the finished

plant. Then his career took him to installations at Lesterhill, Massena, Bermuda, India, Messena again, Jones Mills, back to Lesterhill and finally to his present position as Reduction Division Manager in Richmond, Virginia.

His mother and early farm life he credits for his educational drive and ultimate success with Reynolds. The post-depression farm economy and his mother, an ex-school teacher impressed upon him the value of an education. Beginning at South Dakota School of Mines, moving to California, working for an aircraft company, serving a hitch in the Navy, meeting his wife-to-be, he entered the Missouri School of Mines, and earned his B.S. degree in 1947.

He was married, worked a few years and then continued his formal education at M.I.T. ending with a M.S. degree in metallurgical engineering. He has run the gamut of jobs with Reynolds and he feels fortunate to work at Reynolds, "We have good people wherever we go," he says. "The reduction Division has sort of grown up together. When I joined, we had four plants. We've added three more and beefed up the capacity at existing plants. Plant communications are better and the overall system of information distribution has improved tremendously. And" he concludes, "there are better years ahead."

Chester M. Pomeroy reports he and his wife, Mitzi, celebrated their 25th wedding anniversary all year during 1969. Chester is with Du Pont Company in market research. He is also Assistant Rabban, Nar Temple A.A.O.N.M.S., Wilmington, Delaware. Their residence address is 15 N. Cliffe Drive.

1 9 4 8

Donald J. Mathews, 2917 Portugal Drive, Lemay, Missouri, heads Sales Development, Alton Packaging Company, Highland, Illinois.

James W. Billard has been named vice-president of production by Union Carbide Petroleum. He was formerly manager of production for the American International Oil Co. He also has been associated with Iran Pan American Oil Co., and Texas Petroleum Co. His headquarters

address is 270 Park Avenue, New York, N.Y., and he resides at 18 Burning Tree Road, Greenwich, Conn.

Harold G. Moe, P.O. Box 502, Decca, East Pakistan, writes, "We have had a riotous time in Decca the past year without any outhouse burning. At homecoming the Decca chapter met at my house and drank a beer." Harold is a project engineer for Camp, Dresser & McKee in Pakistan. His wife and three children are with him.

1 9 4 9

Nick Holloway, Jr. has been made President of General Manager of the Vick Manufacturing Division of Richardson-Merrell, Inc. He has been with the diversified drug firm since 1955. Prior to



Nick Holloway, Jr.

his recent promotion, Mr. Holloway was vice president and assistant general manager of the division which manufactures the Vicks colds products, Lavioris mouthwash, Clearasil ointment and the Clark-Cleveland denture products. The division has its headquarters in Hatboro, Pa. Mr. Holloway is a chemical engineer. He is a native of Arkansas and he and his wife and two children live in Meadowbrook, Pa.

1 9 5 0

W.E. Bach, Jr., is general sales manager, Alcoa of Australia, Ltd., 155 Queen Street, Melbourne, Australia.

Robert C. Wood, geophysicist with Oasis Oil Co., of Libya, Inc., states that he expects to return to the United States

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A Alumnus



on vacation this summer and visit old friends in the midwest. His address is P.O. Box 395, Tripoli, Libya.

Donald Hockett has been named manufacturing engineering manager for the electronics and space division of Emerson Electric Company. He has been with Emerson since 1951. His address is 3011 Wintergreen Drive, Florissant, Mo.

R. Lee Aston advises that Aston Engineering Service is southeastern sales and service representative for jet flame drills and channeller for Browning Engineering Corporation. R. Lee Aston, president of Aston Quarries, has opened a new granite dimension stone quarry at Elberton, Georgia, Aston & Dunn Quarry. He is president of this corporation as well as Buena Black Granite Corporation. His mailing address is Box 34, Elberton.

Dr. Robert F. Burke, retired as Colonel, USAF, December 1969. He is staff scientist, Data Corporation, Dayton, Ohio. His address is 7125 Mandrake Drive.

