



Missouri S&T Magazine, January-February 1954

Miner Alumni Association

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MSM ALUMNUS

Missouri School of Mines and Metallurgy
ROLLA, MO.

VOLUME 28

JANUARY-FEBRUARY :: 1954

NUMBER 1

Assignment: FORMOSA



Dr. H. R. Hanley, '01, long-time Secretary-Treasurer of the MSM Alumni Association, and Professor Emeritus of Metallurgical Engineering left December 22 to organize a department of non-ferrous metallurgy at the University of Taiwan, in Tainan, Formosa. See story on page 9.

Dr. Middlebush Resigns After 19 Years as President of University of Missouri

Dr. Frederick A. Middlebush, for the past nineteen years president of the University of Missouri, is retiring from the presidency on June 30, 1954, and will become president emeritus and director of a new University Endowment Development fund. This announcement was made by Powell B. McHaney, President of the Board of Curators, following a meeting of the Board in St. Louis on January 8th. Dr. Middlebush gave ill health as his reason for retirement.

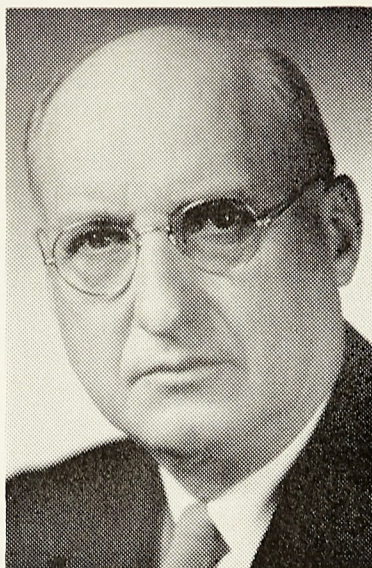
Dr. Middlebush headed the University through perhaps one of the most trying times of its history with the World War and the extreme fluctuations of enrollment and the demands for the services of the University brought about by this conflict. Under his leadership the University has made outstanding progress. MSM in particular has perhaps made the greatest progress of any period in its history under Dr. Middlebush's administration.

Saw Big Growth at MSM

In 1935 the enrollment at the School of Mines stood at 400. It climbed to over 900 by 1944 and then in 1945 with the impact of World War II the enrollment dropped to 250. Three years later in 1948 the enrollment stood at 2709 students. This was followed by a gradual decline as the veteran trainees disappeared from the campus until today the enrollment is 1192 students. All of this fluctuation in enrollment created problems in administration that were critical at times, first in building up the faculty and educational housing space, and second in bringing down the faculty and adjusting the teaching load to the student body. Dr. Middlebush was keenly aware of these problems at all times, and, according to Dean Wilson, gave freely of his time and best judgment in meeting them.

During President Middlebush's administration the old wood-burning converted power plant was torn down and a new and modern power plant, complete in every detail, was erected in its place. The Chemical Engineering building was completed, and is up to

date in every respect both as to equipment and structure. The new Mechanical Engineering building was erected with laboratory facilities and equipment second to none in the Mississippi Valley. The old warehouse building was converted into a modern structure



DR. FREDERICK A. MIDDLEBUSH

and connected with the old Mechanical Engineering building which has been remodeled, giving complete facilities for the Mining Engineering Department. The School mine and plant were also modernized in every respect.

50 Per Cent More Space Added

When the U. S. Bureau of Mines vacated the Experiment Station building, this was rebuilt with 50% more space added and now houses the Metallurgical Engineering and the Ceramic Engineering Departments with the finest of modern facilities for educational purposes. The Department of Mechanics, formerly housed in makeshift facilities about the campus, is now concentrated in the old Metallurgical Engineering building.

Dr. Middlebush has strongly advocated to the legislature the erection of a second wing of the Engineering Laboratories building to house the Department of Electrical Engineering, which is the primary weak spot on the cam-

pus at this time as this department has received no additional space for lectures and laboratories. With the increased enrollment during the years ahead that will bring the school up to approximately the same enrollment as in World War II, the Electrical Engineering space creates now a critical problem. Dr. Middlebush has recognized this and has strongly advocated the completion of the Electrical Engineering wing adjacent to the Mechanical Engineering building.

Now Fully Accredited

Also, under Dr. Middlebush's administration, and with his strong support, all engineering curricula at MSM are now fully accredited by the Engineers Council for Professional Development.

Commenting upon Dr. Middlebush's retirement, Dean Curtis L. Wilson said, "President Middlebush has always been the great and good friend of the School of Mines and Metallurgy. He has labored long and hard for this school without sacrificing his interest and his efforts in behalf of the other divisions of the greater University of Missouri. Without question he is one of the greatest university administrators of all times. His sound educational policies have established the School of Mines and Metallurgy upon such a firm foundation that the great progress made in recent years is bound to continue in the future. We shall all miss the inspiration of his dynamic personality and his wise counsel but we shall never relinquish our gratitude to him for all that he has done for the students and faculty of Missouri School of Mine and Metallurgy."

Faculty Sends Resolution

The faculty of MSM at a meeting on January 18, 1954 unanimously adopted the following resolution and asked that Dean Wilson transmit it to Dr. Middlebush.

"The Faculty of the School of Mines and Metallurgy notes with regret your resignation as President of the University of Missouri. We greatly appreciate your constructive policies and many efforts on behalf of this institution which have been evident during the years of your administration. This Faculty wishes for you all success and happiness in the coming years."

Commenting upon Dr. Middlebush's resignation, (Continued on Page 10)

The President's Column

Your attention is invited to the following comments by Enoch Needles, Chairman of the Finance Committee, and Rex Williams, Chairman of the Membership Committee:

"The response to the letter appeal for operating funds to support the new order of things (paid Executive-Secretary) at the Alumni Office has been exceedingly fine, but it should be remembered that we could make personal appeals to a limited number only and this we regret. The program is well underway but to realize the \$5000 goal we need the support of all — no amount is too small—volume is what will turn the trick.

Sincerely,
Enoch Needles"

"Up to January 15th some 1225 alumni had paid their dues for the current year. This response from the men of MSM is encouraging and shows that those men want an active alumni association and are willing to help keep it active and growing. However, there are approximately 6000 living MSM alumni and 1200 is only one-fifth of that number. Surely more than one-fifth of our alumni will be willing to become members. If you can help bring some of them "into the fold", please do so.

Our membership campaign is well started, but it is, only started.

Sincerely,
Rex Williams"

The progress made both in increasing our membership and raising funds to meet our anticipated operational deficit for 1954 are indeed heartening and inspiring and in the words of Claude Valerius this response "is the sort of thing that makes it seem worthwhile to the Officers and Directors to keep plugging to build up a greater School of Mines and a greater Alumni Association." Rex Williams and Enoch Needles and the members of their committees should be complimented on their results to date, but I concur in their remarks that we still have a long ways to go. I therefore appeal to

all who can to join the following list which represents the contributors to our fund at the time our copy went to the printer:

List of Contributors

A. L. Ackers '22
J. W. Bodman '10
B. Degen Boyd '26
R. B. Caples '10
F. H. Conley '27
W. F. Cooke, Jr. '35
E. A. Crawford '29
John J. Doyle ex '15
George A. Easley '09
K. A. Ellison '25
E. W. Engelmann '11
Paul E. Fischer '23
Charles Freeman '28
James L. Gregg '23
Ray J. Haffner '31
Clyde W. Hall '14
K. O. Hanson '36
Sam D. Hodgdon '28
S. E. Hollister '13
Claude Kemper '24
Homer L. Leonard '23
E. R. Needles '14
Barney Nuell '21
H. S. Pence '23
H. J. Pfeifer, Jr. '36
C. J. Potter '29
D. H. Radcliffe '13
W. E. Remmers '23
Harold F. Shore '22
Van H. Smith '10
Howard J. Teas '17
Harvey L. Tedrow '11
A. D. Terrell '98
E. S. Tompkins ex '14
Morris L. Tyrrell '26
C. N. Valerius '25
H. H. Vogel '16
R. T. Wade '31
J. M. Wanenmacher '23
R. S. Webster '03
M. P. Weigel '23
Bruce Williams ex '05
Joseph M. Wilson '21
H. E. Zoller '23

Mr. George Easley '09, President of your Alumni Association in 1936 and 1937 writes as follows:

"I am heartily in accord with the platform and principles presented in your address at Homecoming. It is a source of satisfaction to me that you are moving rapidly to make your declarations a reality. I agree with the recent statement of Mr. Powell McHaney, President of the Board

1954 Homecoming to Be October 16; Miners to Play Maryville Bearcats

The Faculty has approved October 16, 1954, for the annual Homecoming. A feature of the day will be a football game between the Miners and Maryville State College. Professor Leon Hershkovitz, acting Secretary-Treasurer of the Alumni Association, is chairman of the Homecoming Committee.

MSM Alumni Dinner

During

AIME National Convention

February 16, 1954

at

Building Trades Employers

Association Hall

2 Park Ave.

New York, New York

6:30 P.M.

of Curators, that the low faculty salaries seriously endanger our teaching system."

The Board of Curators and the University Administration are cognizant of the need for higher salaries for the University and the School of Mines Staffs and it is hoped that the Legislature and the Governor may shortly give heed to this deficiency.

