



Missouri S&T Magazine, Spring 1945

Miner Alumni Association

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MSM ALUMNUS

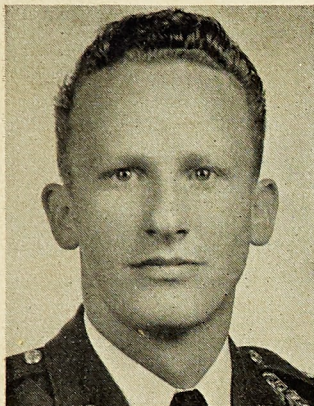
Missouri School of Mines and Metallurgy
ROLLA, MO.

VOLUME 19

SPRING, 1945

NUMBER 1

Memorial Scholarship Fund



CAPT. JOHN WITCIG RAYL '42

A few weeks later a similar suggestion came from Capt. Jack Witt '42, then in Paris, addressed to Dean Wilson, in which he suggested that a plaque or memorial of some kind be instituted in honor of those boys who gave their lives in the service "such as 'Red' Rayl." Capt. Witt was himself then wearing the Purple Heart and was returning to his unit in France after recovering from wounds received in Italy.

Capt. Burberry, who was president of the class of '42 during his senior year, felt that it would be impossible to take a vote of the class on the proposition; but in view of the numerous suggestions he expressed the opinion that the founding of the memorial was an excellent idea and that he was sure it would meet with approval of the rest of the class. He brought with him from Italy on a 30 day leave in the United States a draft of a letter which he sent to Dean Wilson, accompanied by a generous contribution from himself, with the request that the letter be reproduced and mailed to the class of '42 from Rolla as he did not have facilities for mailing it in Italy.

After the letter was written, Capt. Burberry received the news of the death of Lt. Melvin Ullrich, which announcement he included in a postscript on his letter addressed to the class of '42. In this letter Capt. Burberry suggested that since Capt. Rayl was the first member of the class to lose his life in service the fund be known as THE JOHN WITCIG RAYL MEMORIAL FUND.

Capt. John Rayl has a younger brother, Robert, who has filed application for admission to the School of Mines in the fall of 1945 to take the course also in mining engineering. Inasmuch as he would have to attend school under very much the same conditions as Capt. John Rayl attended school, which would mean he would have to finance himself altogether, Capt. Burberry nominated as a first recipient of the John Witcig Rayl Scholarship, John's brother, Bob Rayl, with any surplus left over to be used in aiding other worthy young men in securing an education.

Dean Wilson has assured Capt. Burberry that Bob Rayl's name would be the first considered by the Scholarship committee of the faculty when the Rayl Memorial scholarships are to be awarded.

Capt. R. Sidney Burberry '42, with a company of engineers somewhere in Italy, has taken the lead in establishing a memorial scholarship fund for those boys killed in action during the present war. The idea was perhaps first suggested by W. J. Lawler, with Aluminum Co. of America at New Kensington, Penna., member of the class of '42, who on hearing of the death of Capt. John Rayl '42, wrote suggesting that some sort of a memorial be started for boys like Capt. Rayl who were killed in action.

Board of Visitors Recommends Extensive Building Program at Rolla

The report of the Board of Visitors of the University of Missouri, made to the former Governor Forrest E. Donnell just before he left office, includes in it a recommendation for \$4,150,000 for the rebuilding of the campus of the School of Mines and Metallurgy.

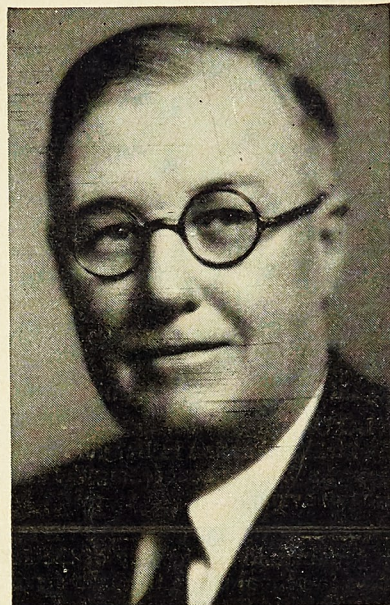
The Board, at the suggestion of the Governor, studied the entire group of higher educational institutions of Missouri and the two specialized training schools, the Missouri School for the Blind in St. Louis, and the Missouri School for the Deaf at Fulton. The report covered in addition to the University of Missouri at Columbia and the School of Mines, Northeast Missouri State Teachers College, Northwest Missouri State Teachers College, Central Missouri State Teachers College, Southeast Missouri State Teachers College, Southwest Missouri State Teachers College and Lincoln University.

The Board of Visitors recommended a forty million dollar bond issue for postwar use in rehabilitating the campuses of the above institutions, "to put them in position to render the service expected of them by the citizens of Missouri."

Thinking of the future growth of the various educational institutions, the Board of Visitors' report pointed out that there will undoubtedly be a great increase in enrollment when the present war is over and that these boys coming back will expect and demand that adequate facilities and efficient instruction be made immediately available to them. They will not be content with obsolete buildings and equipment.

For the School of Mines and Metallurgy, the Board of Visitors recommended a new heating and power plant and its distribution system; the completion of the second half of the Chemical Engineering building; dormitory facilities to provide housing for around four hundred students; a Mining and State Mining experiment station building; a geology building, a new metallurgy building; a ceramics building; a building to house the Missouri and the U.S. Geological Surveys; an auditorium; a mechanical and mechanics building; an infirmary; and an armory building.

To house the electrical engineering department, the Board of Visitors recommended the remodeling of the present U.S. Bureau of Mines building to take care of the electrical engineering department. The U. S. Bureau of Mines has completed the erection of one new laboratory unit on a tract of

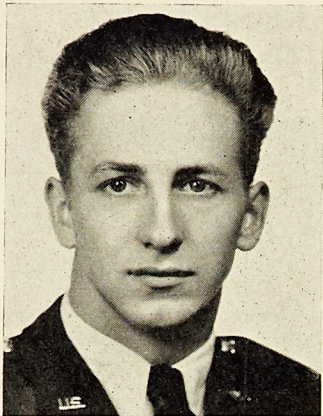


A. P. GREEN '35

(Continued on page 15)

Lt. Melvin C. Ullrich died in Belgium on Dec. 26 of wounds received on Christmas day. He was the son of Mrs. Carrie Ullrich of 6735 Broadway road, Alden, N.Y.

Lt. Ullrich was commissioned in the army engineers upon his graduation from MSM in May, 1942, and had served in Africa, Italy, and Holland as part of the Airborne Army.



LT. MELVIN C. ULLRICH '42

The second member of the class to lose his life in service was Lt. Melvin Charles Ullrich, whose home is in Alden, N.Y. Lt. Ullrich graduated with first honors, majoring in mining engineering. He, too, held the St. Louis section scholarship of the Woman's Auxiliary of the AIME. He also worked at outside employment practically all of the time he was in school. He served as president of Tau Beta Pi during his last semester in school and was vice-president and secretary of the SAME. He was a member of the Shamrock

Club. He borrowed money from the Jackling fund and had repaid fully at the time of his death.

Lt. Ullrich was seriously wounded on Christmas day of 1944 while in action in Belgium and died the next day of the wounds. Details concerning the action in which he was lost are not available.

The class of 1942 contained 188 members, the largest class to graduate in the history of the school. It was the senior class in school when the Japs struck at Pearl Harbor. The boys finished their education and many of them went at once into Military service, well over half of them being in either the Army or the Navy at this time. They have felt the full brunt of the war. Many of them have seen important action. Two of them have been killed, one is missing in action and five are wearing the Purple Heart for wounds received in action.

Dean Wilson has stated to Capt. Burberry that he heartily endorsed the memorial scholarship idea, and would recommend to President Middlebush and the Board of Curators the acceptance of the fund and inclusion in the next catalog a suitable description of the John Witcig Rayl Memorial Scholarship Fund, the description to include other names as agreed upon by the donors.

1st Lt. Fred F. Burgett '41 Wounded in Burma

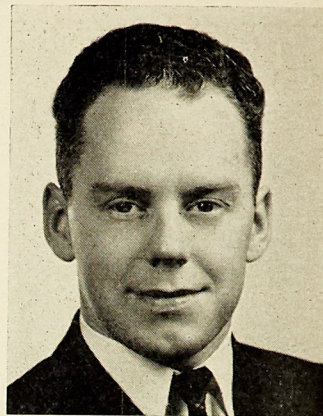
1st Lt. Fred F. Burgett suffered a broken leg when he was forced to bail out of his plane in Lashio, Burma. The time of the injuries being not specified in releases from the war department. Fred had flown 38 combat missions in the China-Burma-India theater and returned to the States in June. He was a fighter pilot, flying sorties and bomber escort. He has been a patient at the AAF Regional Station Hospital in Coral Gables, Fla., and later at the Mayo General Hospital, Galesburg, Ill. He is now stationed at the Army Air Forces Convalescent Hospital in Fort Thomas, Ky., where he has been sent for a period of rest, recreation and therapy.

Fred wears the Air Medal, CBI ribbon with two battle stars and the American theater ribbon.

Fred graduated in civil engineering in 1941 and was a member of Sigma Pi fraternity. He started work with a steel company at Pueblo, Colo., before entering the Air Corps. His home address is 805 West Green street, Decatur, Ill.

Class of '42 Establishing Memorial Fund for Members Killed in Service

The class of '42 acting on the initiative of Capt. Roland Sidney Burberry and the suggestions of several members of the class, has started circularizing the class of '42 to raise money for a memorial scholarship fund, to be known as the John Witcig Rayl Memorial Fund but to be established in honor of those members of the class who gave their lives in the service of their country.



CAPT. R. SIDNEY BURBERRY '42

Two members of the class have already been killed in action, the first being Capt. John Rayl, who was killed in action in France on Aug. 18, 1944; and the second, Lt. Melvin Charles Ullrich, who died on Dec. 26, 1944 of wounds received in Belgium on Christmas day of 1944.

Capt. Rayl's father died when he was a small child, his father being employed on a farm near Sedalia at that time. His mother was left with five small children to care for. She moved to Sedalia and there Capt. Rayl finished high school at the Smith-Cotton high school and came to the School of Mines in September of 1938. He was of forceful personality, and was at once popular and recognized as a leader on the campus. As Capt. Burberry pointed out in his letter to the class of '42, Capt. Rayl's mother could give him nothing but encouragement, which she gave to the limit. He was forced to finance himself all the way while in school. He worked as a student assistant in the geology department for two years and was given the Woman's Auxiliary scholarship of the AIME in 1939 and 1940. He also won one of the prizes in the Meramec Iron Works essay contest. He served as president of the class and also as president of the student chapter of the AIME. In his last year in school, he became a member of the Lambda Chi Alpha fraternity.

His death was a profound shock both on the campus and among the Alumni who knew him. According to a letter received from Lt. Col. Charles H. Schilling by Capt. Rayl's wife, Capt. Rayl was killed in action when he was caught in machine gun cross fire while leading some men on a reconnaissance mission.

While in school Capt. Rayl borrowed heavily from the Jackling Loan Fund to help finance his education. This had all been repaid at the time of his death except one hundred dollars. About six weeks after he had died his wife, Mrs. Dorothy Rayl of Jonesville, La., sent her check for the unpaid balance plus interest, thus as Capt. Burberry stated in his letter seeing "that even in death Johnny's obligations were fully met, as always."

Memorial Fund Contributions

Alumni and others than members of class of '42 have asked concerning the advisability of sending contributions to the Memorial Fund. Such contributions will be accepted and can be mailed to Dean Wilson.

MSM Alumnus

Issued quarterly, in the interest of the graduates and former students of the School of Mines and Metallurgy. Subscription price 50 cents, included in Alumni Dues.

Entered as second-class matter Oct. 7, 1926, at Post Office at Rolla, Mo., under the Act of March 3, 1879.

Officers of the Association

FRED C. SCHNEEBERGER '25 *President*
KARL F. HASSELMANN '25 *Vice-President*
HOWARD M. KATZ '13 *Secretary-Treasurer*

A Message from President Schneeberger

We are now proceeding to build an outstanding Alumni organization upon the foundation so nicely prepared by our outgoing administration. This story must then necessarily begin by acknowledging the results which your present administration inherits from the efforts of Carl G. Stifel, James L. Head, Gunnard E. Johnson, Howard Katz, the last previous officers of our Association. There is much evidence of fine cooperation in the past from Dean Wilson and Registrar Noel Hubbard in the direction of assistance on Alumni problems, publication of the ALUMNUS, etc., and this assistance is likewise acknowledged and appreciated.

Our Alumni mailing list is still very much incomplete. Work has already begun on its complete revision, since we know full well we can never merit complete support from our Alumni unless they receive our communications, publications, etc.

At this time, every alumnus, and every ex-student of MSM is considered a member of our Alumni association. We intend to send out communications, and the ALUMNUS to every alumnus or ex-student whose name appears on our mailing list for the remainder of this year. There is a dual obligation; part of which must call for your assistance, and the other part must call for our properly recording your name, address, and connection after you have provided us with this information. In other words, you start us off properly by **making sure we have your address** and we'll carry on from there.

In 1946 it is our plan to limit our mailing to those who have paid their 1946 dues. This is the fair thing to do since it is the money from those who have paid which makes the publication of the ALUMNUS possible. We shall, of course, in 1946 continue to send all communications and publications to all members of our armed forces regardless of dues returns.

We are a "going organization." We need no large amounts of money to keep going on our present basis. The principal expense, of course, is the publication of the ALUMNUS, which will cost us about \$1,500 for six issues this year. This includes printing, envelopes, and postage.

We are studying the plan of providing a female secretary to represent us in Rolla. This secretary could revise and keep up-to-date our mailing lists, and could carry on the correspondence necessary in connection with the Alumnus, etc.

Rather than a strong, high-pressure campaign to obtain 1000 paid members, we prefer a sensible, reasonable approach to the problem. Five dollars per year won't break anybody, yet many of our Alumni have not as yet paid their 1945 dues. Now what's the reason for this? There are several classes of reasons. The first one, perhaps, is the old-fashioned habit of postponement. (I just remember I haven't paid my AIME dues this year, and I'm reading this letter as I write it.) The second is probably motivated by a feeling of watchful waiting, such as "let's see whether this is another flash in the pan," etc. Then, there are those who have

a right to feel neglected; those who have not been receiving publications, etc. Well, I can't say I blame those in that class. Yet, the responsibility of getting on our list is yours. If you'll make sure you're in the clear on that point by once more sending us the dope—it's our baby from there on—or until you move again. If some alumnus you know crabs because he's not getting our publications, tell him to send his name in, or better still, send it in yourself.

Regardless of the above reasons for non-support, if any of them or any others apply to you, wouldn't you make one little bet of \$5.00 that we're going to show you something in the months to come? If you wouldn't, then it's up to us to show you, by results, that all of us represent a clean, wholesome, progressive effort to help our alumni, help our school.

I have had many conferences with Dean Wilson, members of the faculty; President Middlebush and Vice-President Cowan of the University of Missouri; members of the Board of Visitors of State educational institutions; Mr. Tom K. Smith, president of the Board of Curators, and others connected with our State educational system. I can report to you most sincerely that in no place have I found the slightest evidence, nor the slightest inclination to stifle, curtail or by-pass MSM. On the contrary, there is visible and tangible evidence that everybody throughout is most forcefully in favor of fully supporting the idea of a **Bigger and Better Missouri School of Mines and Metallurgy at Rolla, Phelps County, Missouri!** The tangible answer, of course, is covered elsewhere in this publication. Board of Curators approved, Board of Visitors approved, and University of Missouri approved Budget requests of the size and nature involved can't add up to a case of non-support! That's one ghost we can perhaps quit fighting! We can quit fighting it only, however, just so long as we, by the support of every one of us, continue to do every single thing we can to make sure our affairs are conducted in a manner which is aggressively cooperative in the direction of a bigger and better M S M.