1951

Donald W. Canady is patent counsel for The Signal Companies, Inc., Los Angeles, California. After he finished law school at George Washington University he was employed for 11½ years by Atlantic Richfield Company, in Anaheim, California, and was transferred to Philadelphia, Pa., in 1969. After six months in Philadelphia, he accepted the position of patent counsel at Signal and returned to Los Angeles. He is now residing in Anaheim, 1213 W. Park Avenue, with his wife, Pat, and five children.

1952

J.R. Sweeney is Manager-Project Engineering, Inmont Corporation, Hawthorne, N.J. He joined Inmont (formerly Interchemical Corp.) in May 1966 as project engineer with the Presstite Division becoming corporate senior project engineer in June 1968 upon establishment of Corporate Engineering Department. He was promoted to his present position in June 1969. His address is 693 Vance Avenue, Wycoff, N.J.

Robert L. Hirsch has been appointed

to the newly-created post of Manager of the AC Adjustable Speed Drives Operation, a division of General Electric Company. He has been serving as Manager of the Instrumentation and Control Service Business Section of the Service Shops De-



Robert L. Hirsch

partment in Schenectady since 1967. He joined G.E. in 1954 as a member of its Test Engineering Program with several assignments. In 1955, he was transferred to the marketing section in Bloomington's General Purpose Control Department.

Three years later, he joined the Industrial Sales Division in Cincinnati, as a field Sales Engineer. In 1964, he became Manager of Measurements and Control Systems for the Service Shops Department. In 1966, he became Manager of Retrofit Systems for SSD. He and his wife, Phyllis, and five children live at 1005 Seminole Road, Scotia, N.Y.

Earl E. Pape was transferred by the Illinois Power Company back to their headquarters in Decatur as supervisor of gas construction.

Lee Bilheimer is now assistant to the vice president, mining, Brameda Resources Limited, 1177 West Hasting St., Vancouver, British Columbia. He formerly was with Placer Development Limited.

1954

Lt. Col. Rayburn L. Williamson following completion of a tour of Vietnam has assumed command of the 16th Armoured Engineer Battalion, 1st Armored Division, Ft. Hood, Texas. His address is 6730 Rose Street.

1956

Philip F. Teodori was recently assigned

to Bache & Company's Camden, New Jersey office, as a stock broker and commodities specialist. His address is 32 Charters Oak, Marlton, N.J.

Roger Berkbigler is Manager of Engineering-Retaining Rings, Ramsey Corporation. In this capacity Roger handles all phases of application and product engineering for retaining rings. He joined Ramsey as a Development Engineer-Teflon Seals, in February 1964. In September 1964, he was moved to retaining ring engineering, and in January 1968, he became Project Engineer. He is a registered engineer in the State of Missouri. He has a Master's degree in automotive engineering from Chrysler Engineering Institute, Detroit. He is a member of Pi Tau Sigma and Tau Beta Pi and is active in the Society of Automotive Engineers and presently Vice Chairman Student Activities, St. Louis Section. He and his wife Betty, and their six children reside at 5 Tree Crest, Fenton, Mo.

1957

James R. Graham has been named division traffic superintendent for the Springfield division of Southwestern Bell Telephone Co. He was formerly traffic supervisor in St. Louis, Mo.

1958

James H. Garrett is beginning his seventh year in Libya with Esso Standard Libya, Inc. He is Head, Production Engineering Section. He was elected president of Libyan Association of Petroleum Technologists (AIME) for the year 1969. The Garretts have three children. Their mailing address is in care of Esso, Box 385, Tripoli, Libya.

Harvey D. Shell has been appointed Acting Executive Secretary of the Missouri Air Conservation Commission. He will continue to serve in his former position as the agency's chief of technical services. His headquarters will be in Jefferson City.

Colonel Niels H. Lund is now serving in Germany as The Director of Engineering and Construction for Headquarters, U.S. Air Force, Europe. Hq, USAFE (DEE), APO New York 09633.

1959

Russell A. Herring was recently promoted by the Shell Chemical Company to project engineer with the firm's main office, engineering, in Houston, Texas. He formerly was an engineering supervisor in the firm's Houston Plant. He has been with Shell since 1960. He and his wife, Yvonne, and two children live at 2411 Huckleberry, Pasadena, Texas.