Sincerely,
H. S. Pence, President

MSM ALUMNUS

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Alumni Association Embarks on Ambitious Program Under New Finance Plan

The MSM Alumni Association has embarked upon a sound and ambitious program to render service to the school, to the students and to the alumni and former students. The objectives were outlined by Harry Pence, the president of the Association, in his convocation address at Homecoming last October. To achieve these objectives, it will be necessary to augment the present membership plan of financing the program, as is being done this year, or adopt the Annual Fund

plan as authorized by the Board of Directors in 1947.

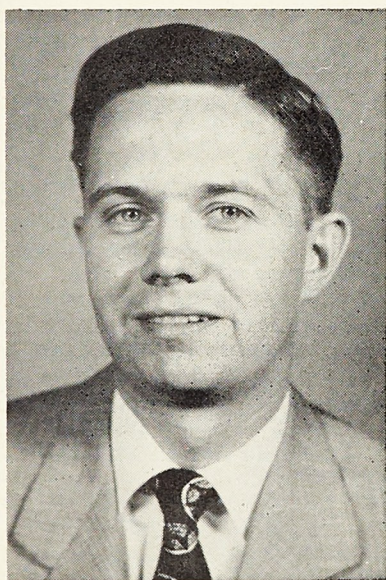
The Annual Alumni Fund plan eliminates annual fixed dues and operates similar to the Community Chest or other organizations of this type, whereby both large and small contributions may be accepted. Also, in most cases, the contributions come within the Internal Revenue code as an exemption from income tax.

The plan has proven very successful in schools that have adopted it, and from the annual survey of the American Alumni Council it appears this may be the answer to our problem. The survey does not include all schools using the plan but is representative and proves conclusively it accomplishes the purpose intended. The survey shows that in 1947, 140 institutions conducted alumni fund campaigns. In 1952, five years later, there was nearly a 100 per cent increase or 270 institutions using this plan of a fund raising. The number of contributors and the total contributions increased proportionately with an average individual contribution of approximately \$24.75.

Apply this to our association using our membership total of 1400 in 1952-53 as the "total contributors" figure, the alumni association would have had an income of plus \$34,000.00 to finance the program. You may say the "average contribution" figure is out of line. If so, we can cut it in half, say \$12.00 times 2000, the "target membership" set by the association for 1953-54. This would total \$24,000.00, an amount which would permit the alumni association to accomplish the objectives it has established. Serious consideration must be given this phase of operation as it is necessary for a strong association.

James L. Miller, '48, to Missouri - Illinois Area

James L. Miller '48, has been appointed a refractories engineer for the Norton Company of Worcester, Massachusetts, responsible for a new territory which consists of Missouri and all of Illinois south of Chicago. Jim has been



JAMES L. MILLER

with Norton since 1951 and prior to his present appointment, he was a member of the refractory sales engineering department. Following graduation from MSM, Jim was a metallurgist at the U. S. Steel Company plant in South Chicago.

Mr. and Mrs. Miller are residing at 131 Peach Street, Park Forest, Illinois.

Dean C. L. Wilson Named Rolla "Man of the Year"

Dean Curtis L. Wilson has been named the Rolla "Man of the Year" by the Rolla Daily Herald newspaper in Rolla.

In making the citation the Herald pointed to Dean Wilson's activities both in Rolla and throughout the state and nation since he came here in 1941. It recited particularly the Dean's activities in the Rolla Chamber of Commerce from which he has been awarded their citation of merit, the Rolla Rotary Club, the Rolla schools and other activities together with his work in the School of Mines and on the numerous committees on which the Dean served in the national professional organizations since he has been the head of the School of Mines. It particularly referred to the Dean's recent appointment by the Secretary of the Interior as Chairman of the Survey Group to make recommendations concerning the United States Bureau of Mines.

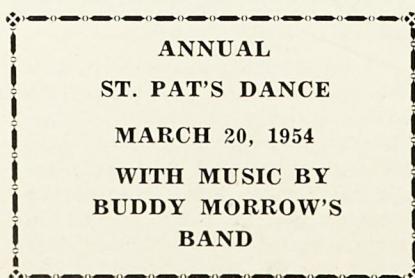
The Man of the Year last year was Daniel Kennedy, MSM '26, Head of the Topographic Branch of the U. S. Geological Survey in Rolla.

Tribute Paid to Grad's Work in Morocco

The "Moroccan Courier" July '53, published in Casablanca, dedicated the entire issue to the East Atlantic District, U. S. Corps of Engineers in Morocco. Col. Jack P. Campbell '24, has been the district engineer of this district since 1950 until his recent completion of assignment. Now, Jack is back in "College Circles" and his new assignment is Professor, Military Science and Tactics, Carnegie Institute of Technology at Pittsburgh, Pennsylvania. His son may follow in his father's footsteps, as he is now attending the U. S. Military Academy at West Point.

John C. Clark, '11, Dies

John C. Clark, '11 passed away August 13, 1953 at his home at 403 Bridge St., Spring City, Pennsylvania, following a long illness. While a student at MSM he was a member of Kappa Sigma and the Athletic Association.



Schedule of Athletics Events

The Miners cage team thus far this season have a record of 4 victories and 5 defeats in conference and non-conference contests.

Their record is as follows:

Miners 72	Westminster	62
Miners 77	Wentworth	51
Miners 72	Harris Teachers	50
Miners 47	Westminster	56
Miners 71	S. W. Tennessee	72
Miners 48	Cape Girardeau	73
Miners 65	Cape Girard'au	101
Miners 65	Principia Col.	56
Miners 50	Washington U.	75
Miners 57	Warrensburg	66

Games to be played:

Jan. 29	Maryville	Away
Jan. 30	Kirkville	Away
Feb. 3	Harris Teachers	Home
Feb. 6	Kirkville	Home
Feb. 9	Warrensburg	Away
Feb. 12	Washington U.	Home
Feb. 16	Springfield	Away
Feb. 20	Maryville	Home
Feb. 23	Springfield	Home

Nine inter-collegiate contests have been scheduled for the swimming team. Two contests have been held. The Miner team won from Kemper Military Academy 59 to 21 and were on the losing end of the score when they met Washington University, 54 to 30. The schedule for the remainder of the season is:

Illinois Normal University, here; Grinnell College, there; Eastern Illinois College, there; St. Louis University, here; Washington University, here; University of Louisville, here; Kemper Military Academy, here.

The annual MIAA Indoor Track meet will be held at Columbia, Missouri, March 20.

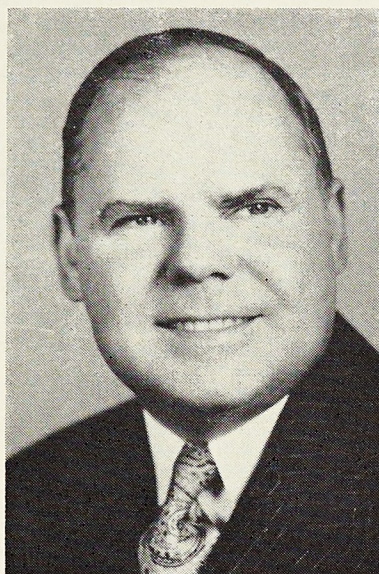
The Athletic Department is quite proud of their new score board presented to them by the student council. It is an all-purpose score board so designed to score and time all types of athletic contests.

George F. Kellogg, '08, Dies

George Fred Kellogg '08, passed away November 15, 1953 at his home at 1101 Magnolia, St. Joseph, Missouri. Until the time of his death, Fred was President of the Kellogg-Kelley Seed Company in St. Joseph.

J. P. Gill, '18, New Head Of Vanadium-Alloys Co.

Directors of the Vanadium-Alloys Steel Company, Latrobe, Pennsylvania, in a meeting November 24th elected James P. Gill '18, President of the Company. Vanadium-Alloys' new President joined the Company in 1920 as Chief Metallurgist; (he was elected Vice-President in 1943 and in 1945 was made Chairman of



JAMES P. GILL

the Executive Committee of the Vanadium - Alloys Steel Company and subsidiaries.) He is now President of Colonial Steel Company and was recently named President of Vanadium - Alloys Steel Canada Limited.

An extremely active member of the American Society for Metals, James has been interested in that organization's activities since its founding. He served as Pittsburgh Chapter Chairman of the group in 1926-27, Chairmanned the committee which published a handbook of the organization in 1939, served as a Trustee in 1937 and was elected National President for 1939-40.

James is well known and recognized as an authority on Tool Steels within the metal-working industry. As such, he has authored many articles and books, and is a much sought after speaker and lecturer for technical groups and societies.

Born in Montgomery City, Mis-

F. E. Edwards Attends Public Relations Meeting

Mr. F. C. Edwards, executive secretary, MSM Alumni Association, attended the joint annual conference of District VI of the American Alumni Council and American College Public Relations Association at Ames, Iowa, December 6-9.

More than 150 men and women, professionally engaged in alumni and public relations work of colleges and universities covering a seven state area were present. Prominent speakers on the program included James H. Jenson, Provost, Iowa State College; Dr. Walter Steigleman, professor of journalism, University of Iowa; Owen Saddler, vice-president, KMTV, Omaha, Nebraska; Dr. H. H. Brooks, President Coe College, Cedar Rapids, Iowa and George Yates, chief photographer, Des Moines Register and Tribune.

The three-day conference included panels and workshops covering phases of alumni and public relations work. Arthur Brandon, director of public relations of the University of Michigan presided at a special panel consisting of five college presidents that discussed, "The Place of Public Relations and Alumni Activities in the Total College and University Program."