As was indicated in the several communications sent to you, it is believed that the administration of our Alumni affairs should logically come under the supervision of properly organized and properly manned Committees. This matter now is being given full consideration by the Officers of your Association. We expect to announce the members of these committees in the next issue of MSM ALUMNUS.

Tentatively these committees are as follows: (Subject to a further check with the Advisory committee when formed.)

I. Advisory Committee

This committee will work with your officers in the planning and execution of all tasks and functions necessary to carry out the purposes for which our Association has been organized. It will appoint a sub-committee to study our Constitution, as well as those of other alumni associations, and outline revisions and improvements in our present Constitution for consideration of our Membership.

II. Finance, Endowment and Scholarship

Supervision of all financial affairs, coordination of various Alumni scholarships, loan and other funds, and the general inter-relationship between these funds and the promotion of scholarships, etc.

III. Public Relations

Responsibility for improving public relations as they effect the future of MSM. Scrutinize all legislation effecting our School and promote our welfare in connection with bond issues, etc.

IV. Membership

Responsibility for the organizing of new Sections and the sponsoring of plans for complete alumni participation in the support of alumni plans. Honorary and associate member-

(Continued on Page 16)

With the Local Sections

HEAD TABLE AT THE ROLLA MEETING



Left to right: Howard M. Katz '13, Secretary-Treasurer; Karl Hasselmann '25, Vice-President; Dean Curtis L. Wilson; Fred Schneeberger '25, President; Rex Williams '31, Chairman of Arrangements Committee; and John Schumann '16.

Rolla Section

In the first get-together since the homecoming of 1942, the Rolla section of the Alumni Association of the School of Mines and Metallurgy met with the faculty of the School at the Colonial Village, Saturday evening, Feb. 17. In the absence of Alfred Smith, chairman of the local section, Professor Rex Williams presided.

Dean Wilson spoke on the part the Alumni had played in the development of MSM through their reputation as engineers and through their work in directing outstanding high school graduates to the school for their training. He paid particular tribute to the men who have served as officers of the Association and devoted their time and personal funds toward the advancement of the school.

Dean Wilson also spoke on the forty million dollar bond issue as proposed by the Board of Visitors of the University of Missouri for the higher educational institutions of Missouri and pointed to it as a program for the Alumni of the various educational institutions concerned to undertake in bringing this before the people of the state. Four million dollars of this bond issue would be used for the rehabilitation of the MSM campus and would include thirteen new buildings. A. P. Green, President of the A. P. Green Fire Brick Company of Mexico, Mo., and an alumnus of the School of Mines is Chairman of the Board of Visitors.

Fred Schneeberger, president of the Alumni Association, also spoke on the importance of the bond issue and what it would mean to the School of Mines. President Schneeberger stressed the need of cooperation among the faculty, the alumni, and the officials of the University of Missouri. He paid particular tribute to Tom K. Smith, president of the Board of Curators and to President Middlebush for their interest and cooperation with reference to the school.

Karl Hasselmann, vice-president of the Association and president of the Salt Dome Oil Company at Houston, Tex., paid tribute to the School of Mines for what it had meant in his career, saying that he has consistently used what he learned in the school to get what he wanted in life. He, too, urged cooperation of all concerned for the good of the school.

Other speakers included Prof. F. E. Dennie, Dr. W. T. Schrenk, Dr. C. V. Mann, Dr. G. A. Muilenburg, Prof. J. B. Butler, Prof. John Willson, Prof. M. H. Cagg, Prof. Sam Lloyd, Prof. H. R. Hanley, Prof. F. H. Frame, John W. Scott, John Schumann and Prof. D. F. Walsh.

Impromptu Luncheon for Herb Mundt '21

Herb Mundt, Mrs. Mundt and their young daughter visited their old home in St. Louis recently. Herb has been located in the Panama Canal Zone for a number of years,

St. Louis Section

A meeting was held at Hotel DeSoto on Feb. 16. Thursday was one of the warmest Feb. 15ths in the history of St. Louis and Friday there was the heaviest snowfall in 5 years. This weather condition held attendance down to 45 but those that did attend were the "old reliables."

The meeting was honored by having two national officers of the Alumni association, namely, Fred C. Schneeberger, president, and Karl F. Hasselmann, vice-president. The members were enthused by their talks, outlining plans for the MSM Alumni association. That the talks were appreciated by all is borne out by the number who paid up their National Dues after the meeting was over. This is remarkable in view of the fact that neither Fred or Karl requested or implied that dues be paid at that time.

Election of officers was held with the following results:

M. H. Murray '35, Chairman.

M. N. Bedell '23, Vice-Chairman.

A. E. Barnard '27, Secretary-Treasurer.

C. H. Jennings '30 paid tribute to the memory of "Chief" Buehler, Maj. Willard Farrar, Prof. Bradley and the many members of the student body and Alumni who passed away recently.

One of the points strongly discussed was the bringing up to date of the section's mailing list, and the enthusiasm did not die with the closing of the meeting in that several members have sent in lists to date.

Following the meeting, twelve members paid national dues. These were:

M. P. Brazill '20, 1602 Locust St.

Walker E. Case '22, 3735 Manola Ave.

Dr. R. M. Courtney ex-'24, Chesterfield, Mo.

C. L. French '08, 104 S. Rock Hill Rd.

F. R. Loveridge '90, Sappington, Mo.

John E. McCarthy '44, 1114 S. Jefferson, Mexico, Mo.

W. L. Drake '29, 3569 Boswell.

R. A. Kelly '42, 1135 Partridge Ave., University City.

R. L. Youngbluth '39, 5328a Gladstone.

Sam Zook '23, 7240 Berrwood Dr.

Neal Ham '23, 715 Westwood Dr.

C. C. Bland ex-'15, 7338 Wellington.

where he is connected with the U.S. Engineers.

This was Herb's first visit to the States during the last five years, and he was anxious to see a few of his old classmates and friends from MSM.

Accordingly, a few telephone calls were placed, with the result that a luncheon was held for Herb at the Mark Twain Hotel on Dec. 29.

Those present, besides Herb, were as follows:

Meryl McCarthy '20.

Fred White '22.

Carl G. Sitfel '16.

Ben Nichols '19.

Wm. Taggart '20.

Dwight Moodie '24.

M. Brazill '20.

Oscar Gotsch '18.

Carl Gettler '20.

Fred Schneeberger '25.

Herb's classmates state that he looks the same as he did when he was a beardless sophomore in school. Not a gray hair in his head. He enjoys living in the Canal Zone, but just had to get up to St. Louis for a Christmas with snow—which latter was provided by arrangements by local alumni with the Weather Bureau. He had some interesting stories to tell about the manner in which the Big Ditch is being protected against possible enemy attack. Cigarettes are procurable in the Canal Zone, through the Army, of course.

Lt. Dwight Moodie, who is stationed in Brooklyn with the U.S. Engineers, and who attended this luncheon, was in St. Louis on leave. During this leave Dwight's mother passed away. While this was a saddening experience during his leave, it was nice that Dwight could spend some time with his mother before she passed on.

VIEW OF CALIFORNIA SECTION AT DINNER MEETING



Chicago Section

The Chicago Section of the MSM Alumni had their first dinner of the year on the evening of Jan. 12, 1945 at Huyler's Restaurant, 308 South Michigan avenue, Chicago, Ill.

There were 52 MSM Alumni present at the dinner. Mel Nickel presided and introduced the guests and speakers of the evening—Mr. Carl F. Stifel, National President of our Alumni Association, and Mr. F. C. Schneeberger, chairman of the MSM Alumni Action Committee and the new National president-elect.

Those present were: D. P. Hynes '08; R. H. B. Butler '09; A. N. Detweiler '10; R. H. Pietsch '20; Dr. C. J. Uthoff ex-'21; R. A. Lindgren '23; F. C. Mulford '23; P. E. Fischer '23; C. A. Walls ex-'24; J. M. Wasmund '24; A. Devereux '24; J. W. Scott '19; W. Godwin '25; R. R. Lusk '27; E. H. Cook '27; M. J. Paul '27; H. E. Gross '28; C. W. Johnson '29; E. R. Kirn '29; R. C. Miller '29; T. J. Dover '30; A. J. Reid '31; J. E. Scally '31; R. Monrie '32; W. H. Lenz '33; T. Dresser '33; G. A. Sellers '34; J. E. Harrod '35; D. R. Howerton '35; J. A. Mayer '35; W. R. Burgoyne '35; H. J. Pfeifer '36; H. R. Thornton '36; L. E. Grafft '37; F. C. Appleyard '37; W. P. Rummeler '38; C. L. Clayton '38; M. E. Nickel '38; S. R. Boutin '40; L. J. Riege '40; C. Verdi '40; J. Dusza '41; H. B. Bute '42; J. Smith Jr. '42; E. S. Bumps '43; T. J. Hoby '43; L. W. Higley '43; E. C. Keller '43; L. A. Sanders '44; W. J. Barnett '44.

Chicago Section has St. Pat's Celebration— Dinner and Dance

News has been received from E. H. Cook '27, secretary of the Chicago section, that the Chicago section met on March 17 at Huyler's Restaurant, 308 S. Michigan avenue, Chicago, for a St. Patrick's Day celebration. The celebration started with a reception in the Rose room at 7:00 p.m. followed by a dinner at 8:00 after which the Miners present engaged in dancing. M. E. Nickel '38, chairman of the section, in his letter to the Miners of that area urged their attendance with the Mrs. or their sweethearts to help the Miners pay tribute to the patron saint of all engineers, St. Patrick.

New York City Bi-monthly Luncheon

James L. Head writes that the idea of a bi-monthly luncheon in New York City seems to be taking hold and to offer the best solution to maintaining interest in Alumni affairs that they have yet tried in that area. The last one was held on Jan. 8 with Paul R. Cook '07, R. S. Douglas '26, and R. S. Mateer '44 putting in their appearances for the first time. The others present were: E. E. Squire ex-'02, G. A.

California Section

The California section met on Jan. 17 in an effort to revive the interest of the Western members in the Alumni Association. Nineteen members and their wives were present at the Melody Lane Sky Room, 5331 Wilshire boulevard, Los Angeles, according to a report by William E. Donaldson, secretary-treasurer.

The meeting was called in honor of Col. E. D. "Ted" Lynton '12, recently returned from eighteen months of service in North Africa, where he was technical representative for the Board of Economic Warfare. Col. Lynton gave a very interesting talk on rehabilitating and increasing production of the mines and oil wells in that area.

This meeting was somewhat impromptu and was called through the cooperation of various alumni members in this area, namely, Mrs. Eva Green, Paul Coaske, S. P. Lindau, and Barney Nudelman. Former Alumni Chairman, Robert Massey, was unable to participate due to illness, and Barney Nudelman acted as temporary chairman. An election of officers was held and Barney Nudelman was elected chairman, Mrs. Eva Hirdler Green, vice-chairman, and W. E. Donaldson, secretary-treasurer.

Tulsa Section

Howard Katz has received a letter from O. E. Stoner in regard to the Tulsa Section which is reproduced here:

"We have not had an Alumni get-together here since the war began, with the exception of one meeting called last year. Many of the younger men are in service and several of us old ones away. 'Spoof' Walker, 'Hank' Doennecke, Mayfield Huff, 'Jinks' Kaplan, A. B. Jewell, 'Curley' Zoller, Orin Maness, Kay Murphy, Bob Harper, Jerry Couch and Joe Wannemacher, that I can think of,—can be seen most any day. Jerry is recently assigned back from Michigan. Joe W. has left Shell and opened a consulting engineering office in the Daniels Bldg. My boy, Oscar, who finished his freshman year at MSM will finish V-12 at Ames this June.

"Please give my regards to my old friends on the campus and I hope the coming year will bring peace to our country and many boys back to the pursuit of their normal education and lives."

Easley '09, J. S. Stewart '10, J. L. Head '16, H. R. Berry '25, G. C. Cunningham '25, E. A. Crawford '29, J. S. LeGrand '38 and H. S. McQueen, former assistant state geologist.

The next luncheon will be held at the Mining Club on March 12.

Lt. George Fort '40 Returns from India



Lt. George Fort, center, with crew, in front of B-29 plane in India

Lt. George Fort spent the holiday season in Rolla with his parents having just returned from India where he has been flight engineer on one of the B-29s operating out of that area over Japan. George was one of a picked crew sent with a few of the 29s back to the States after operations in the India theater.

This group of men pioneered the B-29 airplane in that area under very unusual circumstances. George left last April on the first group of B-29s that went overseas. The B-29s first flew with a load over the hump out of India into China and they would then go on into Japan and drop the bombs.

George states that it was not so much the enemy that bothered them as the hazards of flying as the B-29s were able to take care of the Jap fighters unless they were very greatly outnumbered.

His plane was never struck by flak or by enemy gun-fire at any time but on returning from the raid on Samatra his plane was forced down into the ocean due to hazards of flying. His experiences on this trip were given in a previous issue in the Alumni magazine.

George will be stationed in the United States for the next few months, his address being Box 247, Roswell Army Air Field, Roswell, New Mexico.

Campus Veterans Organization Formed

Veterans of World War II who have returned to the campus for their education following discharges from the Army and Navy have formed the "Campus Veterans Association." At present there are a total of eighteen veterans on the campus. The organization is designed to give the returning veterans an opportunity for comradeship and for mutual helpfulness in their relations to school and community.

The officers of the organization are: Commander—M. J. McEnnis; Vice-Commander—James R. Snowden; Secretary—B. J. Sparlin; Treasurer—John Masterson; Service Officer—Carl Finley; Chaplain—Andrew Swantner; Sergeant-at-Arms—Howard M. Fowler.

Prof. E. A. Goodhue is faculty adviser.

Willett Kanehl Killed in Plane Accident

Word has been received that Lt. Willett Kanehl was killed in an airplane accident while stationed at Dodge City, Kans., as an officer student and receiving transition training in the flying of the B-26 airplane. The accident occurred on Sept. 4, 1944. His plane crash-landed and burned near the town of Mineola, Kans. Willett was a member of Sigma Pi fraternity and was here one year.

Homecoming

Considerable discussion concerning homecoming has grown out of two suggestions made last fall concerning the next homecoming. Dean Wilson in a letter to R. L. Head, to be presented at the meeting of the Washington section of the Alumni association, suggested that the first major homecoming be set for the fall of 1946, the 75th anniversary of the School of Mines and that the homecoming be combined with the Diamond Jubilee of the school. Hans Schmoldt at about the same time suggested that the first homecoming be combined with the first St. Pat's to be held after the close of the war when the boys can be back once more.

These suggestions were transmitted in President Carl Stifel's annual letter to the Alumni and considerable discussion has resulted from this letter. Many of the younger Alumni wish to see the homecoming and the St. Pat's held together, while the older alumni tend to believe that the homecoming should be held at the traditional time in the fall and in conjunction with the Diamond Jubilee.

Prof. Rex Williams, chairman of the Homecoming committee on the campus, has reviewed the numerous suggestions that have come in accompanying the votes for the Alumni officers, and expresses as his opinion that there was enough interest to justify both a major homecoming event in connection with the Diamond Jubilee and an outstanding St. Patrick's celebration to be held just as soon as war conditions would permit. Prof. Williams stated that he did not believe homecoming should be held along with the St. Patrick's, as many of the older alumni would not be interested and would probably not come. He stated that he saw no reason why there should not be both the traditional homecoming and an extraordinary celebration in connection with the first St. Patrick's celebration that could be held after the war.

Prof. Williams doubted that there could be a homecoming next fall with the war situation as it is, but stated that the matter would be viewed with an open mind and decision made in connection with the war picture as next fall approaches.