Robert R. Wright is department head at the Water and Waste School, Neosho, Missouri. They live at 914 South Main, Carthage, Missouri.

George H. Morgan is with the Excel Corporation in value analysis. He is a commissioner on the South Bend Public Housing Authority. The Morgans with their three children reside at 1217 Diamond Avenue.

Gary B. Chullino has been promoted to district construction engineer, Missouri State Highway Department, Sikeston, Missouri. He was assistant district construction engineer prior to his promotion. He joined the highway department in 1960.

R.F. Hughes has been transferred by Pittsburgh Plate Glass Industries to their Puerto Rican project which is presently



R. F. Hughes

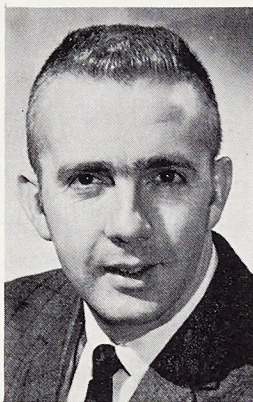
under construction. Hughes joined PPG in 1959 as a chemical engineer at Corpus Christi. He transferred to Lake Charles, Louisiana, in 1967, and after spending several months at the plant received a temporary assignment on PPG's Asahi Penn project in Japan. He returned in 1968 and was assigned as general foreman of VC-EC-HCI units, the position

he held prior to his present assignment. Mrs. Hughes is the former Margaret Parker of Ironton, Missouri. They are parents of one daughter.

1960

John L. Ratliff received his Ph.D. degree in Metallurgical Engineering at Ohio State University and is now assistant professor in the Department of Structures, Materials and Fluids, College of Engineering, University of South Florida, Tampa. His address is 10314 Carrollwood Court, Tampa.

R. Neil Henkel has been promoted to Manager, Applications Services at the U.S. Industrial Chemical Co., Polymer Service Laboratories, Tuscola, Ill. The



R. Neil Henkel

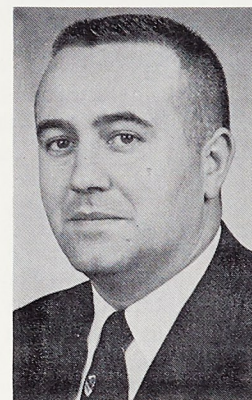
laboratories are responsible for product and process development, customer services, applications development, and quality control monitoring for polyolefin products. He joined USI in 1960 as a customer service engineer. He was named coatings group leader in 1966 and section leader in the applications services area earlier this year. He and his wife, Marilyn and two children live at 417 Cedar Lane, Arthur, Ill.

John P. Hager is now associate professor in the Department of Metallurgical Engineering at the Colorado School of Mines, Golden.

George H. Graves has been in process engineering and manufacturing development at Guide Lamp Division of General Motors since 1960. He started as a college graduate-in-training. He was promoted to senior process engineer this year. He is a native of Rolla, Mo., served as a 2nd Lt.

in the Army Chemical Corps and recently was discharged a Captain in the Army Reserve. Mrs. Graves is the former Mary McClellan, of Rolla, and they have two children, George, Jr., and Laura Anna. George is a member of Alpha Chi Sigma, the American Institute of Chemical Engineers and is a registered professional engineer in Indiana. Their address is 3905 Lee Street, Anderson, Indiana.

Lawrence A. Boston has joined Cities Service Oil Company as senior technical Advisor in the general engineering division. Boston, who was with Chevron Oil Company, New Orleans, La., until joining



Lawrence A. Boston

CITGO has had extensive experience in the design, fabrication and installation of offshore producing platforms. He also has done both structural and foundation analyses of platforms with emphasis on the development of computerized techniques for conducting tests. He is in the Tulsa, Oklahoma office.

Mike Bertorello has been transferred, with his wife, Mary, and four children, Mathew, Michele, Melissa and Maria, from Libya to Venezuela. In Libya he was regional engineer for Dowell Schlumberger and now he is manager, Eastern Venezuela, for his company. His address is in care of Dowell Schlumberger (Western) S.A., Apartado 436, El Tigre-Edo, Anzoategui.