The national presidents, Seward J. Marsh, of Bowdoin College, president of the alumni association and Mrs. Veta Smith, Marshall College, Huntington, West Virginia, president of the public relations association, were present and made excellent and constructive contributions to the conference.

Missouri, James received his education at the Missouri School of Mines and Metallurgy and at Columbia University in New York. He received his Bachelor of Science degree in Metallurgical Engineering at Missouri School of Mines and Metallurgy in 1918 and in 1919 his Metallurgical Engineering degree. In 1922 he returned to MSM and completed work for his Master of Science degree in Metallurgical Engineering. At the 75th Anniversary Convocation on the Missouri School of Mines campus he was awarded the honorary degree of Doctor of Engineering.

Outstanding Progress Being Made by MSM's Department of Electrical Engineering

Since its establishment as an independent Department in September, 1924, the Electrical Engineering Department of the Missouri School of Mines and Metallurgy has made outstanding progress.

Old timers may recall that prior to 1915 the equivalent to a degree course in electrical engineering was taught in the Physics Department but the degree given was B.S. in Science. Starting in 1915 a degree course in electrical engineering was given by the Physics and Electrical Engineering Department and degrees of B. S. in Electrical Engineering were awarded. This was continued until 1924 when the Electrical Engineering Department in its present form, as separate from the Physics Department, was established, and since then this Department has come to occupy a place of national prominence among the best engineering schools of our land.

With a peak graduation class of 123 in electrical engineering in the post-war year of 1950, an all-time high in placement records for electrical graduates was established. During the present time there is a steady stream of representatives from the important organizations in electrical industry coming to the Missouri School of Mines campus to hire electrical engineers. During this present year several times the number of this year's graduates in electrical engineering could be placed.

The most important part of an educational institution is a competent teaching staff. The quality of the teaching staff in the Electrical Engineering Department is evidenced by the national recognition which its members have attracted to MSM. Since 1952, for example, various staff members of professional rank have represented the school with papers in national technical society meetings six times, and a total of four publications were prepared by Department staff members in the 1952-53 academic year. Among these publications is a textbook which is currently in press and which is expected to bring honor to M.S.M. Members of the De-

partment staff afford the school representation on six different committees of national professional societies, A.I.E.E. and I.R.E.

In order to produce electrical engineering graduates with excellent training, laboratory apparatus as fine as available anywhere in this central southwest area has been assembled. From the standpoint of equipment, it can be said with reasonable safety that no school in this area has a larger variety or a larger quantity of electrical laboratory equipment per student enrolled than does the M.S.M. Electrical Engineering Department. The recent addition of an analog computer and a d.c. network analyzer, together with servomechanism and U.H.F. facilities give evidence of determination to keep pace with the newest developments in electrical engineering.

In the efforts to maintain a high level of professional activity, however, space limitations for laboratory equipment have become a serious problem. The deficiencies in the housing facilities for laboratory apparatus will ultimately have a serious affect on the quality of instruction. This will become more evident in future years when again large increases in enrollment are expected.

Norwood Hall, which presently houses the electrical engineering laboratories, long ago began to bulge almost to the bursting point. Its walls have housed a multiplicity of combinations of departments since it was constructed in 1902; its rooms, designed to accommodate the number of classes in a period when enrollment was considered tremendous if it exceeded six hundred, have been partitioned and re-partitioned in an effort to make more effective use of available floor space for the present larger number of classes.

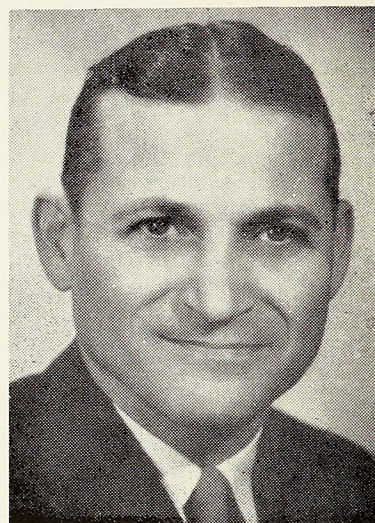
In short, the school has expanded to such an extent that one building simply is not large enough to house three major departments. Consequently, the Electrical Engineering Department is now scattered literally over the campus, occupying all or part of

(Continued on Page 8)

Leon Hershkowitz Pinch Hitting for H. R. Hanley

Leon Hershkowitz '41 has been designated by President Harry Pence of the Alumni Association to serve as acting Secretary-Treasurer of the organization during the absence of Professor H. R. Hanley who is doing special educational work for the Chinese Government on the Island of Formosa.

Hersh completed work for his degree in Civil Engineering in 1941 and received his Master's



LEON HERSHKOWITZ

Degree in Civil Engineering in 1948. He has had extensive highway experience with the Illinois State Highway Department and during World War II he served as a captain in the Corps of Engineers in the Pacific area where he saw considerable combat duty. He joined the faculty of the School of Mines in 1946 and is now Assistant Professor of Civil Engineering on the MSM campus.

Hersh served as Chairman of the Faculty Homecoming Committee last year and the event was generally considered as one of the best in the history of the Alumni Association. He will work with the Executive Secretary of the Association, Ike Edwards, in keeping up the functions of the organization during Professor Hanley's absence.

Join the Alumni Association
of your Alma Mater.

Operators and Engineers in Coal Industry Hold First Conference on MSM Campus

A two day Coal Conference of operators and engineers engaged in the coal industry was held on the School of Mines campus December 3 and 4. Dean Curtis L. Wilson said the Conference, the first held in this area, was designed to bring leading national authorities in the industry to the campus to discuss outstanding problems in the principal phases of the production, distribution, and utilization of coal and its by-products. Dr. J. D. Forrester, chairman of the department of Mining Engineering, was chairman of the Conference committee.

Tom Pickett, Executive Vice-President of the National Coal Association, was the principal speaker at the conference dinner held at the Hotel Edwin Long on December 3. Pickett noted that this year, by best estimates, coal producers will spend \$500,000,000 for new equipment, maintenance and repair of existing facilities. "But," he said, "all of the industry's research, all of its spending for new tools and equipment will be of little avail if the Government continues to encourage competitive fuels in taking coal's historic markets away." He pointed to the unrestricted flood of residual oil from abroad pouring into the Atlantic seaboard ports as the most unfair competition faced by coal because residual oil, as a waste product, has little other use except as boiler fuel. But since 1946 there has been a mushroom growth in shipments of residual oil into this country, until in 1952 such deliveries reached 129,000,000 barrels. This has forced the closing of more and more coal mines and has erased not only miners jobs, but jobs in the railroads as well.

Pickett warned that this problem is not just a matter of concern for Eastern Coal producers because Eastern producers, unable to sell in their usual eastern markets, will look in other directions and begin selling in markets usually dominated by Middle Western or Southern producers. Pickett also spoke against the use of limited natural gas supplies for inferior purposes such as boiler

fuel and noted that before many years it will become necessary to conserve this fuel resource for only special uses where it can command a premium price.

Pickett stated that because of the rising demand for electric power and the continued high level of steel production, coupled with high hopes in some quarters for the chemical industry, coal faces a future brighter than anything in its past.

Other speakers on the program included Dr. Charles J. Potter '29, President of the Rochester and Pittsburgh Coal Company, Indiana, Pennsylvania, who delivered an interesting paper at the morning session on December 4th dealing with Current Problems of Preparation of Bituminous Coals. Dr. L. E. Young, MSM Honorary '47, of Pittsburgh, Pennsylvania a former director of MSM presided at the afternoon session on December 3rd.

Twelve other speakers delivered papers of outstanding interest to the visiting engineers and operators and also to the faculty and students of the School of Mines. Dr. Forrester expressed the opinion that the entire program was of outstanding interest throughout.

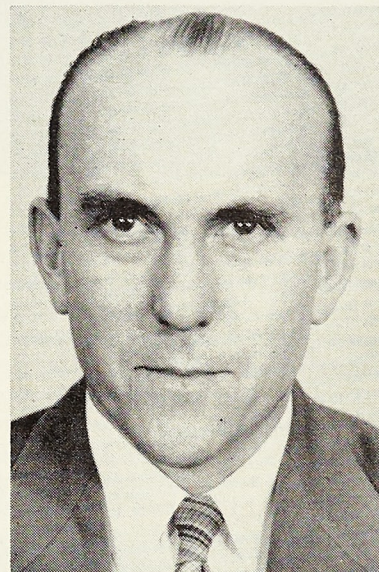
The School of Mines and Metallurgy presented the conference through the University of Missouri's Adult Education & Extension Service and in cooperation with the Missouri Coal Operators Association and the Missouri Geological Survey, under the direction of

Lambda Chi's Plan New Home on North Pine St.

The Lambda Chi's have recently purchased a building lot sited on North Pine street near highway 66. The lot is now being cleared and plans have been made to start building early next spring. It seems that the house they now have is not quite large enough to hold all of the men. Everyone is quite enthused about the whole affair.

R. P. Haviland Gets G-E Assignment at Key West

Robert P. Haviland '39, has been appointed Station Supervisor of the Key West Station of General Electric Company, Naval Ordnance Department, Key West, Florida. Robert graduated from MSM with a B.S. degree in Electrical Engineering. Following graduation, he was associated with



ROBERT P. HAVILAND

the Schlumberger Well Surveying Corporation in Texas and Louisiana until 1942. At that time, he joined the Navy.