Both Dean Wilson and Prof. Williams will appreciate further ideas and suggestions on the part of the Alumni for, as they both stated in discussing the matter, it is really a problem for the Alumni as a whole to decide, as it is going to be their big party.

Life Members

Below is a list of alumni who have become life members of the Association as shown by the treasurer's records. It is desired to get this list as complete as possible. If any alumni have paid life membership dues and their names are not shown on the list below, they are asked to notify the treasurer, Howard M. Katz, at once.

Barton, Joseph C. '17.	Halasey, Francis R. '22.
Brown, John S. '17.	Hammer, Bernard E. '22.
Claypool, William M. '84.	Harbison, Lynn '23.
Coffman, W. A. '25.	Hoyle, Charles ex-'03.
Vocational (Oil Engr.)	Jackling, Daniel C. '92.
Compton, James C. '09.	Kline, Duane M. '12.
Conrads, Ralph A. '04.	Lapee, Roland J. '22.
Cook, Paul R. '07.	Mazany, Mark S. '32.
Cooke, T. Grant ex-'08.	Miller, John C. '16.
Copeland, Durward '15.	Murphy, John A. '13.
De Cousser, Kurt H. '22.	Reilly, John H. '17.
DeWaters, Roy H. '09.	Seifert, Charles G. ex-'01.
Dwyer, Edward P. '95.	Shire, Leo E. '25.
Easley, George A. '09.	Stifel, Carl G. '16.
Forgotson, James M. '22.	Swift, Roy E. '34.
Frame, Wayne S. '23.	Terrell, Arthur D. '98.
Gregory, James A. '05.	Valerius, M. M. '16.
Grim, C. James '30.	Webster, Royal S. '03.
Grine, Harry A. '04.	Webster, Vance H. '23.

Twelve Alumni with Western Cartridge Company

John J. O'Neill '40 visited the campus on Feb. 19 to interview seniors who will graduate in May for employment with Western Cartridge Company. John is with the research department of this company. He reports that there are twelve Miners with this concern. They are: Frank Elfred '20; Wade Waters '39; D. Timbermann '40; Russell Youngbluth '39; Carl Zvanut '41; William Shivelbine '44; Milton Herzog '33; Bob Cunningham '34; Herb Bock '36; Hugh Tobin '34; and John Berwick '39.

Lieutenants Eugene Boyt and Robert Silhavy Write from Japanese Prison Camp

Through Mrs. Margaret Boyt of Drumright, Okla., mother of Lt. Eugene P. Boyt, it has been learned that Lt. Robert Silhavy '41 and Lt. Eugene Boyt '41 who were captured by the Japanese in the fall of Bataan are still in good health. Both the boys are urgently interested in receiving mail from their school friends. In his letter of April 24, Eugene sent special greetings to Frank Mentz, Chris Wattenburger and the Tucker twins. Information as to the proper forms and procedure for writing these boys can be obtained from the American Red Cross. The boys particularly want pictures but there should be no writing on the pictures of any kind. Mrs. Boyt states that in the case of any pictures she sends to them, she removes the identification numbers which are sometimes written on the back in pencil.

Mrs. Boyt writes that the Jap regulations have loosened somewhat and it is now possible to communicate with prisoners of war in a much more satisfactory manner.

The addresses of the boys are: Lt. Eugene P. Boyt or Lt. Robert Silhavy, Zentsuji Prison Camp, Island of Shikoku, Japan. They should be addressed by name, followed by: "Prisoner of War, Zentsuji Prison Camp, Shikoku Island, Japan, via New York, New York."

In the upper left hand corner of the envelope should be placed "Prisoner of War Mail." In the upper right hand corner should be placed "Postage Free."

Maurice H. C. McClellan '28 Dies

Word has been received of the death of Maurice H. C. McClellan which occurred at his home at Shawnee, Okla. on Jan. 25. Mr. McClellan graduated from MSM in 1928 with a degree of bachelor of science in Mining engineering. He worked for several years in South America, being at one time a geologist with the Gulf Production Company at Maracaibo, Venezuela. Later returning to the United States, he was active in the development of the oil fields of the southwest. He was credited with opening the Hunton oil production near Earlsboro, Okla. in 1940. He has been a resident of Shawnee, Okla. since 1927. He was buried at the Fairview cemetery in Shawnee.

Mr. McClellan is survived by his widow, Mrs. Louisa McClellan living at the home at 21 East Severn, Shawnee and by one son, John Maurice McClellan.

Lt. Stanley F. Johnson ex-'46 Deccrated

1st Lt. Stanley F. Johnson, navigator of the B-17 flying fortress "Caroline Mine," of the 96th Bomb Group has been awarded the Distinguished Flying Cross for extraordinary achievement while participating in Eighth Air Force bombing attacks on vital German industrial targets, and on Nazi air fields, supply dumps and gun emplacements in support of Allied ground forces advancing on the Continent. He has also been awarded the Air Medal with Four Oak Clusters.

Stanley has flown over 30,000 combat miles against the Nazis and taken part in bombing attacks on such targets as the chemical works at Ludwigshaven, oil plants at Brux, a tank factory at Bremen, and the ball-bearing works at Schweinfurt.

Stanley completed his quota of 33 missions last October and came home on a 27 day furlough. He is now stationed at Ellington Field in Texas. He plans to return to Rolla and complete his education after the war.

Lt. Leo Spinner '43 Commended in "Stars and Stripes"

Lt. Leo Spinner, who graduated in civil engineering in 1943 was commended by the men of his company in an article appearing in the "Stars and Stripes" for Feb. 14, 1945. The article reads as follows:

WE NOMINATE

Most G.I.'s who write to B-Bag have a bitch to make concerning their officers, but none of them ever think of praising an individual officer. Your editorial of Jan. 13 described the ideal officer. Here is our candidate for the perfect officer.

He is Lt. Leo B. Spinner, commanding the second Platoon, Co. A., 204th Combat Engrs. In the Army 26 months, he is 25 years old, married, graduate of Missouri School of Mines, and the Army School for Engineers at Harvard.

We have crossed three countries and expect to enter another with him. He has all the qualifications—cool, calm and courageous. Under fire he will never ask a man to do what he himself would not undertake.

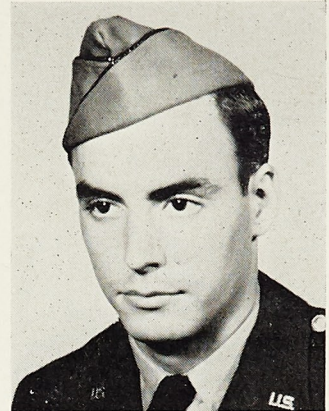
He likes to live with his men, and the men are glad to live with him. He does his share of the work too. He knows when to remember his rank, and when to forget it, always acting as an officer, but never taking advantage.

Lt. Spinner is always open to suggestions and realizes it takes the help of all to make the perfect team. After a job is well done, he will give credit where due. If anything goes wrong and a man wants to bitch, he'll let a man speak his piece, freely, without prejudice.

His men have complete confidence in him, and he in them; no job is too big with him as a leader.

Men of Second Platoon, Co. A, 204th Combat Engrs.

Leo was a member of the "M" club, the Engineers club and Theta Tau.



Leonard S. Copelin '13 Dies

Leonard S. Copelin, prominent oil operator, died in the Queen of the Angels Hospital in Hollywood, Calif., early in March of 1945, according to word received from Barney Nudelmann '21.

"Cope" graduated in Mining and was prominently associated for many years with oil development in southern California. He was long active in the Alumni association affairs having attended the recent meeting of the California section of the Alumni association. While he was in good spirits, he was apparently in failing health at the time. He joined the Association in 1924 and was chairman of the California section in 1928. He was a member of the Kappa Alpha fraternity.

Mr. Copelin's home was at 2244 Alcyona drive, Hollywood. He was buried in Calvary cemetery.

Professor G. O. Ranes Resigns

George O. Ranes, associate professor of electrical engineering at Missouri School of Mines has accepted a position with the Sperry Gyroscope Company, Inc., of Long Island, N.Y., as product engineer.

Prof. Ranes has specialized in the communications branch of Electrical engineering at the School of Mines and has assisted materially in building up well equipped laboratories and excellent courses in ultra-high frequency and electronics at Missouri School of Mines.

Lt. Col. Elliot H. Reed '36 in Charge of Gulfport Air Field



Lt. Col. Elliot H. Reed whose address is 1134 W. Culver street, Phoenix, Ariz., has been named director of operations and training at the Gulfport Army Air Field, Miss. Col. Reed served for 15 months in the Southwest Pacific area and wears the distinguished Flying Cross and the Soldier's Medal. He served as squadron commander and group executive in the Southwest Pacific theater and participated in 12 major missions against the enemy as a pilot and observer with the 22nd Bomber group in the Pacific.

Elliot graduated from MSM with the class of '36 and immediately entered the Air Force. Col. and Mrs. Reed and their young daughter are residing at Handsboro, Miss., near Gulfport.

Miss Maurita Estes Engaged to

Lt. Cornelius F. Stueck '43

The engagement of Miss Maurita Estes, daughter of Mr. and Mrs. Welborn Estes, 7104 Amherst avenue, University City, to Lt. Cornelius F. Stueck, overseas with the Army Engineers Corps, was announced recently.

The news was told by means of a phonograph record, made by Miss Estes and her sister at a luncheon given by Mrs. Estes at the Missouri Athletic Club.

Lt. Stueck is a member of Kappa Sigma fraternity.

Mike A. Ledford '26 Returns from India

Mike A. Ledford who has been in India as a captain of the Engineers and in charge of a pipe line company, which constructed a 180-mile section of a six-inch gasoline line into the interior of that area has returned to the United States and received honorable discharge from the Army. Mike contracted malaria while on duty in India. He is now back at Houston associated with the Houston Drilling Corp.

Mike was formerly associated with K. F. Hasselmann '25 at the Salt Dome Oil Corporation before becoming first vice-president and then president of the Houston Drilling Corporation.

Mike will be remembered on the campus as one of the outstanding football players of MSM. He served as vice-president of his class and was a member of Sigma Nu. He is married now and has three children. His home address is Route 12, Box 752, Houston, Tex., and his business address is 1331 Neils Esperson Bldg., Houston.

Lt. James E. Stover ex-'45 Missing in Action

Word has been received by C. E. Stover '24 and Mrs. Stover, 33 F street N.W., Miami, Okla., that their son James E. Stover, a 2nd lieutenant and pilot on a P-47 Thunderbolt has been missing in action since Dec. 4. Jim has seen extensive action in the fighting around Metz, France, and Aachen, Germany and recently his parents have received a congratulatory personal letter from Maj. Gen. E. R. Quesado, advising that Jim, as a member of the Ninth Air Force was awarded the Air Medal, "for meritorious achievement while participating in missions over enemy-occupied territory. In all those missions, James displayed courage and skill which reflected high credit upon himself and the armed forces of his country."

Jim enlisted on Dec. 6, 1942, while a student at MSM and received his pre-flight training in San Antonio, Tex. He was first stationed at Brüning, Nebr. and was later transferred to England and transferred to France and later to Belgium where he was serving at the time he was reported missing.

In school, Jim was a member of the Kappa Alpha fraternity and was president of his class. He served on the football squad for two years. His father C. E. Stover graduated from MSM in 1924.

Ens. Alfred S. Itterman '44 Wounded in Action

Ens. Alfred S. Itterman is perhaps the first member of that class who entered the armed forces to be wounded and returned home for recuperation. Al finished his work in January of 1944 and immediately entered the Navy and was graduated from the midshipman school on May 31, 1944. He left the States in July on the USS LSM 20 and went "straight over" and made the Philippine invasion landing on Leyte Island on Oct. 20.

Al states that they didn't have much trouble for the first few days. Then the air attacks started and they were in for a pretty rough time for awhile. While his ship was not in the big battle of the Philippines on Oct. 24, he could see from his location alongside the island flashes of the big naval guns in the fight. In the air attacks which followed, Al's own ship was sunk as a result of air action. He was in the water for only a few minutes, when another ship alongside picked him up.

He was wounded in the explosion that sunk the ship and it took him 16 hours to get to a hospital ship. Al was evacuated on the hospital ship and taken to a base hospital and was there two days when he was flown back to the United States.

He arrived at his home in Granite City, Ill., on Dec. 19, being there for the Christmas holidays as a part of a 30 day leave. During the leave, Al was married on Jan. 7, 1945 in Granite City, Ill., to Marie E. Gattung. He left on Jan. 28 for Little Creek, Va., for reassignment.

On his way back to the United States, Al saw James Glover '43 in Pearl Harbor, who was on his way out to the scene of action in the Pacific.

Ens. Itterman's home address is 2164 Cleveland Blvd., Granite City, Ill.

The Stratigraphy of Some Lower Ordovician Formation of the Ozark Uplift

A bulletin by James S. Cullison, School of Mines and Metallurgy, University of Missouri, Bull. Tech. Ser., Vol. XV, No. 2, June 1944, 112 pages, 12 halftone plates, 12 colotype plates and 10 folded line plates in pocket. (Mailed free upon request.)

This bulletin describes the stratigraphic relationship and faunal content of a series of strata formerly known as the Jefferson City Cotter and Powell formations. The author has subdivided the lower part of the section into two separate formations and changed the status of the Jefferson City from a formation to a group.

Several new genera and more than 50 new species are described and the known range of each species is indicated.

Capt. Leon Hershkowitz '41 Relates Experiences with Japs

Capt. Leon Hershkowitz, who visited the campus on Jan. 22, after spending almost three years in the Pacific, related his experiences in the American army's first offensive encounter with the Japanese.

Capt. Hershkowitz left Brooklyn on Jan. 23, 1942, going in the first convoy from the United States to Australia. It took him 38 days to make the trip to Australia. German submarines were working on the East coast at that time, but the convoy got through without an encounter.

In Australia Capt. Hershkowitz' company was assigned the job of building the first air strip at Milne Bay in Papua. Their first orders read to build an air strip at Buna, in New Guinea; but about that time the Japs came in and took full possession of Buna and nobody changed the orders. So far as they knew, they were still headed for Buna. Finally, however, the orders were changed and they were sent to Milne Bay to build an air strip there. They took the first Liberty boat to go to Milne Bay from Northern Australia. The water was so deep at the edge of the island that they tied their ships to coconut tree trunks alongside of the island.

The Americans had cleared the air strip, some three hundred feet wide and five hundred feet long, and had started the rough grading. Then the Japs decided to come to Milne Bay, also. The Americans had been bombed from the air quite a bit as the Japs then had pretty complete control of the air. The Japs had been expected at Milne Bay but they came sooner than expected; and according to a map which was later discovered on the body of the ranking Japanese officer, they planned to come directly into the bay and land at the same place that the Americans landed. Through some mistake they landed some seven miles up the island at the end of a jungle trail leading to the air strip. The Japanese intelligence service was way off in their calculations of the terrain in that locality.

Their landing some seven miles away from Gili-Gili, where the American army was stationed, gave Capt. Hershkowitz' company some time to prepare for the battle. There were two companies of Americans; each had three machine guns and each had a half track and each half track had two air-cooled 30 caliber machine guns and a 50 caliber.

The only road from the place of the Jap landing to Gili-Gili led directly through into the air strip where the Americans were working. The Japs tried to follow this road and their tanks bogged down about a mile from the air strip. Quite a number of the Japs struggled through the jungle to the air strip, but, as Capt. Hershkowitz expressed it, that was as far as they got.

Coming out of the dense jungle upon this wide flat opening, the Japs were amazed. One of the officers, who spoke some English, advanced into the air strip saying, "We come, you go." This had been the Japs' previous method of entering and taking possession of the villages from the natives. The Americans had decided that they were not going any farther.

The Japs made a mass charge right down the road leading to the air strip and the Americans concentrated their fire power on that spot. The Japs faded back and tried it again, once more in mass formation. This went on for two days and two nights and then the Japs pulled out completely.