James Painter will complete 10 years with McDonnell-Douglas in February 1970. He recently developed a 210 ATM electric arc air heater for simulation of high performance missile reentry. He is a research scientist. His address is Route 1, Box 12, Winfield, Missouri.

Chester W. Sturgeon has been promoted to senior engineer/manager of Intermediate Computer Engineering at International Business Machines' Electronics Systems Center in Owego, New York. He joined IBM in 1960 as a junior engineer. In 1961, he became associate engineer. In 1962, he was promoted to senior associate engineer, staff engineer in 1963, project engineer in 1965, development engineer/manager of Maintainability and Diagnostic Engineering in 1966 and manager of CP Computer Engineering in 1968. He is a member of Eta Kappa Nu and Tau Beta Pi honorary engineering fraternities. The Sturgeons live at 150 Frederick Drive, Apalachin.

Buddy J. Austin will be moving to Lafayette, Indiana, where he will be establishing an industrial research laboratory in the Purdue Industrial Park.

1961

Dr. Echol E. Cook completed his requirements for a Ph.D. degree at Oklahoma State University, in August 1969, and he is an assistant professor in Civil Engineering at OSU.

Captain Nelson H. Noell is attending the Air University's Squadron Officer School at Maxwell AFB, Alabama. This 14-week course is in communicative skills, leadership, international relations, and responsibilities that prepare junior officers for command-staff duties.

1962

Richard O. Rouse has been transferred and promoted from engineer for special projects for Truax-Traer Division of Consolidation Coal Company to general superintendent of the Shoemaker Mine of the Ohio Valley Division of Consol. He has been superintendent of the company's mine at Coffeen, Illinois. He is experienced in mine rescue team and first aid work and has worked in accident prevention with the examiner's school for the State of Illinois and the U.S. Bureau of Mines.

Major Lee A. Waltrip, recently promoted to his present rank, is on the ROTC faculty at Iowa State University, Ames.

James Zychinski has been promoted to district engineer by the Union Electric Company, St. Louis, Mo.

William D. Neel is now sales engineer for Marco Sales Inc., the Carrier Air Conditioning Distributor and his territory is Southern Illinois, Southeast and Central Missouri. His address is 11875 Sheffield, Florissant, Mo.

Lindell H. Elfrink, civil engineer, Department of Interior, Bureau of Reclamation, Huron, South Dakota, is now a Registered Professional Engineer in South Dakota.

1963

Dr. James J. Baremore is presently doing a tour of duty in Vietnam. He is scheduled to be released from active duty next August. He holds the rank of Captain and his address is 487-44-7585, STRATCOM, Reg. Comm. Gr. (V), P & O Div. Networks Br. APO San Francisco, Ca. 96243. He would appreciate hearing from any of his friends.

J.A. Denzel is now plant supervisor for Monsanto's Catox prototype plant in Portland, Pa. This is a demonstration plant for the removal of particulate matter and SO₂ from power plant flue gas. He is a senior design engineer at Monsanto Environchem Systems, Inc., St. Louis, Mo. His residence address is 9431 Mary Glen.

N.M. Naiknimbalkar, his wife, Magdalena and children, Asha and Angeli visited India for a month this year. He is an exploration geologist for United Nuclear-Homestake Partners, Grants, New Mexico. His mailing address is P.O. Box 631.

Fred D. Clippard, Jr. was awarded a Doctor of Philosophy degree at Michigan State University, December 13th. He is an Assistant Professor of Chemistry at Penn. State University. Dr. Clippard is a member of the American Chemical Society, American Physical Society, the American Association for the Advancement of Science, Tau Beta Pi, Phi Kappa Phi and Society of Sigma Xi. Mrs. Clippard, Dr. Patty Hall Clippard, is the daughter of Professor Keith Hall, of Ann Arbor. The

Clippards' address is 508 E. Park Avenue, Altoona, Pa.