During Navy service, he was the Naval Liaison officer at the Radiation Laboratory, Massachusetts Institute of Technology and with the Bureau of Aeronautics. In 1947, after his Navy release, Robert joined the Schenectady A. & O. S. Division in the Guided Missile activity where he became Supervisor of electrical systems engineering. He was transferred in July, 1953, to the Naval Ordnance Department and was assigned to the Key West Field Station, Key West, Florida.

Mr. and Mrs. Haviland have three children, Kay, 13; Jean, 11; and Jon Robert, 7.

Mr. and Mrs. Jesse S. LeGrand '38, announce the arrival of Vincent Jesse LeGrand on December 7, 1953. The LeGrand's are living at 348 Innes Road, Wood-Ridge, New Jersey.

Scholarship Winners



Leonard J. Keller, left, was awarded a scholarship from the General Scholarship Fund at the Christmas Convocation at the School of Mines and Metallurgy. Keller is a junior in Mining Geology. This is the fifth scholarship from a donation made in 1950 by a member of the class of 1916 for five \$100 scholarships extending from 1950 to 1954. The other two students above are Larry N. Fussell, East Prairie, Missouri, sophomore in Chemical Engineering, and Herbert W. Miller, Utica, Missouri, freshman in Chemical Engineering, who were awarded scholarships from the Student Educational and Loan Foundation fund established in 1948 by a group of alumni of MSM from which scholarships are awarded each year to freshman and sophomore students. The selection was made by a faculty committee on the basis of attainment and need.

E. E. Department

(Continued From Page 6)

three temporary buildings, a portion of Norwood Hall, and two rooms in the Old Metallurgy Building. One serious consequence is the reduced coordination of intra-departmental activities, but by far the most serious consequence is the lack of adequate laboratory housing. For example, there is enough equipment in the Department to support a complete Industrial Electronics Laboratory. This laboratory cannot be established because there is no adequate space to assemble and carry on experimental work with this apparatus. The new computing equipment previously mentioned can be only partially exploited because of the lack of space into which it can be expanded and in which classes can be conducted when studying its principles and operations.

Also, there is a considerable quantity of U.H.F. apparatus, wave guides, oscillators, antenna equipment etc., but the room used for a Radiation Laboratory must

also be used as a classroom — the only classroom left that the Electrical Engineering Department can claim in Norwood Hall. Recent gifts of television equipment have simply been stacked on top of other equipment in the under graduate radio laboratory and the miniature surge voltage generator currently under design (with its wide opportunities for research) will simply have to be tucked into an already over-crowded corner of an electrical machinery laboratory.

Actually the need for an electrical laboratory building has been established as the top priority building need on the Rolla Campus, and everyone concerned, from the members of the Board of Curators on down, are bending every effort to get the necessary funds with which to fulfill this need. Plans have been approved and drawings and specifications have been prepared so that on approval of the necessary approp-

Why not become a member of the Alumni Association.

Dr. L. E. Young Dies; Ex-MSM Director

Dr. Lewis E. Young, a leading mining engineer, died at his home December 27, 1953 at the age of 75. He was born in Topeka, Kansas, and had spent most of his childhood in Columbia, Pennsylvania.

After he was graduated from Pennsylvania State College in 1900, he became an instructor at Iowa State College, where he remained until 1903. From 1903 to 1907, he was Professor of Mining at the Colorado School of Mines. For the next six years he was director of the Missouri School of Mines and Metallurgy. In 1915, he went to the University of Illinois to study mining problems.

Dr. Young was manager of the steam heating department of the Union Electric Company of St. Louis from 1918 to 1926. In 1927, he was elected vice president of Pittsburgh Coal Company in charge of mining operations. He served until 1939 when he began a career as a consulting mining engineer.

In 1949, he was elected president of the American Institute of Mining and Metallurgical Engineers.

Dr. Young delivered the Commencement address at MSM in 1947, and was awarded the honorary degree of Doctor of Engineering.

riation, invitation for bids for an extension of the Engineering Laboratories Project can be submitted.

Yes, the Electrical Engineering Department is moving forward. It is a far cry from the small but effective nucleus which was established in 1924, but there still exists the same indomitable spirit that prompted the pioneers to plan the beginning of a program of study which has now led to an outstanding curriculum. The present staff will continue to work for greater development until this Department, and its instruction in electrical engineering, will be outstanding among its kind in the nation. This can be accomplished through facilities provided in a new Electrical Engineering Building.

Dr. Hanley to Help Improve Engineering Education at Tiawan University, Formosa

Dr. H. R. Hanley, outstanding authority on non-ferrous metals, left the United States for the Orient December 22 to organize a department of non-ferrous metallurgy in the University of Taiwan, in Tainan, Formosa.

Dr. Hanley, who is professor emeritus of metallurgical engineering at MSM left here on December 12 for San Francisco and, accompanied by his wife, flew directly to Tokyo. He arrived in Formosa early in January and is to remain there for a year or more.

Dean Curtis L. Wilson of the School of Mines and Metallurgy, who made the announcement about Dr. Hanley, said that the Mutual Security Agency of the United States Department of State has entered into a contract with Purdue University to improve engineering education at Taiwan University, one of the educational institutions sponsored by the free China government of Formosa, and that Purdue selected Dr. Hanley for the metallurgical assignment.

Dr. Hanley is a graduate of the School of Mines, class of '01, and upon graduation he went with the Bully Hill Copper Mining and Smelting Company in California, where he remained approximately sixteen years and became thoroughly versed in the field of non-ferrous metallurgy, particularly electrolytic zinc and copper smelting. Following his tour of duty with the Bully Hill Company, he became associated with the United States Smelting, Refining, and Mining Company and constructed and operated an electrolytic zinc plant in Kennett, California.

In 1923, he returned to Rolla and became associated with the Metallurgical Engineering Department of the School of Mines and later served as head of the department for several years.

At the School of Mines and Metallurgy, as a result of various phases of research which he has carried on and off an extensive consulting practice, he became recognized as one of the outstanding authorities in the field of non-ferrous metallurgy and particularly the metallurgy of zinc.

Dr. Hanley is the author of 32

papers published in the engineering press dealing with non-ferrous metallurgy, and for nine years wrote the annual review of the developments of the metallurgy of zinc during the preceding year, which reviews have been published in the magazines, *Mining and Metallurgy* and the *Engineering and Mining Journal*.

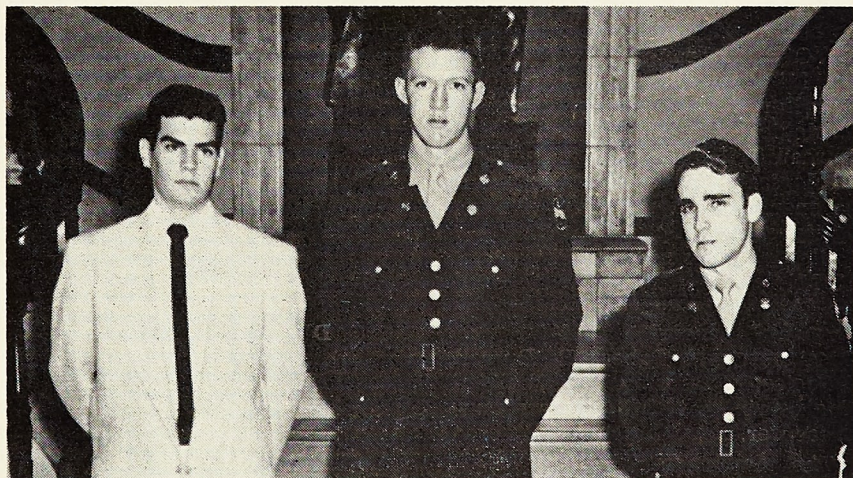
Dr. Hanley's first degree was in the field of mining, but later, as a result of his experience in metallurgy, he was granted the professional degree of Metallurgical Engineer. In 1946 he was granted the honorary degree of Doctor of Engineering by the School of Mines & Met. Although officially retired, Dr. Hanley has continued to do some teaching and has carried on an extensive research program in various fields of metallurgy since his retirement. His consulting contacts have been extensive, some of them covering more than

twenty-five years, and in at least two instances they have involved projects outside the continental United States. He is a registered engineer in the State of Missouri.

Dr. Hanley has for a number of years been secretary-treasurer of the Missouri School of Mines Alumni Association and was just re-elected for a three year term. During his absence from Rolla, Prof. Leon Hershkowitz, Assistant Professor of Civil Engineering, has been appointed acting secretary-treasurer of the Association by Harry S. Pence, president of the Alumni Association.

Dr. Hanley has been active in various professional organizations throughout his entire lifetime, including the American Institute of Mining and Metallurgical Engineers to which he was awarded honorary life membership, the Mining and Metallurgical Society of America, the Electrochemical Society, the American Electroplaters Society. He has served as chairman of the Lead and Zinc Committee and of the St. Louis section of the AIME.

Lucy Wortham James Scholars



Winners of the Lucy Wortham James Scholarship for 1953-54. Left to right: Roy Thomas Smith, St. Louis, Missouri, freshman in Ceramic Engineering; Charles J. McCoy, Sikeston, Missouri, sophomore in Chemical Engineering; and Raymond L. Hussey, St. Louis, Missouri, freshman in Mechanical Engineering. These scholarships are made available in memory of the pioneer James family that developed the Meramec Iron Works at Meramec Springs, Missouri and funds were provided by the trustees of the foundation established by the late Lucy Wortham James. The scholarships were awarded by a faculty committee, the selection being based on scholarship, integrity, engineering promise, and need. The awards were presented at the Christmas Convocation at the School of Mines and Metallurgy.