Right at the air strip the Americans counted approximately 200 killed and afterward they found several hundred others buried in shallow graves back in the jungle. It was estimated that between one thousand and fifteen hundred Japs made the invasion and the Americans had approximately 200 men. Only three Americans were killed in that encounter.

Capt. Hershkowitz and his company finished the air strip. However, in their best gravel bar the Japs had chosen to bury their dead; and ever so often as the carry-alls scooped

(Continued on page 11, col. 2)

L. R. Hinken '40 Establishes Loan Fund



Courtesy St. Louis Post-Dispatch

Lawrence R. Hinken, son of Mr. and Mrs. W. C. Hinken of Green Ridge, Mo., a graduate of the Missouri School of Mines and Metallurgy, has established a loan fund at the School of Mines and Metallurgy to assist deserving juniors and seniors working toward the degree of bachelor of science in Chemical Engineering. The fund has been accepted by the Board of Curators of the University of Missouri and it is to be known as the Lawrence R. Hinken Loan Fund.

Hinken graduated from the School of Mines and Metallurgy with honors on May 29, 1940 and is now employed as a chemical engineer by Universal Oil Products Company, his home address being 66 Third avenue, Villas, Texas City, Tex. While in school he was assisted in meeting his own expenses by the D. C. Jackling Loan Fund established by D. C. Jackling, who graduated from the School of Mines and Metallurgy in 1892 and who also majored in chemistry. The Hinken fund is to be used as a revolving fund and will carry interest at the rate of 4% per annum.

Dr. Grawe Honored

Dr. O. R. Grawe, associate professor of mineralogy at the School of Mines and Metallurgy, has been elected a fellow of the Geological Society of America at the annual meeting of the society held in New York City on Dec. 28, 1944, according to word received from the secretary, H. R. Aldrich.

Election to fellowship in this society is one of the outstanding recognitions accorded in the geological profession, and is a recognition by the profession of leadership in this field and standing in the profession.

Dr. Grawe came to the School of Mines in 1928 and has carried on extensive research work in addition to his teaching duties since coming here. He is the author of several publications relating to the geological studies he has carried on.

Bill Decker '38 in 82nd Airborne Division in Major Role Checking Nazi Counteroffensive

It was recently disclosed that the 82nd Airborne Division has done its part in checking the enemy and in saving the American armies from being cut in two in the latest Nazi counteroffensive. Bill Decker '38 is a captain in this division.

The 82nd Airborne Division had made landings in Anzio, Sicily, Salerno, and had spearheaded in Normandy and Holland. At the time of the breakthrough the 82nd, with its companion, the 101st Airborne Division, were resting many miles from the front, but on Christmas day they were rushed forward to help handle the situation. The 82nd was thrown into line as elite infantry on the north flank and fought savagely around Stumont and Stavelot, cutting off attacks of the first and 12th SS German Panzer divisions.

It is interesting to note that the 82nd Division has been fighting in ten different countries. During one of these battles, Bill received a slight injury, but recovered in a short time. Recently, the Division has received a citation from Gen. Montgomery.

Bill graduated from MSM with a degree in civil engineering. He was a member of the Rifle team while in school and was commissioned 2nd lieutenant upon graduation.

Prof. E. G. Harris Dies

Prof. E. G. Harris, professor emeritus of civil engineering at the School of Mines and Metallurgy, and for fifty-three years a member of the faculty of the school, died at his home in Rolla on Dec. 21 at the age of eighty-three years.

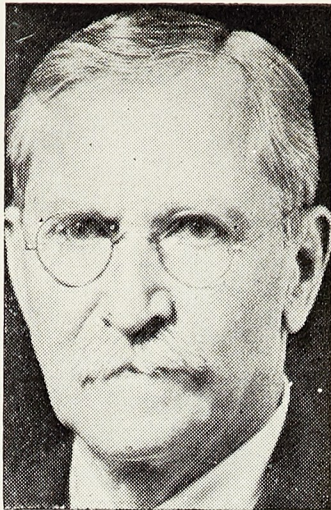
Born June 27, 1861, near Spartansburg, South Carolina, Prof. Harris graduated from the University of Virginia in civil engineering in 1882 and became internationally known in that field. At the time of his graduation, many railroads were under construction in the United States, and Prof. Harris played a prominent part in surveying routes for many of these lines in the south and southwest. He was in charge of the survey for the location of the Missouri Pacific Railroad from Van Buren, Ark., to connect with the lines in Kansas, which lines have now been in operation for over half a century.

Prof. Harris later worked for the Cotton Belt Railroad and was in charge of the construction of the bridge for this line over the Arkansas river at Rob Roy, near Pine Bluff. While watching and studying the process of blowing out the sand by the use of compressed air for the foundations of this bridge, Prof. Harris discovered the principle involved in the "Air-Lift-Pump." His study of compressed air as a result of this work finally led to the publication of a book entitled "Compressed Air," which has been widely used as a textbook in that field ever since. Prof. Harris filed application for a patent on the Air-Lift-Pump which was twice rejected by the patent office over the statement that it was contrary to the law of physics and would not work. However, Prof. Harris designed and laid out the first water works and sewage systems in Rolla, and this type of pump was used on the deep-well for Rolla's water supply for several decades. Later he developed a Return Air Pump that was largely used until the development of the electrically driven centrifugal pump. The Return Air Pump is still used, however, in pumping gritty material such as silt, sand, etc. One prominent installation of this pump was for the supply of water for New York City.

For several years Prof. Harris practiced his profession of Civil engineering out of Little Rock, Ark., and explored and surveyed much of the great timber areas in the St. Francis Swamp region of that state, together with some of the earlier highways in Arkansas.

Prof. Harris joined the faculty of the School of Mines and Metallurgy in the fall of 1891 as director and professor of Civil engineering. Two years later he gave up his directorship and devoted all of his time to teaching. Many of his students attained world-wide distinction. One of his students was D. C. Jackling, who revolutionized copper mining and was attributed with the attainment of doubling the world's supply of copper.

Prof. Harris continued his research work while teaching and developed ideas revolutionary in the field of Civil engineering which attracted international attention. He published the first written treatise on the centrifugal pumps which now lift a greater volume of water than all other pumps put together. He developed a formula for the computation of the flow of water in uniform channels that covered one page of a textbook, in the form of a chart, that replaced 200 pages of tables formerly used for this same pur-



Courtesy St. Louis Post-Dispatch

Lucy Wortham James Scholarship Awarded

At a convocation held in the auditorium of Parker Hall at the Missouri School of Mines, Dean Curtis L. Wilson awarded, on Dec. 20, the Lucy Wortham James scholarships to six students at MSM. The boys who received the award are Robert G. Barrick of Sedalia, Mo., Charles W. Bennett of University City, Mo., Thomas D. Daniels of Butler, Mo., Eugene E. DeWoody of Mountain View, Mo., Ernest G. Gauden of Cameron, Mo., and Robert E. Johnk of Alton, Ill.

The Lucy Wortham James scholarship was made available by the trustees of the estate of the late Lucy Wortham James, a member of the pioneer family which established and for many years operated the Meramec Iron Works at Meramec Springs, near St. James, Mo. Members of this family sent several young men to the School of Mines at their expense to train them for employment at the Meramec Iron Works.

The trustees, through Mr. Ralph Hayes, expressed a desire to resume this financial aid to worthy students of the School of Mines in the form of Memorial Scholarships. The recipients of the Scholarships are chosen by a special faculty committee under the chairmanship of Dean Curtis L. Wilson of the Missouri School of Mines.

Prof. Harris considered this formula the outstanding technological achievement of his life.

Prof. Harris first called attention to the possibility of a hydro-electric power plant building to be built on the Ouachita river in Arkansas where the Carpenter dam now stands and furnishes current to Hot Springs, Little Rock and elsewhere.

Prof. Harris was a strong advocate of good roads and in 1919 wrote a treatise on "Road Problems in the Ozarks," which was widely used. In 1929 he issued another publication on **Earth Covered Highway Arches and Culverts**, which resulted in much more economical construction of such structures on Missouri highways.

Prof. Harris was long an advocate of the forestry movement. As a result of his studies in Arkansas and elsewhere throughout the South, he at one time advocated the abandonment of all levees on the Mississippi river from St. Louis to the gulf and the utilization of this land for forestry and game preserve purposes.

In the fall of 1931 Prof. Harris was appointed professor emeritus of civil engineering and in 1938 on completion of a new building on the campus to house Civil engineering the building was named Harris Hall in honor of Prof. Harris.

In later years Prof. Harris devoted much of his time to engineering economics. He often stated that the chief cause of unemployment, which he considered America's number one problem, is that engineers are doing just what they have been taught and trained to do, that is, to substitute mechanical power for human labor. For this Prof. Harris saw no simple solution but suggested that the government undertake and plan worth-while public works projects. First among these, he listed the construction of dams for water power, for such water power, he stated, works twenty-four hours a day throughout the year. He often said that not too far in the future, posterity will need the limited supply of coal, oil, and gas for other things than to burn in a power plant.

A few years before he died, Prof. Harris in his memoirs stated: "The period of 'Rugged Individuality,' wholesome achievement, peace and security in which I have lived is past. We are at a turning point in human affairs."

Prof. Harris' wife died several months ago. He is survived by four daughters, Mrs. George C. Willson, St. Louis, Mo., Mrs. Clarence H. Burrage, Norris, Tennessee, Zoe Harris, Stephens College, Columbia, Mo., and Mrs. Glenn A. Dooley, Knoxville, Tenn. Funeral services were held in the Episcopal Church at Rolla on Dec. 22 with burial in the Rolla cemetery. Rev. O. V. Jackson officiated.

A Miner Meets Miners

Word has been received from Edward E. Gygax, ensign on an LCI, that he has discovered that the world is full of Miners, for he has met many since his graduation. While working for General Electric in Erie, Pa., Lynn, Mass., and Fort Wayne, Ind., he worked with Roy Adams '42, Bob Hanna '43 and others.

Last July he attended the Naval indoctrination school in New York along with Nick Mushovic '42. He also reports renewing friendships with Prof. Thorpe, professor in mechanical department, L. B. Wissler '43, George Fiewieger '43, B. F. Emerson '44, and J. A. Liley '44, who entered the school in August.

In September he met E. M. "Killer" Kane '43 in San Francisco, who is also in the amphibious forces. A short while later he again met him in Pearl Harbor where he met his ship, an LST. While in Pearl Harbor, Gygax also met Jim Glover '43 who is aboard an LST, and Wally Jenneman '44 who is aboard an LSD.

Ed has just heard of Bob Underhill's '43 promotion to lieutenant (jg) after his attending mine warfare school. With Bob was Jack Fleischli '43. He has also received news from 1st Lt. Don Coolidge '43 that he is headed overseas.

Job Opportunities

Several companies have been asking concerning engineers recently. The Curtis Wright Corporation at 663 Main Ave., Passaic, N.J., has a large number of openings for men trained in engineering.

The Seismograph Service Corporation, 709 Kennedy Bldg., Tulsa 3, Okla., visited the campus recently and wanted men trained in electrical and civil engineering for geophysical prospecting.

Harold Ottinger '37, visited Rolla recently. Harold is with the Slumberger Well Surveying Corp., Houston, Tex. He is stationed at Midland, Tex. He states that their company too, could use men trained in electrical engineering.

D. E. Fisher, vice-president of the Certainteed Products Company, Chicago, Ill., wants a young mining engineer.

Any men available and interested should write direct to the companies or may write to the school for further details.

MSM Availability Service

The School of Mines and Metallurgy has long maintained a policy of assisting the young graduate in every way possible in finding his place in his profession and also in assisting the older graduates who desire to make a change. As a result of correspondence growing out of this work, a file of almost a thousand firms has been accumulated and to these firms each year when there is a normal graduating class, letters are sent calling their attention to the new graduates asking that these firms consider the available men and any contemplated additions to their technical personnel.

It is planned to utilize this same list of firms in the future and particularly as the MSM graduates come back from military service. This group of firms showing men available with a brief further review of their scholastic record and of their military achievements while in military service. It is hoped in this way to render a distinct service to the boys who had to leave school and go at once into military service without establishing contacts in industry.

Alumni who have reached positions of responsibility and who have opportunities for younger men in the engineering profession should keep in mind this service in filling vacancies in their organization.

It is difficult now to get men with engineering training for any purpose but with the return of the boys from the Army, a number of them will be available and some of the very best students of the ROTC usually chose their advance ROTC students at the end of the sophomore year and naturally pick the best type of boys going into the advanced ROTC and consequently into the Army.

C. James Grimm '30 Becomes Life Member

C. James Grimm, at present with the Armed Forces in Belgium is the first alumnus to take out the full life member under the new \$100 life membership plan. Jim is on civilian status but doing highly important work with the armed forces. He went to England in October of 1941 and was stationed in London until last June. With the invasion of France, Jim was transferred to United States Engineers Forces in France and is now stationed somewhere in Belgium. He has been in France, Belgium, Holland, and Germany. He holds two citations from the British government and one citation from the United States government.

D. C. Jackling '92 already a life member under the old plan, sent an additional \$50 merely as a contribution to bring his own life membership payment up to the \$100 basis. He was, however, already a life member and Jim was the first to actually become a full life member under the new plan.

Jim is the son of Claude Grimm, assistant superintendent of buildings and grounds at MSM. He graduated in 1930 majoring in electrical engineering.

Edgar Chestnut '45 Dies

Edgar Chestnut, a senior in electrical engineering, died at his home in Joplin, Mo. on Feb. 20, of a heart attack.

Edgar was finishing the first semester of his senior year, and just before the close of the fall semester he became ill and went to his home in Joplin. Feeling that he had recovered, he was making arrangements to return to school when he died suddenly of a heart attack.

Edgar was active in the student affairs on the campus. He was manager of the Engineers Club; chairman of the student chapter of AIEE; Marshal of Theta Tau; and a member of Blue Key. He was also on the honor list.

He was buried in Joplin and is survived by his mother, Mrs. Edna H. Chestnut of 520 Byers, Joplin, who is a teacher in the Joplin high school.

Capt. Hershkowitz' Experience (Continued from page 9)

out the gravel there would come a dead Japanese. Time was definitely of essence on that job, and the American boys could do nothing more than let the dead Japs go on in with the gravel. They finished the air strip and that strip of pavement contains many a dead Jap buried beneath it.

Although the Americans engaged in that encounter lost only three killed by the Japs at that time, they eventually suffered casualties amounting to 90% of their group, against the greatest of all enemy in that particular area, and that was malaria. They had practically no protection against malaria.

This was the first American army troop to engage the Japanese after the Americans decided that they had gone far enough and were fighting back. The Marines had tangled with the Japs on previous occasions. This was also the most southerly point that the Japanese advanced in their attempt to conquer the Pacific. The Australian government has erected a monument at Milne Bay marking it the most southern point of advancement of the Japanese.

Capt. Hershkowitz moved from Milne Bay to Dobodura about 60 miles inland and west of Ora Bay, where there had been extremely bitter fighting, but where the American 32nd Army Division at that time had things pretty well under control. They were still subject to terrific bombing. Gradually the Americans took control of the air from the Japs and from that time on the Americans have been going back toward Japan and so far they have not been stopped.

Capt. Hershkowitz returned to the United States Sept. 28, 1944. He was thirteen days making the trip from Australia to the United States compared with thirty-eight days in making the first journey three years previously.

Capt. Hershkowitz is now stationed at Fort Leonard Wood, Mo. His home address is 203 E. 12th St., Rolla, Mo.

Loan Funds at MSM

The various Loan Funds at MSM are in excellent condition to meet the postwar demands that will be made upon them, according to Dean Curtis L. Wilson. The present low enrollment of the school coupled with the increased financial incomes of the people throughout the country has resulted in a building up of the loan funds to a higher level of available money than at any time in the history of the school.