1964

Charles Ernest Price is a recent addition to the staff of the Technology Department in the Laboratory Division, Union Carbide, Paducah, Kentucky. He received his M.S. degree in Mechanical Engineering, in 1969. Charles, and his wife Judy, are parents of eight children. The latest additions were twins, Jennifer Jean and Clinton Ernest.

Ike H. Williams has been named Product Engineering Manager for the Paragould, Arkansas operations of the Monroe Auto Equipment Company. Since



Ike H. Williams

graduation he has been employed by Emerson Electrics in Paragould. His address is Route 2.

1965

Jack Goodman is a graduate student working toward a Ph.D. degree in Aerospace Engineering at State University of New York at Buffalo. He lives in Williamsville, N.Y., 72A Williamsburg Square.

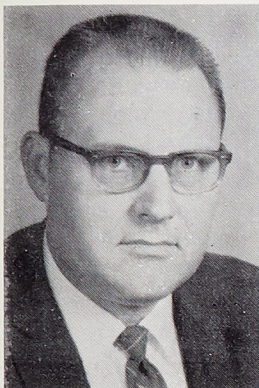
Wayne Huckabee was released from active duty with the U.S. Army September 20th, as an E-5. He served at the U.S. Army Cold Region Research in their engineering laboratory at Hanover, New Hampshire as a civil engineer assistant. Wayne and Miss Janet Calsin, of Lorraine, Ohio, were married June 14, 1969. The groom is a student in industrial administration at Purdue University.

Joe A. Hohman completed his M.S. degree at Georgia Tech., and is now project manager with Allen & O'Hara, Inc., Mem-

phis, Tennessee. The company is primarily general building contractors but they also do development and management for hotels and college dormitories. His address is 2980 Barron Ave., No. 18, Memphis.

1966

William S. Williams has been appointed Manager of Production at Pittsburgh



William S. Williams

Cornings' Port Alleghany, Pennsylvania plant. Mr. Williams had been a project Engineer in the Process Development Department.

1967

1st Lt. Wayne H. Stolte was recently promoted to that rank. He is an electrical engineer and assigned to a unit of the Air Force Logistics Command at Kelly AFB, Texas.

2nd Lt. Thomas J. Fritzingler has been awarded U.S. Air Force silver pilot wings



2nd Lt Thomas J. Fritzingler

upon graduation with honors at Webb AFB, Texas. Following specialized aircrew training at Castle AFB, California,

December 1969

will be assigned to Fairchild AFB, Washington, for flying duty on the KC-135 Stratotanker aerial refueling aircraft. He will serve with the 43rd Air Refueling Squadron, a unit of the Strategic Air Command, America's long-range nuclear bomber and missile force.

Ensign Michael R. Eastburn graduated from the Officers Candidate School, Newport, R.I. He reported for duty at the Naval Air Facility, Grand Turk, Turks and Caicos Island, West Indies.

Captain David A. Herold is an aviator in the Corps of Engineers. He expects to return to the U.S. in December and to be assigned to Fort Carson, Colorado, and to fly for the 5th Mech. Division until he is separated from the service in September 1970.

Jimmie L. Fisher is scheduled to go to New York for five months of school on the IBM 360 computer system in January 1970. This will qualify him as an instructor of this system. He is now in the U.S. Air Force at Keesler Air Force Base, Mississippi. His address is 453 Querens Ave., Biloxi.

1st Lt. Jack Hornbuckle has been a helicopter pilot in Vietnam since February 1969. He is with the H & HC, 11th Avn. Bn. (CBT).

2nd Lt. Nixon A. Pendergrass has been assigned to L.G. Hanscom Field for duty



2nd Lt Nixon A. Pendergrass

with a unit of the Air Force Systems Command after receiving his commission at Lackland AFB, Texas.

1968

2nd Lt. Neil S. Smith is beginning instruction at the Special Warfare School, at Ft. Bragg, to be followed by a Vietnamese Language Course at Ft. Bliss, Texas. Thence to Vietnam June 2, 1970. His permanent address is 807 W. Crowder, Trenton, Mo.