Sigma Xi Chapter Approved for MSM

The fifty-fourth Annual Convention of The Society of Sigma Xi recently held at Boston approved the establishment of a chapter of the Society at the University of Missouri School of Mines and Metallurgy. The sole purpose of Sigma Xi is the encouragement of original investigation in science pure and applied. Chapters are installed only on campuses where research is promoted and there are many of the faculty who are members of Sigma Xi.

Sigma Xi was founded at Cornell University in 1886 by eight engineering students and one young faculty member. There are now 115 chapters and more than 60 clubs in the leading universities and technical institutions in the United States and Canada. The membership of the Society is composed of men and women who are engaged in, or devoted to, scientific research. The total membership is now about 65,000.

The local club has been functioning for many years through the University of Missouri chapter. The present local membership is seventy. Of this group, fifty are from the Missouri School of Mines and Metallurgy, nine from Missouri Geological Survey, six from U. S. Bureau of Mines, two from U. S. Geological Survey, and three are independent of any organization. The present officers are Harold Q. Fuller, Professor of Physics at MSM, President; Thomas M. Morris, Associate Professor of Metallurgical Engineering at MSM, Vice-President; and Robert R. Russell, Associate Professor of Chemical Engineering at MSM, Secretary-Treasurer.

The American Scientist is the official publication of the Society and it is distributed to all active members and associate members with local or national affiliation.

The installation of the chapter of Sigma Xi on Missouri School of Mines campus will take place later in the spring. The exact date has not been set but local committees have been appointed and plans are being formulated. It is anticipated that many of the national chapters will be represented at the formal installation.

George A. Rees, '50, Joins Linde Air Products Co.

George Anderson Rees, '50, has joined the staff of the Metals Research Laboratories, Linde Air Products Company, P.O. Box 580, Niagara Falls, New York. Prior to



GEORGE A. REES

joining the Metals Research Labs, George was employed for three and one-half years as an assistant chemical engineer at Armour Research Foundation in Chicago, Illinois, working in the field of extractive metallurgy.

Initial activity with the Corporation was at Niagara Falls as a Research Assistant in the Metals Research Group of the Metals Research Laboratories.

DR. MIDDLEBUSH

(Continued From Page 2)

bush's retirement Harry S. Pence, President of the Alumni Association said, "Announcement of the resignation of Dr. Frederick A. Middlebush as President of the University of Missouri brings to the members and officers of the MSM Alumni Association a feeling of profound regret. Dr. Middlebush has worked closely with MSM alumni, individually and as an association, for the progress of Missouri School of Mines and the University of Missouri.

"It has been a stimulating experience to have worked so closely with him. He has understood our problems and our objectives,

Positions Available

December 30, 1953

MINING ENGINEERING — An Indiana firm manufacturing mining and milling equipment desires a young Mining Engineer with several years mining experience for sales and service work.

METALLURGICAL ENGINEER — A Missouri organization manufacturing parts and assemblies desires a young Metallurgical Engineer with several years experience for work testing metals and materials with regard to strength, purity, corrosive action, plating, and investigative phases on welding and riveting.

MINING ENGINEER — A mid-western company desires graduate Mining Engineer for powder and explosive sales work.

CIVIL AND MECHANICAL ENGINEERS — An Idaho firm desires Civil or Mechanical Engineers for employment in fabrication of steel and metal products.

CERAMIC ENGINEER — A Tennessee company desires a Ceramic Engineer for manufacture of technical ceramics. The products are principally vitreous ceramic materials and refractories.

CHEMICAL ENGINEER — An Arkansas organization desires a Chemical Engineer for oil refinery work.

MINING ENGINEER — A manufacturer of mining and milling equipment desires to employ a chief engineer. Applicant must have at least 10 years experience preferably in coal mining fields. Experience as a mine and mill superintendent very desirable. Must know all phases of work.

and has given his cooperation in our efforts to aid our school.

"He has attended and addressed alumni section meetings in St. Louis, Rolla, Chicago, Houston, New York, and other cities, at which times and places he has discussed frankly and freely the plans for MSM which we have heartily endorsed and to whose fruition we have been privileged to contribute.

"It is therefore appropriate that I, as President of MSM Alumni Association, should express our regret at his resignation; but with due recognition that after 20 years of splendid service as President his wishes certainly should be granted."

Many Recent Graduates Working for Mo. Pac. R. R.

Charles T. Schweizer '51 who was a recent campus visitor recruiting graduates from the January Class for the Missouri Pacific Railroad states that there are a total of 13 recent graduates, beginning from 1949 to date, now employed by the Missouri Pacific. In addition there are several older engineers with the Mo. Pac. not shown on the list.

The younger graduates, their location and the type of work they are doing are listed below:

Robert Jean Kemper, '49, Assistant Division Engineer on Maintenance, Kansas City, Mo.

William Edward Turner, '49, Instrumentman on Maintenance, Jefferson City, Mo.

Aaron Joseph Greenberg, '50, Str. Designer, St. Louis, Mo.

Arthur Otto Kruse, '50, Instrumentman on Maintenance, Little Rock, Ark.

Donald Jay Bertel, '51, Instrumentman on Maintenance, Poplar Blumm, Mo.

Charles Thomas Schweizer, '51, Instrumentman on Construction, St. Louis, Mo.

William Ernst Brakensick, '51, Instrumentman on Maintenance, Falls City, Nebr.

Franklin LaVerne Moore, '51, Instrumentman on Maintenance, St. Louis, Mo.

John Earl Mulholland, '52, Instrumentman on Maintenance, Jefferson City, Mo.

Randal Lee Garten, '53, Instrumentman on Maintenance, Monroe, La.

Carroll Dean Barton, '53, Instrumentman on Maintenance, Poplar Bluff, Mo.

Joe B. Reynolds, '53, Instrumentman on Construction, St. Louis, Mo.

Francis Lorraine Diebold, '53, Instrumentman on Construction, St. Louis, Mo.

Parents of Triplets

Mr. and Mrs. David L. Hillhouse '50, are the parents of triplets born July 2, 1953. The boys were named Michael David, Charles Adam, and Timothy Leslie. The Hillhouse family is residing at 353 Summit Avenue, Schenectady, New York. David is an Electrical Engineer at General Electric.

Ark-La-Tex Chapter

The third regular meeting of the Ark-La-Tex Chapter of the MSM Alumni Association was held at Caney Lake at 6:00 p.m., December 12, 1953. The members were guests of J. C. Salmon and Gerald Roberts. Approximately twenty-four alumni and wives attended this gathering and an excellent time was had by all. The function was primarily social; however, a short business meeting was held in order for the alumni representative, C. N. Valerius, to explain the new organization of the alumni chapter. The outgoing president, F. H. Conley, gave a short history of the organization and reported on the Homecoming party. The officers for 1954 were elected: J. C. Salmon, President; R. T. Wade, Vice-President; and Kenneth J. Gereau, Secretary-Treasurer.

The next meeting is scheduled for the fourth Saturday in March which will be sponsored by John H. Livingston and W. H. Bruning. The alumni working for Schlumberger have volunteered to sponsor the meeting which will be held the fourth Saturday in June.

Interviews

The following is a list of companies who had representatives interviewing students for employment since the last issue of the alumnus:

Central Foundry Division, General Motors

Hazeltine Electric Corporation

Line Material Company

The Kaiser Service Co.

The Chain Belt Co.

General Electric

The Buckeye Cotton Oil Co.

U. S. Steel Corp. (National Tube Division)

Carbon & Carbide Chemical Co. (Oak Ridge)

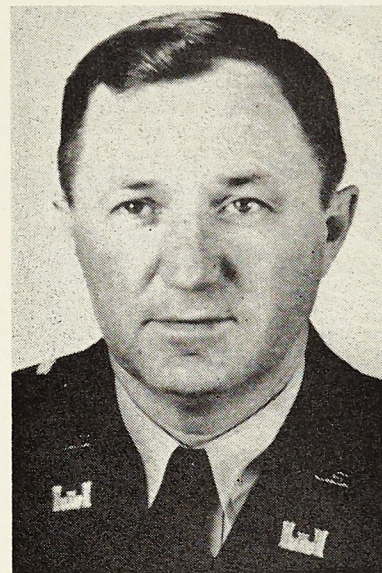
U. S. Gypsum Co. (Southard, Okla.)

Allis Chalmers Mfg. Co.

Guy C. Ellison '52, and Mrs. Ellison, of 2811 Van Highway, Tyler, Texas, announce the arrival of their son, Gregory William, who was born November 18, 1952.

Col. M. G. Tieman, '31, to Rhine Engineer Depot

Col. Martin G. Tieman, Jr. '31, who has been stationed with the Research and Development Division, U. S. Army General Staff in Washington, D. C., has been re-assigned and is now in command



COL. MARTIN G. TIEMAN, JR.

of the Rhine Engineer Depot in Germany. Martin graduated from MSM with the degree of Bachelor of Science in Civil Engineering. He served as President of the Glee Club; lettered in basketball; and was on the Student Council.

Martin's wife is living at 1704 Oakcrest Drive, Alexandria, Virginia.