While the demand for help from these funds is lower than usual at this time, Dean Wilson predicted that following the war there would exist an exceptionally heavy need for loan fund assistance. Many of the soldiers who return under Public Laws 346 and 16, providing aid for the education of veterans, will need help in addition to the aid they can secure from the government, particularly those boys under Public Law 346, commonly known as the G.I. Bill. These boys will be permitted a year of schooling with fees paid, books furnished and \$50 a month subsistence allowance if single and \$75 per month if married. At the end of this year, if their marks are satisfactory, they will be given additional training to the extent of time they have been in the service. Many of these boys will not have been in the Armed Forces long enough for this additional time to completely pay for their education and they will need aid in their junior and senior years in furnishing work for their degree.

The Board of Curators of the University of Missouri is trustee or acts as agent for the following funds totaling \$35,484.77, and administers them for the benefit of needy and deserving students enrolled in the School of Mines and Metallurgy.

Jackling Loan Fund

Outstanding among the loan funds at MSM is the Jackling Loan Fund established by Dr. D. C. Jackling '92 through contributions totaling \$20,000. The present book value of this fund is \$33,169.57. A total of 1220 loans have been made from this fund. In other words, approximately one-third of all the graduates of MSM have been aided through the Jackling Loan Fund. This fund will play a decidedly important part in aiding the students at the peak load in enrollment which is certain to come following the close of the war, particularly the younger students not eligible for veterans aid.

Alumni Student Loan Fund

The Eastern Section of the Alumni Association several years ago established a loan fund through individual contributions amounting to \$965. This has grown to a present value of \$1,262.68. A total of 84 students have borrowed from this fund.

Phi Kappa Phi Loan Fund

The local chapter of Phi Kappa Phi has established a loan fund for the aid of members of the senior class with scholastic standing equal to or better than the average of the class. The original contributions to this fund amounted to \$225.86. At present it has grown to \$443.33. A total of seven loans have been made from this fund.

Woman's Auxiliary Loan Fund

The St. Louis Section of the Woman's Auxiliary of the American Institute of Mining and Metallurgical Engineers created a loan fund to assist worthy students. This fund had an original contribution of \$100 and has grown to \$102.19. Four loans have been made from this fund.

Fred Fisher Memorial Fund

Fred Fisher, instructor in mechanics, died on Jan. 11, 1941, while a member of the faculty of MSM. The students of the school, as an indication of their appreciation of an excellent

teacher and loyal friend, over-subscribed what was meant to be a fund for floral offering. This over-subscription, in accordance with the wishes of Mr. Fisher's wife and parents, was used to establish a loan fund to be available for short-term loans to meet unusual circumstances which students encounter from time to time. The wife and parents of Mr. Fisher have augmented this donation by the students to an extent that the fund now consists of original contributions amounting to \$400 and has a present book value of \$407. Twenty students have been aided by the fund.

Lawrence R. Hinken Loan Fund

Lawrence R. Hinken, a member of the class of '40, has established a loan fund through a donation of \$100 to aid junior and senior students in chemistry and chemical engineering. No loans have yet been made from this fund.

Other Loan Funds

In addition to the loans from funds donated to the school, two other loan funds have played an important part in recent years in aiding students at MSM. These loan funds are described below.

Knights Templar Educational Foundation

This foundation was established by the Grand Commandery of Knights Templar of Missouri and during the midst of the depression, when demands were heaviest on the loan funds and when repayments were slowest, this fund was of very great aid to students of MSM and many of the students were aided from this source. This fund is administered by a committee at present consisting of Marvin E. Boisseau, chairman, St. Louis; M. C. Barnhill, treasurer of Marshall, Mo., and J. Lynn Drummond, secretary of Warrensburg. The money is not handled by the School of Mines, the school merely furnishing detailed information concerning each application for a loan from this fund.

Federal Student War Loan Fund

Soon after the beginning of the accelerated program of education throughout the United States, at a time when the engineering students were being deferred as in training for essential professions, the Federal government made an appropriation of funds to aid students in continuing their education on a year around basis. This was done on account of the fact that many engineering students work during the summer months to secure funds to continue with their education and under the accelerated program such work was not available to them. The law establishing the fund provided that if the student should be drafted before he could finish his education, the loan would be canceled. It also provided for deferment of payment should he enter military service, until after he had been discharged from the armed forces. It carries a rate of interest of 2½% per annum.

Under this law the Federal government advanced a fund of \$30,974.50. On account of the change in selective service regulations practically all of these boys entered military service upon graduation. A total of 83 students were aided from this fund. These loans as repaid are returned to the Treasurer of the United States.

Procedure in Making Loans

The students secure applications from the Dean's office, and after being completed the applications are reviewed and passed upon by a faculty committee, which committee also has before it recommendations from the heads of the departments in which the students are majoring. With the exception of the Fisher fund, loans are granted only to junior and senior students, with an occasional exception in the case of an unusually deserving applicant. From the Fisher fund, loans are made to students in any classification and without regard to scholastic standing.

Dean Wilson made Trustee of Midwest Research Institute

The Midwest Research Institute, a non-profit scientific research organization, has been founded in the middle west with headquarters in Kansas City to develop agriculture, business, commerce, industry and the natural resources of the Midwest. The first meeting of the new organization was held in Kansas City on Feb. 5.

The new organization is formed along the line of the Mellon Institute, the Batelle Memorial Institute and the Armour Research Foundation, all of which have made discoveries of tremendous importance to American industry.

The wide scope of the Institute's activities will cover chemistry, physics, metallurgy, mineralogy, biology, bacteriology, chemical, civil, electrical, and mechanical engineering and other fields of science and science application. Research in these fields will be carried on to seek development of new processes and products and the improvement of existing ones for the direct benefit of industry and agriculture of the Midwest area.

J. C. Nichols of the J. C. Nichols Company in Kansas City, Mo., is chairman of the board of trustees. Dean Curtis L. Wilson of the School of Mines and Metallurgy is a member of the board of trustees as is also President F. A. Middlebush at the University of Missouri. A. P. Green '35, president of the A. P. Green Firebrick Company at Mexico, Mo., is likewise a member of the board of trustees along with Bruce Williams '05, president of the Bruce Williams Laboratory in Joplin, Mo. Dr. Edward Clark, Missouri State Geologist of Rolla is also on the board.

Fire Damages Lambda Chi Alpha Fraternity House

The Rolla fire department was called to the Lambda Chi Alpha fraternity house on Friday morning, Dec. 29 between 8:30 and 9, when a fire was discovered by the postman. Flames were shooting out of the windows on the first floor when firemen arrived upon the scene.

The last person known to have been in the building before the fire was Bud Gauden, Lambda Chi pledge, who went to the house the night before. At that time there was no fire in the furnace in the house. All indications point to faulty wiring as the cause of the fire.

It is believed the fire originated under the floor in the chapter room, as that room was completely destroyed including the contents. Smoke damage to the remainder of the house necessitates complete redecoration. The insurance adjusters have estimated the damage at \$2600.

This fire caused several local people to recall the fire at the Lambda Chi house just five years ago, also during the Christmas vacation.

Myron Read Writes Article on Strip Coal in Western Missouri

The January issue of the Mining Congress Journal contains an extensive article by Myron Read, instructor in mining engineering at MSM covering the strip coal mining in western Missouri. These operations are now producing a million tons of wash coal a year. It is operated by the Sinclair Coal Company, the largest producer of coal in Missouri, through its affiliates, the Hume-Sinclair and Huntsville-Sinclair Coal Mining Companies. The coal averages thirty-four inches in thickness and is overlain by 20 to 50 ft. of shale. The mining operations were described in detail by Prof. Read's article.

Dr. S. R. B. Cooke '30 Unable to Accept Position in New Zealand

Dr. S. R. B. Cooke who was reported in the last issue of the Alumnus as having accepted a position at the University of Otago at Dunedin, New Zealand, found, in seeking to arrange transportation to New Zealand, that it was practically impossible to get transportation for his family to that

Graduate Student Studies Joplin Methods

An interesting piece of mining research on Joplin mining methods has just been completed by James F. A. Taylor of Dunedin, New Zealand, a graduate student at Missouri School of Mines, according to an announcement by Dean Curtis L. Wilson of Missouri School of Mines at Rolla. Under the supervision of Dr. J. Donald Forrester, professor of mining engineering at Missouri School of Mines, and with the cooperation of S. S. Clarke, general superintendent of mines of the Eagle-Picher Mining and Smelting Company at Joplin, Taylor has made a comparative analysis of some recent mining practices in the Tri-State mining district.

Recent mining practices which have been developed in the Tri-State district are chiefly those of improved mechanization in rock drilling and mine transportation. As a result of the studies which have been made of these new improvements, together with data gathered of the older practices for comparative purposes, it has been possible to determine what benefits have accrued because of mechanization and also to demonstrate quantitatively which elements of the operations have altered to result in greater mining efficiency.

Taylor is a graduate of Otago School of Mines in Dunedin, New Zealand. He came to Missouri a year ago in order to continue his studies in mining. On his way to Missouri he stopped in British Columbia and Montana to inspect mining operations, and from Missouri he will proceed to England before returning to New Zealand. As a result of his graduate work he will receive the degree of Master of Science in mining engineering from Missouri School of Mines. The results of his research will be published in the form of a bulletin by the State Mining Experiment Station which is a branch of Missouri School of Mines.

Lt. Col. John H. Livingston '39 in France

Lt. Col. John H. Livingston writes from northern France where he is now stationed, sending a letter from a prospective student. Even while John is fighting the Germans, he is looking out for the best interests of MSM. John writes that he has been in Germany and Luxemburg with the 3rd Army and has seen Capt. Bob Livingston '39, Lt. Col. John J. Livingston '32 and also Maj. Harry Bolon '29. Fred Thompson '38 is with Col. Livingston's unit and Roy Perry '40 is near there.

A Study of the Flow Properties of Concentrated Clay-water Mixtures

A bulletin written by W. J. Smothers and Dr. Paul G. Herold of the Ceramics department has been published under the above title.

The flow properties of three commercial kaolins, Florida, North Carolina, and Georgia were examined by forcing through orifices rather than capillary openings under pressures of 0-100 lbs. per sq. in. Orifices of differing length and diameter were used, the one adopted was two inches long and one-eighth inch in diameter.

The effect of water content, added NaOH after electrodiagnosis, and particle size on flow properties were studied. An equation was developed relating water content to starting pressure.

Three factors were indicative of the workability of the different mixtures: the pressure at which flow began, the relative rate of change of flow with pressure after flow had begun, and the flow value at which a reversal in curvature in the flow curve was noted. The portion of the flow curve below the reversal could be fitted to an exponential type of equation.

country and it would probably be necessary for his wife and son to remain in the United States for an indefinite time. In view of this situation, Dr. Cooke advised the University authorities of Otago, that he would be unable to take the station that had been offered him. He will remain as professor of mineral dressing at the Montana School of Mines.

Eighteen Returned Veterans Enrolled at MSM

Eighteen members of the armed services who have been honorably discharged and returned to civilian life have enrolled at MSM during the school year 1944-45. School officials consider these the forerunner of a very large number of boys who will return under Public Law 346, commonly known as the G.I. Bill, and Public Law 16 for the training of disabled veterans. In fact, the school officials are sending mail to some forty-five hundred boys in the armed forces, keeping them informed of their rights and privileges under this legislation and giving them other information concerning the School of Mines, looking forward to their discharge from armed forces.

Most of these students will take the regular four-year course leading to a degree and in fact school officials urgently recommend that this be done. However, for those who do not have the time to devote to a full four-year course, the school has arranged these short courses of two years' duration to prepare these boys for certain specialized fields of endeavor. These courses will lead to a certificate and not a degree. The program was arranged by a committee appointed by Dean Curtis L. Wilson and headed by Prof. E. W. Carlton. These short courses are covered in a special bulletin issued as a supplement to the catalog.

The school has also arranged a small leaflet containing copies of the G.I. Bill and Public Law 16 and giving information concerning living conditions in Rolla and expenses while attending school and other information that would be of general interest to a student considering enrolling at this school.

It is expected that there will be a very large increase in enrollment immediately following the war, both on an undergraduate and a graduate basis. Dean Wilson at a recent policy committee meeting asked the department heads to keep these matters in mind and to be prepared to augment their staff just as soon as the increased load begins to become apparent. Department heads are also considering the matter of graduate work leading towards the master's degree, as numerous of the younger graduates, particularly those who went directly from the campus into military service, are interested in returning and doing work leading to a master's degree. This can be done under Public Law 346, if they were under twenty-five at the time they entered military service; or they could take a year of schooling as "refresher training" under any circumstance, regardless of age, and in this year a man with a bachelor's could manage a master's degree by devoting full time to his studies.

Public Law 346 provides for payment of \$50.00 a month, with books, fees, and educational expenses furnished for a man who is single. For a married man the subsistence allowance is \$75.00 a month. Public Law 16 for the training of disabled veterans provides for payment of \$92.00 a month plus an allowance of \$11.00 a month for a man who is married. It, too, includes the furnishing of books, fees, and educational expenses.

Your Correct Address

MR. HOWARD M. KATZ, Secy.-Treas.
Alumni Association
Rolla, Missouri.

Dear Howard:

My new address is

My present occupation is (list the name of the company and position held)

Col. Thomas Boles ex-'04, Superintendent of Carlsbad Caverns

A special edition of an Albuquerque newspaper that was published Thursday, Feb. 1, 1945 is devoted almost wholly to a description of the history and the formation of the Carlsbad Caverns. Col. Boles has played an important part in the development of this widely known National Park that is attracting very large numbers of visitors in spite of war time restriction on traveling.

A copy of the above newspaper was sent to R. L. Mook '21 at Leasburg and forwarded by Mr. Mook to Alumni officials of Rolla.

Lt. Edward R. Kromka '42 Escapes Capture by the Japs

Word has been received from F. R. Kromka, brother of Edward R. Kromka '42 that Ed, a lieutenant in the Marine Corps, was flying a B-25 bomber when his plane was caught in 20 millimeter anti-aircraft fire, while on a low level assault on Jap buildings and installations at Point Rondo, New Briton. Ed states that the impact of the fire shook the entire plane and he felt the loss of power as two of his engines went dead. The pilot was killed and Ed as co-pilot, in order to prevent capture by the Japs, twisted the plane toward the open sea and let it fly off shore as far as possible. The ocean was calm and he made what was described by his fellow crewmen as a beautiful landing. They escaped into the sea, leaving the plane to sink a few seconds later. The crew was picked up by a flying boat and returned to their base. Ed was given great credit by his fellow crewmen for his cool handling of the entire situation.

Lt. Kromka graduated in mining engineering in 1942 and soon after joined the Marines. On the campus he was active in athletics, serving as captain of the football team, being selected by the Associated Press as a member of the All-American third team of the small colleges. He was a member of Pi Kappa Alpha fraternity, Theta Tau, and served as president of the "M" club.

Alumni Dues

MR. HOWARD M. KATZ, Treasurer
Alumni Association
Rolla, Missouri.

Dear Howard:

I am enclosing herewith my check for \$5 in payment of my alumni dues for the year 1945-46, beginning Sept. 1.

Name _____

Street Address _____

Business Connection _____

City _____

State _____

If you know addresses of other alumni who have moved recently, attach a sheet of paper to this and give us those addresses. We need them badly, and only through your cooperation can we secure them.

Lt. (jg) O. D. Penrose '42 Collecting Jap Souvenirs

Lt. (jg) O. D. Penrose in a letter dated March 5, 1945 to Dean Wilson told of his experiences collecting souvenirs from the Japs. The letter is reproduced below.

I received your most welcomed letter today and thought it best to answer it immediately and enclose a few pictures you and members of the faculty might enjoy. (I have a few words written on the back of each picture.)