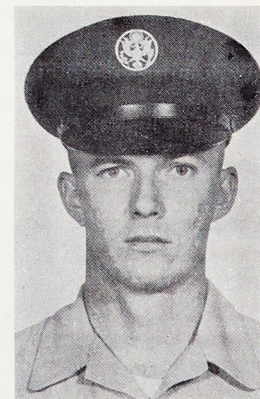
Airman Steven A. Mezines received his first U.S. Air Force duty assignment after



Airman Steven A. Mezines

completing basic training at Lackland AFB, Texas. He is with a unit of the Strategic Air Command at Francis E. Warren AFB, Wyoming for training and duty in the civil engineering structural and pavements field.

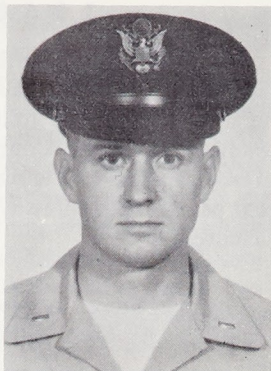
Airman Edward G. McGregor has completed U.S. Air Force basic training at



Airman Edward G. McGregor

Lackland AFB, Texas, and is assigned to Port Hueneme, California, for training in the civil engineering structural and pavements field.

2nd Lt. William A. Wolf was commissioned at Lackland AFB, Texas, and

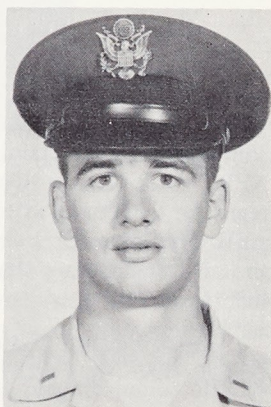


2nd Lt
William
A. Wolf

has been assigned to Mather AFB, California, for navigator training.

2nd Lt. Donald E. Johnstone, USAF, has been assigned to Tinker AFB, Oklahoma, for duty in a unit of the Air Force Logistics Command.

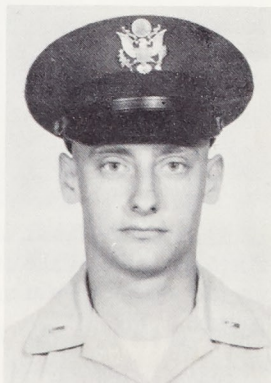
2nd Lt. Gilbert A. Engel, Jr. was commissioned upon graduation from Officer



2nd Lt
Gilbert A.
Engel, Jr.

Training School, Lackland AFB, Texas, and assigned to Tyndall AFB, Florida for training as a weapons controller.

2nd Lt. Steven R. Musterman was commissioned at Lackland AFB, Texas



2nd Lt
Steven R.
Musterman

and assigned to Keesler AFB, Mississippi

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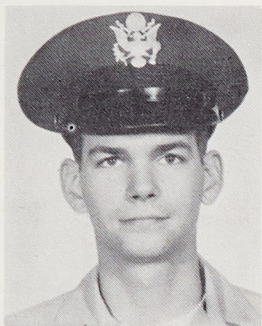
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for training as a communications-electronics officer.

Roger L. Cannady has been commissioned a second lieutenant after graduation from OTS at Lackland AFB, Texas. He is assigned to Craig AFB, Alabama for pilot training.

*2nd Lt
Roger L.
Cannady*



2nd Lt. Michael E. Ferretti, commissioned at Lackland AFB, Texas, has been assigned to Vance AFB, California for pilot training.

*2nd Lt
Michael E.
Ferretti*

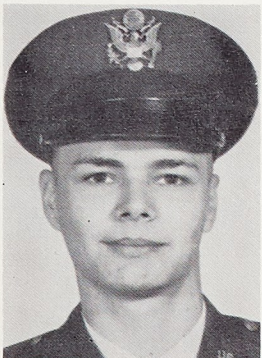


Wayne A. Adams who was commissioned a second lieutenant at Lackland AFB, Texas has been assigned to Webb AFB, Texas, for training as a pilot.

1 9 6 9

2nd Lt. Randall Burns has been assigned to Keesler AFB, Mississippi after receiving his commission at Lackland AFB, Texas.

*2nd Lt
Wayne A.
Adams*



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