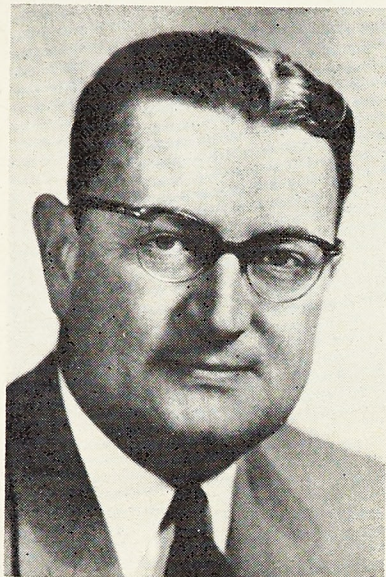
St. Louis Section

The St. Louis Section of the Alumni Association held their annual Christmas Stag Meeting at the University Club, in St. Louis, December 12. The luncheon was well attended and the section president John P. Soult '39, presided. The section boasts of a "dues paying membership" of 350. The drive was spearheaded by Joe Mooney, ex '39. Another accomplishment they are proud of is their new directory listing members of the section. It is a mimeographed edition and has met with acclaim from the membership and those who have seen it.

Kenneth Hoevel Promoted By National Supply Co.

Kenneth O. Hoevel, '33, for nine years division sales manager of the Midwest Division of The National Supply Company, with headquarters at Tulsa, has been promoted to division manager of the Northwest Division.

In his new position, Kenneth will have his headquarters at Denver, Colorado. He started with the company in 1935 as a store clerk, serving at Oklahoma City and Semi-



KENNETH HOEVEL

nole, Oklahoma. In 1937 he was sent to the Company's Torrance, California plant for training in sales and service work on rotary drilling equipment, then spent two years in this work in the oil fields of Kansas. He was appointed a sales engineer at Tulsa in 1939 and became general foreman of the assembly department at the Toledo plant in 1942. He was named division sales manager at Tulsa in 1944.

Kenneth attended the University of Tulsa for two years and later received a degree in mechanical engineering from MSM. He is a member of the American Petroleum Institute, the Nomads, and the American Society of Mechanical Engineers.

Charles M. Schnaidt, '19, Dies

Charles M. Schnaidt '19, passed away at the Salem, Illinois Hospital on November 13, 1953.

Virginia Wilson to Wed Jerry D. Plunkett, '53

Dean and Mrs. Curtis Laws Wilson of the Missouri School of Mines and Metallurgy at Rolla, Missouri, have announced the engagement of their only daughter, Miss Virginia Ruth Lee Wilson, to Jerry Dee Plunkett '53, of Dixon, Missouri. Miss Wilson, who was born in Butte, Montana, graduated from Rolla High School in 1949. Since her graduation from Oberlin College last June she has been teaching at Parma, Ohio.

Jerry, son of Mr. and Mrs. Charles A. Plunkett of Dixon, Missouri, graduated from Clinton High School in 1945, following which he entered the Air Force and served in Japan and the Far East. He was discharged in 1948 with the rank of staff sergeant.

He holds the bachelor of science degree in ceramic engineering from Missouri School of Mines and Metallurgy and is completing work this month for the degree of master of science. He will leave immediately for Massachusetts Institute of Technology where he has been awarded a research fellowship in ceramic engineering. He is a member of Keramos, Tau Beta Pi, and Phi Kappa Phi.

The wedding will take place at the Methodist Church in Rolla next June.

Cotner - Breska

Jerry E. Cotner '51 and Miss Lillian Breska of San Antonio, Texas were united in marriage on July 9, 1953. Jerry has just been discharged from the Air Force as a 2nd Lt.

MSM Alumni Association

November, 1953

OFFICERS

Term Exp.

President	Harry S. Pence '23	1118 Syndicate Bldg. St. Louis, Missouri	1956
Executive Vice-Pres. ..	Charles J. Potter '29	330 N. Carpenter	1956
And Vice-Pres. Areas 1, 2, 3		Indiana, Pa.	
Vice-Pres.	Horace H. Clark '15	7202 S. Shore Dr.	1953
Areas 4, 5, 6		Chicago 49, Ill.	
Vice-Pres.	Barney Nuell '21	3440 Wilshire Blvd.	1956
Areas 7, 8, 9		Los Angeles, Calif.	
Sec.-Treas.	Leon Hershkovitz '41	1300 Powell	1956
		Rolla, Mo.	

DIRECTORS AT LARGE

M. J. Kelly, '14	463 West Street	New York 14, N. Y. —	1956
J. W. Stephens, '47		Lee's Summit, Mo. —	1956
Rex Williams, '31	504 East 5th	Rolla, Mo. —	1956

Area No.	Area Director	States Embraced	Term Exp.
1	Enoch Needles '14	New England, N. Y., N. J., East Pa.,	1955
	55 Liberty St., New York, N. Y.	Wash. D. C., Md., Va. except Southwest Va.	
2	Claude Valerius '25	E. Tenn., E. Ky., N. C., S. C., La.,	1955
	443 Gladstone St., Shreveport, La.	Miss., Ala., Fla.	
3	S. Allan Stone '30	W. Va., W. Tenn., W. Ky., S. W. Va.,	1955
	P.O. Box 28, Fort Wayne, Ind.	W. Pa., Ohio, Indiana (except the Chicago Industrial Area)	
4	Melvin E. Nickel '38	N. Ill., Chicago, Wisc., Mich., N.	1954
	10601 South Leavitt Ave Chicago 43, Ill.	Ind., Minn.	
5	Paul Dowling '40	S. Ill., E. Mo., Arkansas	1955
	1400 So. 2nd St., St. Louis 4, Mo.		
6	H. E. Zoller '23	Iowa, W. Mo., Oklahoma, Kansas	1956
	Central Bldg., Wichita, Kansas		
7	S. H. Lloyd '47	Tex., Ariz., New Mexico	1955
	1900 Mellie Esperson Bldg., Houston Tex.		
8	William H. Burgin '40	Idaho, Mont., N. D., S. D., Wyoming,	1954
	1219 California St. Denver, Colo.	Colorado, Nev., Utah, Nebr.	
9	Barney Nuell '21	Wash., Oregon, California	1955
	3440 Wilshire Blvd., Los Angeles, Calif.		

1905

Ray E. Hoffman is residing at 500 North Street, Hannibal, Missouri. Ray is now retired.

1907

Walter I. Phillips will receive his mail at 1112 Market St., San Francisco 2, California.

1908

John H. Bowles will receive his mail at Lake Spring, Missouri.

1909

P. F. Michael is retired and living at 1407 East 20th Street, Tulsa, Oklahoma.

Edgar J. Wolf is Branch Manager of Underwriters Adjusting Company. He resides at 432 South 18th Street, Quincy, Illinois.

Marriages

Patterson - Fotelis

William E. Patterson '53, and Miss Elizabeth Fotelis of Newport, Rhode Island, were united in marriage in November of 1953. Bill is at present an Ensign in the US Navy at the Mare Island Naval Shipyard in California. The Pattersons are residing at 12 Tang Street, Vallejo, California.

Light - Galloway

Miss Margaret Ann Galloway of Washington, D. C., became the bride of Lt. Richard L. Light, class of '52, at the altar of the Battalion Chapel at Elmendorf Air Force Base at Anchorage, Alaska on Saturday, November 28, 1953.

Abbett - Bloomer

The marriage of Miss Ruth Virginia Bloomer of New York, daughter of the late Mr. and Mrs. Martin B. Bloomer, to Robert William Abbett, '27, also of New York, son of the late Mr. and Mrs. Phillip Allen Abbett, took place on October 2, 1953, in Christ Church, Methodist.

Clarence F. Heger, '49, Killed

Clarence Frank Heger '49, was killed instantly in an auto accident on December 23, 1953 enroute to St. Louis from Old Mexico where he has worked for the past two years with the American Smelting and Refining Company. His parents live at 7075 Tholozan, St. Louis, Missouri.

Send in Personals.

Alumni Personals

1910

John W. Bodman, director of research and technical advisor to the board of directors of Lever Brothers Company, retired from his position at the end of October. John is living at 18 Wedgemere Avenue, Winchester, Massachusetts.

1911

Ben H. Cody has retired from his position of Chief Research Engineer, Morenci Branch, Phelps - Dodge Corporation, Morenci, Arizona, and is now residing at 9902 Buena Vista Drive, Phoenix, Arizona.

Eva H. Greene is living at 1348 Tamarind, Hollywood 28, California.

1912

Edward D. Lynton gives his temporary address as 702 North Central Avenue, Glendale 3, Missouri. Edward is a consulting petroleum geologist and mining engineer. His permanent address is 422 Beloit Avenue, Berkeley 8, California.

1914

Julius C. Miller is living at 1826 Lexington Avenue, Owensboro, Kentucky. He is the secretary-treasurer of the Creek Drilling Company, Inc; partner of the Miller and Shiarella, Oil Producers and Drilling Contractors; and President of the J. C. Miller Oil Company.

1919

John M. Morris gives his residential address as 101 West 12th street, Rolla, Missouri. John's business address is Box 331, Rolla, Mo.

1920

Osher Goldsmith will receive his mail at 701 S. Chilton, Tyler, Texas.

1921

Russell W. Hunt is employed with the Southwest Lime Company. Russell gives his home address as 515 West Spring Street, Neosho, Missouri.