My collection of pictures is approximately 300 right at present. When this "mess" is all over I should have a wonderful souvenir album. The pictures were taken by us—so their souvenir value is doubly significant.

The machine gun is a brand new Jap gun—taken out of a Jap plane that was being assembled. It was taken during an attack and when the Jap air-strip was taken over by the allies.

The grass skirts are much more beautiful than the picture leads one to believe. They are very colorful—and approximately 6 inches thick. The skirt on the left cost me a package of cigarettes—the one on the right—a file. I have been offered ridiculous prices for them but their souvenir value is too great for me to ever part with them. I got them when I was in an isolated place in New Guinea. The natives there were very crude—but interesting. Practically all of them wore skirts similar to those in the picture.

I have sent my wife most of the souvenirs I have obtained. I have a few beautiful ones here on the ship that I want to present to her personally. They are beautiful sea shells, pearls (mother-of-pearl), cat-eyes, etc. I intend having necklaces, rings, etc. made from them. They are positively gorgeous.

We have traveled a good many miles out here in the Pacific and have seen much. We've been stationary for quite some time now but expect to move again soon.

I know that many of the pictures I have would be very interesting to you, but censorship regulations prevent me from mailing them. They pertain to our ship and the work we do. It really is a ship contrary to some belief. It has a bow, a hull, superstructure, stern, etc. just like any other ship—but it also is a drydock and is used for drydocking purposes only. It has performed miracles—and I'm mighty happy to be on it. I have gained a great amount of engineering experience.

Yes, cigarettes are quite a problem. We have been fortunate in having enough up until recently. I guess they're getting scarce all over.

Thank you for your kind offer of assistance when I get back to civilian life. I like the Navy real well and have not made up my mind as yet whether I'll stay in the Civil Engineer Corps of the Navy or go back to engineering in civilian life. All I want right now is to get back home and with my wife. I've been on sea duty 11½ months now so expect it will be 9 or 10 more months before I'll get back. It may be sooner—I'm hoping so anyway.

I have been promoted to lieutenant (jg) so feel rather proud of the promotion received on Jan. 1, 1945.

If, in the future, I'm able to obtain souvenirs (duplicates) and can mail them, I will send you them if you like. At present souvenirs are an impossibility but if and when we move I should be able to find some.

Thanking you again for your wonderful letter.

Lt. (jg) E. L. Rueff '40 Back in States

Lt. (jg) Edward L. Rueff visited the campus on March 20. Ed has been in the Civil Engineer Corps of the Navy assigned to the Construction Bn. with the Seabees since 1942. He has seen action in Guadalcanal, Emirau, and then in the Admiralties. In the Admiralties he saw Lt. (jg) Bill Bourne '41. Ed is going from Rolla to Davisville, Rhode Island with the NCTC there. Ed was accompanied to Rolla by his wife.

W. S. Thomas '94 Donates Mineral Specimens

W. S. Thomas of 4815 Alameda, Portland, Oregon, has sent an excellent collection of mineral specimens for use in the geological laboratories and for display in the geological museum. The exhibit was accompanied by descriptive matter showing the characteristics of the minerals and the locality from which they were obtained.

Mr. Thomas ranks fifteenth among the oldest of the living graduates, graduating in 1894. He came to Rolla in May, 1944 to receive his fifty-year Alumni medal at the Commencement that year. He writes that he is still hale and hearty and enjoying life.

Board of Visitors' Recommendation

(Continued from page 1)

land between State street and Highway 66 west of the campus, and has under construction a second unit of laboratory space of this same tract of land. They have postwar plans for the erection of a substantial building that will take care of their needs in the future, making the building now occupied by them available to the electrical engineering department.

The report also recommends the remodeling of Norwood Hall, the preparation of a new experimental mine, and the construction of a student center.

The estimates upon which the Board of Visitors made their recommendation were prepared by Dean Curtis L. Wilson with the cooperation of the heads of the various degree granting departments. His report was approved by President F. A. Middlebush and Tom K. Smith, president of the Board of Curators of the University and transmitted to the Board of Visitors.

The Board of Visitors is composed of Allen P. Green '35 of Mexico, Mo., chairman; Wilbur A. Cochel, Kansas City, Mo.; D. Howard Doane, St. Louis, Mo.; A. Frank Ridgeway, Columbia, Mo.; and Allen L. Oliver, Cape Girardeau, Mo.

Lt. Col. Max G. McCrory '33 Decorated

Lt. Col. Max G. McCrory, of Martins Ferry, Ohio, Commanding Officer of the 819th Engineer Aviation Battalion, has been awarded the Silver Star Medal for gallantry in action on the Normandy beachhead on D-Day.

Col. McCrory led advanced elements of the IX Engineer Command ashore on D-Day at H-Hour plus three, and directed his engineer soldiers in the construction of an emergency landing strip within range of enemy artillery and small arms fire. This strip was the first completed on the continent of France, and was operational by nightfall of D-Day.

The citation accompanying the award stated that Col. McCrory "led his men while under heavy fire with a fearless and undaunted courage which reflects great credit upon himself and the military service. His brilliant supervision of air base construction activities in the face of intense enemy resistance contributed in a large measure to the successful establishment of Ninth Air Force operations on the European Continent."

Shortly after D-Day, the units under Col. McCrory completed three additional air bases, among the first to be used on the continent. McCrory and all personnel of the 819th Engineer Aviation Battalion have also been awarded the Presidential Distinguished Unit Citation for these actions.

Col. McCrory has served overseas more than 32 months. He is a graduate of the Missouri School of Mines where he received a degree in electrical engineering in 1933. Prior to active service with the Armed Forces, he was associated with the Weiston Steel Co., of Weiston, West Virginia, as assistant gas engineer.

His wife, Mrs. Agnes June McCrory, resides with their daughter, at 1211 South Tenth street, Martins Ferry, Ohio. His parents live in Stuebenville, Ohio.

Frazier M. Stewart '40 on "Fighting Lady"

Experiences as the Fighter Director Officer of "The Fighting Lady" were related by Lt. (jg) Frazier M. Stewart of Flat River, Mo., and a graduate of MSM on a visit to Rolla on Feb. 7.

"The Fighting Lady" is the title given to a full-length motion picture now being shown throughout the United States as released by the Navy. These pictures are all of actual battle scenes with no staging whatsoever and are in technicolor. Many of the scenes according to Lt. Stewart, are from the gun cameras synchronized with the machine guns on the fighting planes.

Lt. Stewart takes part in five of the scenes in the motion picture. Camera men built the story around "Smokey Stover" who was then the fighter director of the ship, with Lt. Stewart as his first assistant. "Smokey Stover" was also a fighter pilot and took his plane out on a battle flight and failed to return. This was after the picture had been made. Lt. Stewart then became the fighter director and was with "The Fighting Lady" until Christmas Eve of 1944 when he was given leave and flew back to the United States, arriving on Jan. 6.

Lt. Stewart joined "The Fighting Lady" at the time of its commissioning in April of 1943 at Norfolk, Va. and was one of the last of the original crew of officers to leave the boat. The big ship went at once into the Pacific and its first action was the first in which the new carrier classes of the United States Navy participated. This was in August of 1943 in an attack upon the Marcus Islands, where all the Japanese installations were destroyed. From there "The Fighting Lady" went to Wake Island and then to the Gilberts. The big ship was under torpedo attack on numerous occasions during all of these engagements and in the Gilberts attack shot down in one day 45 planes that were attacking the ship, which at that time was supporting the landing in the Gilberts. The ship again supported the landing in the Marshall Islands in which engagement an accompanying carrier was torpedoed.

From the Marshalls "The Fighting Lady" made two raids on Truk and then made a raid on Saipan, the first attack by the United States forces in the Marianas. They likewise made the first attack on Palau. They supported the landing in New Guinea when MacArthur made his big move up the coast on that island and after that came back and supported the landing on the Marianas and made an attack on Iwo Jima of the Volcano Islands group.

The big ship took part in the first battle of the Philippines in which the first day 435 Jap planes were shot down and the next day the famous American Task Force 58 of which "The Fighting Lady" was a unit, sank several of the Jap carriers.

After this engagement the big ship came back to the United States for overhauling and repairs. The ship arrived at Leyte just as the fighting there was over, but they engaged in the continued bombing of Luzon in softening that island for Gen. MacArthur's famed landing.

In all of these engagements Lt. Stewart stated that through the fighting quality of the ship, its new armament,



Lt. (jg) and Mrs. Frazier M. Stewart

Capt. E. S. McCandliss '17 Dies

Capt. Edgar Scott McCandliss, chief of the Denver office of the United States Army Engineers Civil Works Division passed away Feb. 8 in the Burbank Hospital. He has been in charge of the Army engineers since 1937 and prior to that was professor in civil engineering at the School of Mines and Metallurgy.

Margaret McRae Garrett and Children Released from Jap Prison

Word has been received from Mrs. A. L. McRae that her daughter, Mrs. Margaret McRae Garrett and children who have been prisoners in the Japanese prison camp in the Philippines since the fall of Manila have been rescued and are in "fair" condition. No word has been received concerning Mrs. Garrett's husband, Walter Garrett, a Naval officer and also a prisoner.

Margaret McRae is the daughter of Dr. A. L. McRae, former director of MSM, and will be remembered by many of the Alumni.

The President's Message

(Continued from page 3)

ship candidates. Responsibility for contacting and following prospective MSM students.

V. Alumni Availability

Promotion of the availability of jobs and the availability of candidates for such jobs with special emphasis upon the placing of returned Veterans.

VI. Research and Curriculum

Planning and promotion of faculty interest and activity in research, and suggestions to faculty as to projects upon which research is desirable. Responsibility for suggestions to faculty as to such additions and revisions of the Curriculum as are indicated by field experiences.

VII. Publications Committee

Responsibility for the publication of a representative Alumni journal. The solicitation of alumni and faculty written articles of interest. Solicitation of advertising when paper is again available, and in the event such solicitation seems advisable.

VIII. Athletic Committee

Planning for future representative athletic performance. Since much time is consumed in the selection and determination of availability, of interested members for Committee posts, this report is intended to advise you that our program is progressing.

and sheer good luck, they came through with no particular damages. They suffered misses and near misses dozens of times by torpedoes and bombs and their flight deck was strafed on several occasions. However, Lt. Stewart states that his most harrowing experience and the one in which he was most frightened was that of riding out the great typhoon which hit the American fleet and in which some of the smaller ships were sunk.

Lt. Stewart is visiting at the home of his parents, Mr. and Mrs. T. J. Stewart of Flat River, Mo., where his father is superintendent of schools. He will leave soon for Georgia for reassignment.

Alumni Personals

1894

William S. Thomas writes that he is retired and is living at 4815 N.E. Alameda, Portland 13, Oregon.

1899

J. R. Underwood may be reached at the Kelly & Underwood Const. Co., Granby, Mo. or the Unit Rig & Equipment Co., Tulsa, Okla.

1906

John McMillan Brooks Jr. is General Manager for the Minas de Matshambre, S.A. Matahambre, Pinar del Rio, Cuba. His home address is 4608 Cumberland Circle, El Paso, Texas.

1907

Ira L. Wright writes from Silver City, New Mexico, that he is General Manager for the Black Hawk Consolidated Mines Co. in that city.

1908

Dibrell P. Hynes is Vice-President of the Palmer Corporation, 80 E. Jackson, Chicago. His home address is 1519 Davis St., Evanston, Illinois.

1909

A. Emory Wishon is Vice-President and General Manager, Pacific Gas & Electric Co., 245 Market St., San Francisco 6, Calif.

1910

A. N. Detweiler is Smelter Superintendent for the Goldsmith Bros. S. & R. Co., 1300 W. 59th St., Chicago, Ill. His home address is 1634 E. 69th street in Chicago. Ernest "Count" Wander has moved from El Dorado, Ark., to Berkeley, Calif., where he is Research Chemist for the Cutter Laboratories. His home address is 3133 College avenue, Berkeley, Calif. John S. Stewart is a consulting metallurgist, c/o Chase National Bank, 25 Broadway, New York. He requests that 325 East 72nd street, New York 21, N.Y. address be used for the present. Frederick E. Riede is with the Mineral Point Zinc Co. division of the New Jersey Zinc Co. at Depue, Ill.

1911

M. Albertson is with the Shell Oil Co., Inc., P.O. Box 2099, Houston 1, Tex. He is making his home at 2106 Goldsmith, Houston, Tex.

1912

S. E. Hollister is with the Southwestern Engineering Co., 4800 Santa Fe Ave., Los Angeles, Calif. He gives his home address as 1680 Vallecito Dr., Puente, Calif. Edward D. Lynton is now residing at 1221 North Isabel street, Glendale 7, Calif., after having spent 18 months in Africa attached to the United States Army. Roswell H. Maveety is doing consulting work as an industrial plant designer with offices at 53 West Jackson boulevard, Chicago, Ill.

1913

Donald H. Radcliffe has a change of address to 1710 Purdy avenue, Miami Beach 39, Fla. James Hopkins left Washington on Jan. 10 for Carlsbad, New Mex., where he is to be in charge of explorations for the Potash Company of America. Jim will continue to maintain his residence at Silver Spring, Md., for the time being.

1914

Clyde W. Hall is Vice-President and General Manager of the United Clay Mines Corporation, 101 Oakland street, Trenton, N.J. He resides at 6 Kensington, in Trenton. G. F. Metz is District Manager of the Hardinge Co., Inc., in York, Pa. He resides at Farquhar Estates, R.D. No. 6, in York.

1916

Fred Grotts, President of the Fort Pitt Steel Casting Co., subsidiary of the H. K. Porter Co., has been appointed director of research and metallurgy for all Porter plants. This is a new post and he will be in charge of problems on materials, metallurgy and practices on present problems, and will establish a technical and engineering and advisory service for customers on specifications and materials. He will also direct new product developments. Mr. Grotts has a national reputation as an authority in the field of heat treatment of cast steel and cast iron. George E. Ude is working with the Phelps Dodge Corp., Morenci, Ariz. His mailing address is Route 1, Box 270, Morenci. Earl J. McNely is now living at 612 Broadway, Gillespie, Illinois.

1919

Ben Nichols is manager for the Schaeffer Bros. & Powell, St. Louis, Mo., his street address being 6709 Garner. Charles M. Schnaidt is bridge and building supervisor for the C & E I Railroad, Salem, Ill. He is making his home at 228 E. Oglesby street, Salem, Ill. L. B. Benton is living at 3332 Ryan Ave., Ft. Worth, Texas.

1920

David A. Bash is working with the Cities Service Oil Co., Bartlesville, Okla. He is making his home at 1517 Jennings, Bartlesville. Mark L. Terry is with the Texas Company, Box 2100, Denver 1, Colo. His home is at 1401 Fairfax street, Denver 7, Colo. R. H. Pietsch is chief inspector at Western Electric in Chicago. He resides at 6023 Kimbark avenue, in Chicago. Edwin A. Slover is with the Kennecott Copper Corporation Chino Mines Division, Hurley, New Mexico. Charles R. Barnard is with the Enos Coal Mining Co., Oakland City, Ind., his home being 118 N. Lucretia street, in Oakland City. A. M. Howald is director of research of the Plaskon Division, Toledo, Ohio. His office is on 2112-24 Sylvan avenue.

1922

George Richert is assistant minerals attache at the U.S. Embassy, Mexico City, D.F.

1923

J. M. Wanenmacher has resigned his position from Shell Oil Co. and is now associated with Henry Keplinger in the practice of Petroleum Engineering. The partnership is known as Keplinger & Wanenmacher. His new address is 329 Kennedy Bldg., Tulsa 3, Okla. M. L. Dorris is with the Kennecott Copper Corporation, Box 1633, Hurley, New Mexico. Paul R. Fischer is vice-president in charge of operations for the Certain-teed Products Corp., 120 S. LaSalle, Chicago, Ill. He is making his home at 1038 S. Green Bay road, Highland Park, Ill. M. I. Signer is professor of mining at the Colorado School of Mines in Golden. E. Taylor Campbell gives notification that his address has been changed to 857 Kings avenue, Springfield, Mo.

1924

Robert F. Grady Jr. has moved from Clear Lake, Iowa, to Mason City, Iowa. His street address is 144 Tenth street. Everett H. Cathcart, who has been living in Albany, Calif., has moved to 1540 Walnut street, Berkeley 7, Calif. J. Lewis Andrews is director of engineering at the Chefford Masters Co. in Fairfield, Ill., his home address being 212 Eleventh street, in Fairfield. E. A. Smith gives his address as Box 746, Bristow, Okla. Charles B. Kentnor Jr. is president of the W. S. Rockwell Co., 50 Church St., New York 7, N.Y. His home address is 242 Somerset avenue, Fairfield, Conn. Andrew Devereux is a metallurgist for the Goldsmith Bros. Smelting & Refining Co., in Chicago. He is residing at 7941 Dobson avenue. Claude L. Kemper writes from his home, Casilla 674, La Paz, Bolivia, S.A. E. R. Abbott is with the Medusa Portland Cement Co., 1000 Midland Bldg., Cleveland 15, Ohio. His home address is 2719 E. 116th street, Cleveland 20.

1925

Joseph N. Harris is a metallurgist for the Rockford Drop Forge Co., 2031 Ninth street, Rockford, Ill. His home address is 2016 Cumberland street, Rockford, Ill. Tom Eagan is living at 515 Woodland avenue, Grove City, Pa. Charles H. Lindsley is working with Johnston & Jennings Co., 877 Addison road, Cleveland, Ohio. Albert E. Buck is living at 510 S. Tulane, Albuquerque, New Mexico. Adolph Keuchler is with the Waltham Grinding Wheel Co., Waltham 54, Mass. Martin F. Zogg is employed by the Division of Highways for Illinois. His home address is 204 East Edgar, Paris, Ill. William Godwin is living at 8149 Kenwood avenue in Chicago, and is chemist for the Commonwealth Edison Co. Frank N. Strong visited the campus on Jan. 13 to see about enrolling his son, Jack at MSM. Frank is employed by the Springfield Body and Trailer Co. at 1405 College street, Springfield, Mo. His home address is R.F.D. No. 2, Springfield, Mo. Stuart M. Rathbone is superintendent of construction of the Veterans Construction Service, in Washington, D.C. He writes that he does not have a permanent home address as he expects to be in Arkansas or Maryland soon on construction.

1926

Lt. Col. C. Cabanne Smith has an APO 403, c/o Postmaster, New York, N.Y. Mike A. Ledford is vice-president of the Houston Drilling Corp., 1331 Neils Esperson Bldg., Houston, Tex. He lives on Route 12, Box 752, Houston. Dryden Hodge is a lieutenant colonel in a Quartermaster (Mobile) Unit, APO in San Francisco, Calif. His home address is 18 Collins avenue, Troy, New York. Wei-Tung Hu visited the campus in late November. He is a member of the technical committee of the National Resources Commission of China. He is visiting this country in connection with the seige of the Chinese Government. In China, Mr. Hu is general manager of the North Yunnan Mining Administration at Yunnan, China. Edmond J. C. Hunze is working with the American Zinc Co. of Illinois, P.O. Box 495, East St. Louis, Ill. He resides at 2613 Ridge Ave. in East St. Louis.

T. Hudson Thatcher is with the Construction Battalion in the USNR stationed someplace in the Pacific. His home address is Glen Owen, Ferguson 21, Mo.

1927

R. L. Hallows is assistant to the president for the Eagle-Picher Lead Company, American Building, Cincinnati, Ohio. E. H. Cook works with the American Varnish Co., 1140 North Branch St., Chicago, Ill. E. R. Sievers has been discharged from the Army and is back at his old job as chief of surveys and mineral examiner for the U.S. Forest Service. His home address is 713 Parkland Circle, Albuquerque, New Mexico.

Randall H. Wightman is with the Riverside Cement Co. with P.O. Box 832, Riverside, Calif. Randall is living at 3900 Fifth street, Riverside. A. T. Dunham Jr., son of A. T. Dunham '16, was on the campus on Jan. 24. A. T. Jr. has completed one semester at MSM and is now in the Navy. He was heading toward Trinidad when his father was on the campus.

Paul R. Cook is now living at 5 Cooper Sq., New York City. Paul is working on the new water supply tunnel for the city of New York. Robert R. Lusk is making his home at 6645 Stewart avenue, Chicago, and is sales promotion engineer for the Commonwealth Edison Co. Lt. A. A. Peugnet, USNR, gives his address as 12th Naval District, Transfer Office, San Francisco, Calif. James W. Hardy is a captain at this writing and gives his address as Hq. Btry., H.D.S.F., Ft. Winfield, Scott, Calif. Joe A. (Chalky) Holman writes in answer to the statement in the December issue of the Alumnus that Ronald Mabrey believes that he has the oldest child of any member of the 1927 class. Chalky states that he has a daughter, Helen Louise Holman, who will be seventeen years old on May 4, 1945, and also a son Joe Jr., who is fifteen years old. He is now living at 3021 Fulton street, Shreveport, La., and is in the Office of Chief Engineer of the Southwestern Gas and Electric Company.

1928

W. K. Schweikhardt has moved to 7410 N. Damen, Chicago, Ill. Jack Gage is now living at 4720 Evergreen avenue, Port Arthur, Texas. Arthur P. Berry is with General Mills Inc., 2010 E. Hennepin, Minneapolis 13, Minn. Major Howard B. Moreland gives his new address as 0-248352, Hq. 243d Engr. Combat Bn., APO No. 508, c/o Postmaster, New York, N.Y. E. C. Faulkner gives his business connection as the Faulkner Construction Co., 1150 Griswold street, Detroit 26, Mich. His home address is 1611 Yorkshire, Birmingham, Mich. O. D. Niedermeyer with Mrs. Niedermeyer visited the campus on Jan. 25. "Red" is general manager of the Cia Minera de Oruro, Mina Colguirri. His address is Casilla 154, Oruro, Bolivia. He has been spending a vacation in the states and left for Bolivia again on Jan. 30.

C. D. Cordry is working for the Gulf Oil Corp., and making his home at 3140 Rogers, Ft. Worth, Texas. Karl A. Allebach is making his home at 1025 North Serrano, Los Angeles 27, Calif. Henry E. Gross is chief petroleum engineer at the Kingwood Oil Co., Effingham, Ill. Charles A. Freeman writes that he has a change of address to 1011 South Olive, Mexico, Mo. He is chief engineer for the A. P. Green Fire Brick Co.

1929

Lt. Col. Arthur H. Kemp is on overseas duty. His home address is c/o his mother, Mrs. George M. Anderson, 1411 South Carr, Sedalia, Mo. J. S. Reger writes from 102 W. 32nd street,

Austin, Texas. Major H. C. Bolon is executive officer of Capt. Jack Witt's Bn., it being the 187th. Roger O. Day is a major in the Hq. Island Command, APO 244, San Francisco, Calif. His home address is 1100 East Haley street, Santa Barbara, Calif. Joe Williamson Jr. is with the Russell & Axon, Consulting Engineers, his address being 415 S. Palmetto avenue, Daytona Beach, Fla.

1930

W. H. Rollman has moved to Tahlequah, Okla. He may be addressed c/o L. B. Hunt. P. E. Moore is a major in the Engineers, his address being Headquarters Bn. SCU 1476, Camp Sutton, N.C. His home address is 672 Salem avenue, Rolla, Mo. Wayne J. Berry now resides at Whitehaven, Tenn., Route 1. Eugene Woodman visited Rolla on Dec. 17. Gene is with the Waterways Laboratory at Vicksburg, Mississippi.

1931

Byron A. Barnes has moved to 4313 Duval street, Austin 22, Texas. Richard B. Draper is still living in St. Louis, but has moved to 327 North Taylor avenue. Allen J. Reid is in sales, General Refractories Co., 1226 W. Wisconsin avenue in Milwaukee, Wisc. W. E. Donaldson is secretary-treasurer of the California Alumni Association and is now living at 4671 Nob Hill drive, Los Angeles 42, Calif. John C. Miles visited the campus on Dec. 26. John is on the faculty of Mechanical Engineering department of the University of Illinois. His address is 205 ME Laboratory. Lt. Col. Alfons J. Tiefenbrun, formerly with the U.S. Engineers, Federal Bldg., St. Louis, is in an Engineering Topographic Bn. with an APO 403, New York. His home address is 3675 Alberta, St. Louis, Mo.

1932

John T. Sturm Jr. writes that he is with the U.S. Army Engineers, and gives his mailing address as 646 N. Forest Ave., Webster Groves 19, Mo. R. A. Bertram is working with Miller and Company, 3504 Carew Tower, Cincinnati. He makes his home at 6963 Thorndike Rd. in Mariemont, Ohio. Robert J. Victor is a metallurgist for the American Smelting & Refining Co., P.O. Box 810, Corpus Christi, Tex. He makes his home at 3425 Kenwood, Corpus Christi. Frank J. Malik is with the U.S. Engineers, 17th and Jackson, Omaha, Nebr. W. O. Woods is with the General Electric Co., 2901 E. Lake road. He is residing at 840 Rankins avenue, Erie, Pa. Arthur R. Bennett is an engineer with the Navy, his address being U.S. Navy, Bu Ships, Washington, D.C. He also maintains a residence in Washington, the address being 2410 Twentieth street N.W., Apt. 205. Robert F. Hippler writes that he has been out of the States, and his present address is 1205 McKendrie street, San Jose, Calif. He is engaged in Placer Mining, c/o James D. Dale and Associates, 58 Sutter Bldg., San Francisco. Rex Monroe is living at 1351 N. 58th street in Milwaukee, Wisc., and is general superintendent of the Refinery Division of the Sivyer Steel Casting Co. in Milwaukee. W. R. Mays is with the Associated Refineries, Inc., Duncan, Okla. His home address is 706 Chestnut street, Duncan, Okla.

1933

Joseph J. Picco gives his home address as 1334 Hawthorne place, St. Louis 17, Mo. C. H. Beardsley has written that he has just returned to Hawaii from down below and has given a new address. He reports that he has been enjoying the items in the Alumnus and is glad to hear that MSM has come into the limelight on the post-war construction. Mabel E. Phillips is working at the U.S. Bureau of Mines in Rolla, and her home is at 210 Walnut street. Raymone W. Borchers is a major stationed somewhere in Holland. Lt. Col. Wommack '36 is his commanding officer. Major Borchers is the Operations and Training Officer (S-3) of an Engineer Combat Battalion. His home address is 3880 Newton street, Denver, Colo. Charles K. Rose is assistant superintendent for the Baroid Sales Division, National Lead Co., El Portal, Calif. His home address is P.O. Box 9, in El Portal. George H. Musson reports that he is living at 819 Grant place, Boulder, Colo. Major Warwick L. Doll is in an Engineer Combat Group, APO 665, New York, his home address being 605 W. 14th St., Rolla, Mo.

1934

Roy E. Swift writes from his home at 1327 E. 4th street, Salt Lake City 2, Utah, that he is doing research work in hydrometallurgy for the Department of Mining and Metallurgical Research, Utah Engineering Experiment Station, University of Utah. He has been teaching in Fairbanks, Alaska. O. L. Nuernberger is district superintendent of the Shell Oil Co., Box 1457, Hobbs, N.M. John H. Zell is making his home at 617 No. Walnut, Wilmington, Ohio. LeCompte Joslin has recently been promoted to the rank of lieutenant colonel. Richard Taylor has changed his address to 1354 Van Buren St., Allentown, Pa. He formerly lived in Bethlehem. W. R. Gettler now lives in Mexico, Mo., at 906 S. Clark street. Edwin A. Hein, recently of Wilmington, Del., is now living at 8 Briar lane, Newark, Del.

Paul E. Smelser is a 1st lieutenant, Engineer Section, Hq. Normandy Base Sect. Com. Z. European Theatre of Operations, APO 562, New York. His home is 520 S. College street, Neosho, Mo. Wendell F. Gaddis has sent in a change of address to 1020 W. 45th street, Richmond 24, Va. He is a 1st lieutenant in the Corps of Engineers, stationed at the Richmond ASF Depot. A. H. Walther is a chemist for the National Aniline Division, 1051 South Park Ave., Buffalo 10, New York. His home address is 122 Norwood avenue, Buffalo 13, N.Y.

1935

George T. Nolde Jr. is serving overseas as a captain in the Hq. 13th Fighter Command, APO 7191, c/o Postmaster, San Francisco, Cal. His permanent address is 719 Ruprecht, Lemay 23, Mo. Lt. (jg) C. J. Thorpe, formerly a mechanical engineering instructor at MSM is now a U.S. Navy Communications officer assigned to a tanker "somewhere in the Atlantic." Robert H. Buck, recently of Morgantown, W.Va., is now living in St. Louis. His address is 3710 Pine Grove, St. Louis 20, Mo. Major Max M. Fischer is in the Corps of Engineers, and is temporarily stationed at Ft. Belvoir, but his permanent address is 506 S. Park avenue, Sedalia, Mo. Major Rudolph J. Knoll is on foreign duty with an APO number out of San Francisco. Rudy writes sending his Alumni dues and stating that he is presently located in the Philippines, "Where we have been sweating it out since 'A' day. I hope soon to be able to rejoin my Alumni friends and help build up your contemplated organization."

W. R. Burgoyne resides at 84 Abbottsford road, Winnetica, Ill. He is supervisor of mines and quarries of the United States Gypsum Co., in Chicago. Donald W. Dutton visited the campus on Dec. 26. Don is head of the department of Aeronautics at the Georgia School of Technology at Atlanta, Ga. His home address is 483 E. Wesley road N.E., Atlanta. Don and his wife, the former Ruth Muilenburg, with their son were visiting Dr. and Mrs. G. A. Muilenburg during the holidays. W. E. Bates is working with TVA in Nashville, Tenn., his home address being 331 No. Fairground, Jackson, Tenn. Don Weissman is a 1st lieutenant Corps of Engineers, with the Columbus ASF Depot, Columbus, Ohio. His home address is 1550 E. Broad, Columbus. Capt. E. C. Spotti is a prisoner of war interned in Japan. Capt. H. B. Atkinson is serving overseas in an H. & S. Co., APO 772, New York, N.Y.

1936

Richard H. Hoffman is on leave from the San Joaquin Power Division of Pacific Gas and Electric Co., Fresno, Calif., while he serves as a lieutenant (jg) on the U.S.S. North Carolina. His home address is 142 W. Yale, Fresno 4, Calif. James H. Menefee is a 1st lieutenant with a Medical Section, APO 519, New York, N.Y. Felix R. Schleenvoigt is a resident engineer, Koppers Coal Division, Stotesbury, W.Va. His home is at 20 Meadows Court, Beckley, W.Va. Fred A. Schwab has moved to 419 N. Jackson, Kansas City 1, Mo. Lt. (jg) Elmer Kirchoff is with a Naval Construction Battalion, with a Fleet Post Office in San Francisco, Calif. His home address is 3108 Summit avenue, East St. Louis, Ill. Herman J. Pfeifer is a salesman for the Electro Metallurgical Sales Corp., 230 N. Michigan avenue, Chicago. He lives at 635 E. 84th street.