Richard L. Johnson can be reached at 2519 S. Harvard Cts., Apt. B., Tulsa, Okla.

1922

Roy O. Erickson has moved to 3108 Rural, Rockford, Illinois.

Howard Stanley Crawford is living at Guymon, Oklahoma.

1923

Neal Ham, who is employed by Ingersoll Rand Company, lives at 14 Ridgemoor Drive, Clayton, Mo.

George A. Zeller is residing at

7049 Ethel Ave., St. Louis 17, Missouri.

Wm. Miller Keeling is living at 2221 Towle Street, Falls City, Nebraska.

Paul E. Fischer has moved to Radmor Chester Road, Radmor, Pennsylvania.

1925

Joseph N. Harris writes that he has moved to 65 Somerset, Clearwater Beach, Florida.

1926

Roy E. Keim has moved to 9 East 45th Street, Kansas City, Missouri.

Charles L. Kitchen, ex '26, lives at 136 Highland, Calumet City, Illinois.

1927

Harry F. Bossert notifies that he is residing at 812 South Ivy Street, Arlington, Virginia. Harry is an electrical engineer with the Signal Corps, U. S. Army.

1928

Ruth V. Goodhue is living at 654 Salem Avenue, Rolla, Missouri. Mrs. Goodhue is employed by the U. S. Geological Survey in the Geodetic Unit at Rolla.

Paul A. Halasey gives his residential address as 5335 Auckland, North Hollywood, Calif.

1930

Ray Gast can be reached at 2300 Georgia St., Louisiana, Missouri. Ray's business affiliation is with GESCO, Inc., P. O. Box 364, Louisiana, Missouri.

Harry F. Kirkpatrick gives his military address as Lt. Col., 5736 Maryland Avenue, Falls Church, Virginia.

1931

Maurice E. Suhre is residing at 6 Vichy Road, Rolla, Mo. Maurice is working with the Concrete Materials, Inc.

Joseph E. Scally will receive his mail at 2110 S. Jamestown Avenue, Tulsa 5, Oklahoma. His business address is P. O. Box 1655, Tulsa 1, Oklahoma.

1932

Wm. E. Darnell has moved to 316 North 17th St., Mattoon, Illinois.

1933

Theodore B. Kaczmarek can be reached at General Delivery, Boulder City, Nevada.

J. J. Beinlich is living at 141 Temona Drive, Pittsburgh 24, Pennsylvania.

1934

James H. Galloway is residing at

1850 E. William, Decatur, Illinois. James works with A. E. Staley Mfg. Company.

Homor T. Ford has moved to 1025 E. H. Crump Blvd., Memphis 4, Tennessee.

Herbert A. Hoffman gives his residential address as 5 Theodore Street, Flat River, Mo.

1935

William H. McDill has moved to 4215 Muared Ave., Venice, California.

1937

S. R. Price, Jr. is living at 821 S. Beverly Lane, Arlington Heights, Illinois.

Theodore J. Bommer is a Captain in the US Army. He gives his military address as Capt., O-398261, 4th Ord. Bn. Hdq., APO 358, c/o P.M., San Francisco, California.

1939

Thomas J. Finley, Jr. is residing at 37 Tyler Lane, Webster Groves, Missouri.

Richard C. Brandt can be reached at 46 N. Henderson Ave., Cape Girardeau, Missouri.

Joseph W. Mooney, ex '39, was a campus visitor December 2. Joe is a Field Representative for the New York Life Insurance Company. He is residing at 7265 Northmoor Drive, University City 5, Missouri.

1940

Paul T. Berglund's mailing address is North Ardmore at Cedar, Villa Park, Illinois.

George B. Munroe, Jr. can be reached at 345 E. Argonne Drive, Kirkwood 22, Missouri. George is in the U. S. Air Force.

Harley W. Ladd is attending New York University. The Ladds are just back from a tour with the Corps of Engineers in Germany. They are residing at 164-A Donor Avenue, E. Paterson, N. J.

E. L. Olcott was a campus visitor December 11. He is residing at 4403 Woodland Terrace, Rt. 2, Falls Church, Virginia.

1941

Robert C. Wright gives his residential address as 18 Lafayette Ave., Hingham, Massachusetts.

Kenneth L. Hardine, Jr. can be reached at 1116 Bateman, Galesburg, Illinois.

1942

Charles R. Trotter has moved to Dexter, Missouri.

Melvin C. Flint is employed by the Attapulugus Minerals and Chemicals Corporation, 210 W. Wash-

ington Square, Philadelphia 6, Pennsylvania.

Arthur W. Wilson is residing at 536 E. McKinney, Ft. Wayne, Indiana.

Ralph L. Neubert can be reached at 319 4th Avenue, Columbia, Tennessee.

Frank E. Johnson's mailing address is 1878 S. Armstrong, Bartlesville, Oklahoma.

P. I. Hendricks will receive his mail General Delivery, c/o Phillips Petroleum Company, Rawlins, Wyoming.

F. M. Bloomberg is living at 1337 Overhill Avenue, Houston, Texas.

1943

Sherald F. Heneghan writes that he is now living at 140 S. Circle Drive, E. Alton, Illinois.

James G. Henderson gives his mailing address as U. S. Atomic Energy Commission, Ansonia Station, P. O. Box 30, New York 23, New York.

Emil T. Ruhle can be reached at 5300 W. Wisconsin, Milwaukee, Wisconsin.

R. K. Comann is now residing at 2816 Western Ave., Park Forest, Illinois. He is employed by the Container Corp. of America, 404 E. North Water St., Chicago, Illinois.

Joseph T. Adams is the Mid-Western District Manager of Nordberg Mfg. Co. in Milwaukee, Wisconsin. Joe is living at 7415 Campbell, Kansas City 10, Missouri.

C. H. Krummel, Jr. is residing at 2908 West 48th St., Los Angeles 43, California.

1944

Richard E. Wampler is residing at 159 Hall Stret, Spartansburg, South Carolina.

Robert O. Dietz gives his mailing address as Rt. 5, Shelbyville, Tennessee.

Richard F. Ollis, Jr. gives his mailing address as P. O. Box 884, Lima, Ohio. Richard is employed as Sales Engineer, Aircraft Application Engineering Department, Small Motor Division, Westinghouse Division, Westinghouse Electric Corporation, Lima, Ohio.

E. A. Weinell is Supt. of Construction with the Hall Supply Company at 1234 E. Eldorado, Decatur, Illinois. He is living at 1617

N. 43rd Street, E. St. Louis, Illinois.

C. A. Dick will receive his mail at 14520 N. W. 2nd Avenue, Miami, Florida.

1945

Allan W. Lindberg's mailing address is 7835 Grensfelder, St. Louis 24, Missouri.

Theodore P. Hentchel resides at 8503 Grantshire Lane, Affton 23, Missouri. Theodore is employed by Lewin-Mathes Company as an Electrical Engineer.

1946

Frederick R. Richardson gives his home address as 12 Community St., Pittsfield, Mass.

Joseph H. Renfrew can be reached at 31 Linden Park Street, Roxbury 20, Massachusetts.

1947

James H. Bock is residing at 505 N. Boyd St., Winter Garden, Florida.

Paul F. Carlton gives his home address as 3893 Limerick, Cincinnati 36, Ohio.

Donat B. Brice is residing at 1506 San Juan Avenue, San Jose 10, California.

Jack O. Herrmann is in the US Army serving in Australia.

George W. Walpert has become a member of the research department of Monsanto Chemical Company's Plastics Division in Texas City, Texas.

Arthur H. Fuldner, Jr. resides at 320 Fourth Street, San Francisco 7, California. Arthur was recently transferred by I-T-E and is now a sales engineer for that territory.

1948

F. O. Roderique writes that his new address is 220 S. 10th St., Ponca City, Oklahoma.

Terrell C. Claunch is living at 5047 5th Street, Port Arthur, Texas.

James L. Miller has moved to 131 Peach Street, Park Forest, Illinois.

Vincent Frick is living at 5905 Alto Mesa Way, San Diego, California.

Charles A. Ecklund is living at 429 Madison, Jefferson City, Missouri.

Jack A. James can be reached at 603 Westborough Place, Webster Groves 19, Missouri.

Ellsworth W. Hudgens has moved to 38 Maival Drive, Cedar Grove, New York.

A. B. Watts is residing at 1107

North 18th St., E. St. Louis, Illinois.

Robert J. Armstrong will receive his mail at RFD 2, Kenneth Square, Pennsylvania.

Theodore R. Howell is living at 1090 Lamonte Lane, Houston, Texas.

Charles W. Price has moved to 3605 Gunn Street, North Little Rock, Arkansas.

John Griessen III will receive his mail at Box 117, Portland, Texas.

Robert L. Day is residing at 921 Stratford, Rockford, Illinois.

1949

V. A. Chapman, Jr. gives his residential address as 575 Glenwood Drive, Paducah, Kentucky.

Elmer C. Hill is residing at 1076 Outer Drive, Schenectady, New York.

Fred E. Winters can be reached at Central Delivery, Baytown, Texas.

C. R. Knopp gives his residential address as 1117 W. South St., Benton, Arkansas.

John J. Ratcliff's home address is 6117 Adeline, St. Louis 10, Missouri.

E. J. Werner gives his address as 4410 Cottage Ave., Independence, Missouri.

Robert C. Hansen has moved to 709 W. Nevada, Urbana, Illinois.

Robert Milburn was a campus visitor November 17. Bob was recently discharged from service and was on his way home at 7119 Paseo Blvd., Kansas City, Missouri.

Judson M. Willis, Jr. has moved to 321 Benton, Sikeston, Missouri.

Alan A. Becker is living at 117 Forrest Hill, Jefferson City Missouri.

Roy B. Deason's home address is 559 East, Memphis, Tennessee.

Frederick C. Western writes that he is employed with the U. S. Gypsum Company as a Quarry Supt. at Sigurd, Utah. Fred is residing at 432 W. 4th North St., Richfield, Utah.

H. P. Schweder has moved to 2461 O'Neil Drive, Stamford, Ontario, Canada.

Lester J. Georger gives his home address as 8349 Branbury, Cincinnati 42, Ohio.

Elbert E. Comstock is residing at 1110 Bishop Ave., Rolla, Mo.

1950

Francis P. Hercules gives his home address as Rt. 2, Box 205-M., St. Charles, Mo. Walter J. Pen-

Alumni Personals

dracky can be reached at 152 California St., Oak Ridge, Tennessee.

Elbert H. Coleman, Jr. is living at 471 E. 19th St., Costa Mesa, California.

Charles F. Shukers has moved to Palace, Missouri.

Martin G. Hobelman is residing at 2905 Eldridge St., Easton, Pennsylvania.

Harold J. Brewer has moved to 5619 Cates Avenue, St. Louis 12, Missouri.

Robert T. Rose writes that during the past year and a half he has been employed by the Commonwealth Edison Company as a Construction Supervisor building a new generating station near Joliet, Illinois. Bob's home address is 1605 S. 4th Ave., Maywood, Illinois.

James P. Webster is now with the Pacent Engineering Corp., a manufacturer's representative and consulting engineering organization. Jim is district sales engineer covering the Philadelphia area, Baltimore and all of Virginia. He would appreciate hearing from any fellow-graduates at his business address P. O. Box 15, Narberth, Pennsylvania.

Robert L. McCoid has moved to 1225 Robin St., Venice, Illinois.

Robert W. Buel gives his new address as Box 2175, Rt. 6, Sappington 23, Missouri.

Vernon S. Severtson was a campus visitor November 23. Vernon is employed with the Eimco Corporation and his home address is 3319 S. Wallace, Chicago, Illinois.

Robert H. Steiner can be reached at 631 N. Benton, St. Charles, Missouri.

Joseph Charles Manetzke, Jr. is living at 1709 Red Bird Cove, Brentwood, Missouri.

Victor E. Mallrich will receive his mail at General Delivery, Buechel, Kentucky.

Pauline F. B. Schroeder is residing at 7235 W. 34th Ave., Wheat Ridge, Colorado.

Charles R. Hymes has moved to 291 S. 3rd East, American Fork, Utah.

Francis H. Hart is residing at 1025 Butler, Peoria, Illinois.

Morton Deutch is living at 8429 Richard Ave., University City, Mo. Morton is working at McDonnell Aircraft Corporation.

Wm. J. Ruprecht works for American Brake Shoe, National Bearing Division, 4930 Manchester, St. Louis, Mo. Bill lives at 1431 Odessa Drive, St. Louis County 15, Missouri.

Mike Vincent is living at 113 7th Avenue, West, Dickinson, North Dakota. He is employed by the Atlas Powder Company.

1951

Edwin R. Wallace is a petroleum engineer for the Texas Railroad Commission. Edwin's mailing address is Drawer Q, Refugio, Texas.

John W. Clark is Assistant Prof. of CE at the New Mexico College of Agriculture and Mechanical Arts. John is residing at 455 Palmer Road, Los Cruces, New Mexico.

James D. Cooper can be reached at 960 State St., Batesville, Arkansas.

S. Dean Shopper has moved to 415 E. Monroe, Mexico, Missouri.

Joe C. Roller is living at the Elm Apts., Elm St., Eureka, Kansas.

Walter B. Reidinger is residing at 3305a Texas, St. Louis, Missouri.

David R. Whitmer is living at 59 Hammond Rd., Belmont, Massachusetts. David gives his business connections as the Shell Oil Company, Products Pipe Line,

HELP US KEEP YOUR ADDRESS CURRENT

If your address has changed, complete and tear out this slip and mail it immediately to MSM Alumni Association, Rolla, Mo. Thanks.

Name

My new address is

Box 181, Waltham, Mass.

Wm. E. Brakensiek's home address is 2204 Stone St., Falls City, Nebraska.

Wm. B. Vose is a metallurgical trainee with the Gary Sheet & Tin Mill at Gary, Indiana. Bill's mailing address is 755 Lincoln St., Gary, Indiana.

Stan Altman is employed in the Research Development Lab. of Buick, Olds., Pontiac in Kansas City, Kansas. Stan is residing at 3615 Forest, Kansas City, Missouri.

Robert Becker is with the Dept. of Physics, University of Wisconsin, Madison 6, Wisconsin. Bob is living at 528 Wingra St., Madison, Wisconsin.

Robert L. Terry can be reached at 422 North 1st Street, Rockford, Illinois.

John E. Smith, who lives at 1102 Lynwood Drive, Rolla, Mo., is working with the USGS, Rolla, Missouri.

Eugene L. Sabo is living at 1842 Williams Rd., Columbus, Ohio. Eugene is employed by the Ohio Highway Department, Bridge Bureau, 65 E. Front St., Columbus, Ohio.

Charles T. Schweizer was on the campus on January 4, interviewing January graduates for his company, the Missouri Pacific Railroad Company. Charles is living at 2512 High School Drive, Brentwood 17, Missouri.

Melvin A. Buettner is an ensign in the US Navy and is presently employed as an Inspector of Ordnance with the New York Shipbuilding Corp. at Camden, New Jersey. Melvin will receive his mail at 108 Walnut Avenue, Merchantville, New Jersey.

Ralph B. Weiss has transferred from the University of Rochester to Pennsylvania State University, State College, Pennsylvania, where he is taking work toward his Master's degree in Geology.

Joseph P. Fris has moved to M-5, 103, Richland, Washington.

David U. Gillen, who is employed by the Anaconda Copper Mines, is residing at 945 17th Street, Butte, Montana.

Wm. E. Horst lives at 914 Moreland Avenue, Kirkwood 22, Missouri.

L. H. Borgerding was a campus visitor January 4. He is employed with the U.S.G.S., Box Z., Tallahassee, Florida.

Alumni Personals

Keith Wick was a campus visitor December 4. He is employed by the Denver Equipment Company. Keith will receive his mail at 1048 N. Leamington, Chicago 51, Illinois.

Elmer E. Thiele's home address is 4433 N. Wolcott, Chicago, Illinois. Elmer works for the Central Commercial Company, Northfield, Illinois.

Jerry E. Cotner was a campus visitor on January 5. Jerry has just been discharged from the Air Force as a 2nd Lt. He is considering returning to school to do additional studying under the G. I. Bill.

1952

Clarence M. Tarr, Jr., who is employed with the U. S. Steel Corporation as a management trainee, is residing at 5007 Dorchester Ave., Chicago 15, Illinois.

Harry W. Firman has moved to 437 Pleasant Hill Road, Concord, California.

Charles M. Heimbach is employed as a sales engineer with Cummins Engine Company in Columbus, Indiana. Charles lives at 2704 13th St., Columbus, Indiana.

Virginia F. Sabo is residing at 1842 Williams Rd., Columbus, Ohio. She is employed by the Jaeger Mach. Company, 550 Spring St., Columbus, Ohio.

Raymond Segelhorst gives his home address as South Broadway, Long Branch, New Jersey.

Paul H. Hausner gives his military address as Pvt., US55393885, Hq. & Svc. Co., 83rd Engr. Const. Bn., APO 215, c/o PM, New York,

New York. Paul is stationed in Landes De Bussac, France.

1953

Ali Erdogan Dinc is residing at 710 Riverside Drive, Apt. 4c, New York 31, New York.

Frank M. Almeter gives his address as Pvt., US 55282402, 98th Trans. Co. (Port), APO 255, c/o PM, New York, New York.

Dale Cotter is now in the US Army at Ft. Riley, Kansas. His wife, Gerry, is living at 113 Warwick St., Southeast, Minneapolis, Minnesota.

Ralph L. Kuster, Jr. is in the US Air Force (a pilot). Ralph will receive his mail at 6631 Hoffman Ave., St. Louis 9, Missouri.

Raymond F. Cathcart will receive his mail at P. O. Box 712, Freeport, Texas.

Dennis M. Montgomery can be reached at 716 West Market, Taylorville, Illinois.

2nd Lt. Robert P. Vienhage graduated Nov. 13 from the Engineer Officer Course at Ft. Belvoir, Va. The 12-week course, one of many conducted by the Engineer School for U. S. and Allied military personnel, trains junior officers in the basic duties and functions of engineer units. Bob entered the Army in August, 1953. Prior to entering service, Bob was an engineer with the Acme Foundry and Machine Co. His home address is 1001 E. Harrison, Springfield, Missouri.

Rayford S. Kruger is residing at 10 Cherry St., Hudson Falls, New York. Ray is a test engineer with General Electric Company.

Michael C. Rebel is now living at 2119 Eton SE, Albuquerque, New Mexico. Mike is employed with the Sandia Corporation.

MSM ALUMNI ASSOCIATION

ROLLA,

MISSOURI

TO

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