Capt. Arthur E. Woerheide Jr. writes that his present address is 0-339286, 1349th Engr. Gen. Serv. Regt., APO 640, New York, N.Y. He will receive mail by addressing it to 257 Woodbourne drive, St. Louis, Mo. John F. Campbell is living

at 4239 Mercier, Kansas City 2, Mo. Thomas W. Wommack is a lieutenant colonel in 252nd Engr. Combat Bn., APO 339, New York, N.Y. His home address is 435 E. Bennett street, Springfield, Mo. Alan J. Hoener is now in France, having landed there last September after eleven months in Italy and six months in Africa. He is serving as a regiment staff officer. Alan writes that he has seen Barney Peebles '36 who is a lieutenant colonel and a general staff officer and has been awarded the Legion of Merit and the Bronze Star; also Guy Wommack '36, who is a lieutenant colonel. He has been in France somewhere near Aachen serving as a commanding officer of a Combat Bn. Eads Hardaway '35, who graduated from West Point, is a lieutenant colonel and who was captured by the Germans last fall, now a prisoner of war. Fritz Hassler '32 is also in France, Allan understands, although he hasn't seen him. He saw him in Casablanca, Africa almost two years ago.

1937

Lt. Robert L. Elgin gives his address as MOQ BB-4, Cabaniss Field, Corpus Christi, Tex. Buran W. Brown is with the Western Geophysical Company at Stanton, Tex. Marshall W. Taylor II has just finished a contract in South America and has returned to the United States. He is temporarily living at the home of his wife in St. James, Mo. Marshall visited the campus on Feb. 7. L. E. Graff lives in Gary, Ind., at 261 Ellsworth street, and is cost engineer for the American Bridge Co., 208 S. LaSalle street in Chicago. Arthur P. Hausmann is a production control manager for the Sterling Grinding Wheel Division of the Cleveland Quarries, in Tiffin, Ohio. He resides at 73 Park avenue in Tiffin. Edwin W. Logan sends notification that his address has been changed to 7 Granvue Dr., Belleville, Ill. Lt. Earl V. Porter is in the 610th AAF Base Unit F., Elgin Field, Fla.

1938

Herbert C. Wolfe is now a major in the Corps of Engineers, with an APO 91 in New York. His home address is 6216 Dexter drive, Afton 23, Mo. R. G. Prough is living at 1607 Dearborn drive, Kirkwood 22, Mo. Jack McCaw is an engineer with the E. I. du Pont de Nemours, Box 429, Pasco, Wash. His mailing address is 1410 Farrell lane, Richland, Wash. John A. Short was on the campus on Jan. 13. John is in charge of development for the Department of Resources and Development in Jefferson City, Mo., his office being in the State Office Building. He is filing application for registration as professional engineer. William A. Ford is in the Corps of Engineers, and gives his permanent mailing address as c/o John Clark, Benton City, Mo.

Lt. James D. F. Evans is in an Engineer Battalion, APO No. 5, New York. Kenneth Sibert writes from "somewhere in Germany" and states that this war ground will be a paradise for construction engineers after the war is over, but right now the main battle the engineers are having is mud. Kenneth is a staff sergeant there, in an H. & S. Co. C. R. Burnett is at present living at 3125 Bristol road, Fort Worth, Texas. Jack Radcliffe now lives at 337 West Madison, Kirkwood 22, Mo. Chilton E. Prouty is with the United States Geological Survey, Washington 25, D.C. Lt. Albert A. Phillips is with an Engr. Heavy Pontoon Bn. with an APO in New York City. His home address is 210 Walnut St.

Capt. W. E. Stephens, 0-855048, 22nd Bomb Sqdn., APO 212, c/o Postmaster New York, N.Y., writes to Dr. Cullison that he had a very busy month for November of 1944 and expects that December will surpass all previous tonages dropped by his squadron in the South China theatre. He has his orders for return to the States but is staying over until his assistant is released from the hospital. He may be in Rolla during his leave. He has spent some time in Burma and reports that the Engineers on the Ledo road, where many MSM men are, are doing a fine job through jungle which is worse than any he has ever seen in South America. Melvin E. Nickel resides at 7020 Cregier avenue in Chicago. He is general foreman sintering plant, Wisconsin Steel Works, International Harvester Co. in Chicago. Charles Lee Clayton and his wife, the former Kathleen Hamilton of Rolla, were in Rolla visiting friends and relatives over the holidays. They are making their home at 83 W. 15th street, Chicago Heights, Ill.

Lt. Don C. Bowman Jr., diving officer on a navy submarine, was decorated with the Silver Star medal at Fort Lauderdale, Fla. Don's cita-

tion was for gallantry and intrepidity in action and for efficiency and coolness during periods of enemy counter measures which greatly assisted his ship in conducting successful evasive tactics. Don was President of Lambda Chi Alpha while in school. His wife, Mrs. Nadine Bowman lives at 4051 Giles avenue, St. Louis. J. S. LeGrand has the address of 11 Waverly place, New York 3, New York.

1939

Joel F. Loveridge is a welding engineer at 3800 Weber road, St. Louis County, Mo. He lives at 1008 Grandview Dr., Kirkwood 22, Mo. Richard C. Brandt gives a recent mailing address as 224 No. Ellis St., Cape Girardeau, Mo. William H. Webb has a change of APO to 339, New York, N.Y. Major Herbert F. Crecelius gives the address of Hq. Northern Combat Area Command, APO 218, New York, N.Y. Major W. R. Ellis sent Christmas greetings from overseas, his address being 1st Prov. Engr. Brigade, APO 244, c/o Postmaster, San Francisco, Calif.

Lt. (jg) James Uliak writes a newsy letter bringing all up to date of his whereabouts. He has been overseas for some time and in an invasion unit, having served in North Africa, Sicily, Salerno, and Southern France. He reports that they are an 85% casual outfit but so far he has not been scratched. He is a platoon commander and to date they have earned three citations and two commendations. Lawrence A. Roe, formerly with the American Potash and Chemical Corporation is now a research engineer in the minerals division of Battelle Memorial Institute at Columbus, Ohio. His home address is 1378 Eastview avenue, Columbus 8, Ohio. 1st Lt. A. H. Bursten has changed his address from Bellmead, Texas, to Altus, Okla., Box 448, A.A.A.F. Lt. Wm. R. Brannock, 035958, is with Company A, 737 Ry. Op. Bn., Camp Robinson, Little Rock, Ark.

Wm. F. Oberbeck is now in the Army and gives an APO No. 996, c/o Postmaster, Seattle, Wash. Carl von Wehrden visited the campus on Feb. 1. Carl is engaged in maintenance of motion picture equipment at the Army camps throughout the United States. His home address is 5328c Gladstone place, St. Louis, Mo. George O. Pitts is making application in the Merchant Marine for Officers Candidate School. His home address is 8 Henry street, Hampton, Va. J. V. Spalding is with the Bethlehem Supply Co., Box 3008, Houston 1, Tex. He makes his home at 3774 Nottingham, Houston 6, Texas. Lt. (jg) Glenn E. Brand of the U.S. Coast Guard visited the campus on Dec. 8. Glenn's home address is Steelville, Mo. Philip H. Pipkin is now with Gen. Patton's Army on the Western Front. Phil was a civil engineer with the Cottonbelt Railroad before entering the army.

1940

Major Norman P. Tucker spent the holidays in Rolla with his mother. Norman has served as an engineer officer in the Air Corps in Palestine, Egypt, Lybia, Tunisia, and finally in Italy. Norman's unit took part in the fight at El Allamein, the first low level attack on the Ploesti oil refineries and one of the first heavy attacks on southern Germany. Norman is wearing four campaign stars and has more coming. Norman came through all without a scratch. Although, he admits that he had to hit the fox holes ever so often. Woodrow L. Burgess visited the campus on Dec. 29. Woodrow is with the U.S. Engineers of Little Rock, Ark. James F. Rushing is with the Corps of Engineers with an APO 562, New York, N.Y. His home address is given as 1610 Brown-Marx Bldg., Birmingham 7, Ala. Capt. J. R. Klug is mine engineer for the St. Joseph Lead Co., his home address being Box 126, Richland, Mo. Major Walter P. Leber gives his address as Engr. Sec. Adv. Sec. Com. Zone, APO 113, New York, N.Y. His home is 4931 Nottingham avenue, St. Louis, Mo.

Walter Baumstark is now employed by the McDonnell Aircraft Co. His home is in Manhasset Village in St. Louis County. Lt. (jg) Arthur Weber is living at 308 Cunningham, Valle Jo., Calif. Art and Mrs. Weber announce the arrival of a baby girl born Nov. 8, 1944. Her name is Jane. Ens. Guy Brown of the U.S. Navy Reserve visited the campus on Feb. 19 while he was in Rolla visiting his wife, the former Lucille Hess. He is inspector of naval materiel, stationed at 401 Old P.O. Bldg., Pittsburgh, Pa. Ens. and Mrs. L. E. Lambelet visited the campus on Dec. 26. Lawrence has bought a home at 34 Ridgeview addition, Rolla, and plans to return to Rolla to live after the war is over. Mrs. Lambelet and son will occupy the home until Lawrence comes back.

Lt. Paul F. Ross is piloting a B-24, with base in Italy. He reports having completed 33 sorties, including a few "rough" ones. His permanent address is 3229 Brown street, Alton, Ill. James M. Barclay is with the Land and Engineering Dept., Socony-Vacuum Oil Co., Apartado 246, Caracas, Venezuela. His home is in Wesport, N.Y. Russell A. Gund is with the General Electric Co., Schenectady, N.Y., his home address being 1144 Parkwood Blvd. Lt. T. R. Alford has just returned from an overseas assignment in the Army. Rex visited his home during the early part of December. His home address is Buffalo, Mo. Lt. Bob Ridley is piloting a B-25 and his address is APO 212, 491st Bn. Sqdn., c/o Postmaster, New York, N.Y., as reported by Russel Gund '40. Russell states that Bob would be delighted to hear from any of his friends. W. H. Burgin is now a captain serving overseas in the European theatre of war. Richard W. Burnett is a 2nd lieutenant in the Air Corps, his address being 231st Base Unit (CCTS) (VH), Base Officer, Box 236, A.A.B., Alamogordo, New Mex. Gerald A. Parish is a lieutenant with a Naval Air Base, APO 3247, Fleet Post Office, San Francisco, Calif. His home address is at 635 S. Court street, Platteville, Wis.

Elmer E. Trautwein is working for the National Advisory Committee for Aeronautics, Cleveland Airport, Cleveland, Ohio. His home is at 197 Fair road, Berea, Ohio. James O. Ferrell is a construction engineer for the Columbia Steel Co., in Provo, Utah. His home is 367 N. 8 E., in Provo. Lt. A. J. Kiesler, 0859635, gives his address as D.A.A.F., Deming, New Mex. Milton H. Gee gives a new address of 3618 Venture avenue, Fresno, Calif. John F. Reed writes that he is working with the Manning, Maxwell and Moore Inc., Bridgeport, Conn. He is making his home at 116 Chestnut street, Bridgeport 4, Conn. Joseph H. Egly, according to word received here, has been promoted to the rank of captain. He is assigned at Air Technical Service Command, to the Electronics Unit, Equipment Laboratory, Dayton, Ohio. Lt. James C. Wilson is in the Navy, his address being L.C.I. (M)-1012, c/o Fleet Post Office, San Francisco, Calif. A. R. Herzog is the executive officer on the U.S.S. Mount Baker. His home address is St. Genevieve, Mo.

Ivan M. Niedling writes that he appreciates receiving the *Alumnus* very much as it is the only way of keeping in contact with a lot of his former classmates. He also sends congratulations to the new administration and his best wishes for its success. He is now an inspector of petroleum products in the New Orleans area and works with a large number of oil companies, inspecting and expediting all oil products for the Navy. He reports that Lt. (jg) Ed. Elliot '39 was also working there but has since been transferred to Alaska. Lt. (jg) Niedling gives his own address as 1405 Carondelet Bldg., New Orleans, La. Capt. Ernest L. Perry, who has been at Camp Berkeley, Tex., now has an APO address. It is APO 90, New York, N.Y.

Howard M. Katz Jr. and his wife, the former Sally Holmes, spent the holidays in Rolla with his parents Mr. and Mrs. Howard Katz. Howard Jr. is with the Tennessee Valley Authority at Chattanooga, Tenn. His home address being 12 North Seminole St. Herbert Kamper gives his mailing address as 5611 Mimika, St. Louis 20, Mo. Maj. Charles Ward spent the holidays in Rolla, visiting his parents. Charles has had very extensive experience in the Italian theatre as a Fighter pilot, including operations over the Balkans and into southern Germany. H. D. Sturges is now living at 945 Congress avenue, Glendale, Ohio.

1941

Lt. (jg) R. E. Vaughn is an engineering project officer, with the Bureau of Aeronautics, U.S. Navy Dept., Washington, D.C. He is living at 4009 Longfellow street, Hyattsville, Md. A/C Warren L. Loveridge gives his address as Class 45-D, Group F, Squad 54, Prov. Tng. Wing I, AAFPS-SAACC, San Antonio, Texas. Herbert A. Volz gives his address as NTS (AV. Rad. Mat.) Ward Island, Corpus Christi, Texas. Joe A. Strawhorn is working for Phillips Petroleum Co., and living at 1700 Hilanel drive, Oklahoma City, Okla. A. C. Pautler is an ensign in the Navy, and is on sea duty, his Fleet Post Office being in San Francisco, Calif. Lt. (jg) Kenneth L. Hardine is with a U.S. Navy Construction Battalion, with a Fleet Post Office in San Francisco, Calif. He may be reached by addressing mail to his home in 786 Lombard St., Galesburg, Ill. Seymour J. Beers gives his latest

address as Richville, N.Y. Capt. Jennings R. Lambeth writes from Tooele, Utah that he is still out in the desert and is becoming accustomed to it. He is executive officer of the Desert Chemical Warfare Depot. While on a trip to Washington in September he reports having seen Paul Bouchier '41 while changing planes at Cleveland, Ohio.

Maj. R. M. Sexton is with an Engineer Aviation Bn. APO 126 New York, N.Y. Clyde K. Haney is now stationed in Washington, D.C. His new address is S 1/c, Class 14-15, Sect. 2, R.M.S. Naval Research Lab., Washington 20, D.C. Lt. William Schroeder is in the Navy someplace in the Pacific. His home address is 941 River street, Shawno, Wisc. Robert E. Schweitzer sent a most welcomed check to the *Alumnus* covering his dues for the past four years, along with a compliment that the last few issues of the *Alumnus* have been great. He is a captain in the Air Forces serving in Corsica. William H. Bourne, Lt. CEC, USNR, is in the Underwater Demolition Team No. 8, c/o FPO, San Francisco, Calif. His home address is 115 Main, Washington, Mo. Capt. James W. Jensen writes from a Signal Section, APO 305, New York, N.Y.

Capt. Harold R. Wampler gives his address as Advance Detachment, USF, APO 18514, N.Y. Edwin T. Myskowski is in a Naval Research Lab., Bellevue, Washington 20, D.C. He makes his home at 711 Portland street S. E., Washington, D.C. Lt. Robert K. Boyd gives his address as Navy Department, Officer-in-charge of Construction, U.S. Naval Ammunition and Net Depot, Seal Beach, Calif. Hermann F. Bottcher is assistant foreman of the casting department for the Aluminum Co. of America, the Die Casting Division, Garwood, N.J. He makes his home at 107 Jackson avenue, North Plainfield, N.J. Capt. Floyd P. Smith, who has been for the past two years working out of Alaska and the Aleutian Islands, visited in Rolla on leave over the holidays. Capt. Smith and his wife, the former Ellen Null, left Rolla on Jan. 4 for Geiger Field, Wash., where he will be stationed. His address at Geiger Field is H. S. Co., 813th Engineers.

Leon Hershkowitz visited the campus Jan. 25. Leon is stationed at Ft. Belvoir, Va. His home address is 203 E. 12th street, Rolla, Mo. Ens. C. F. Clarkson is now in the Navy and on overseas duty. Kenneth Frank Kyle is living in Kansas City, Mo., at 1416 Oakley. Lt. J. M. McAnaney, who is held a prisoner in a Japanese prison camp is safe and well according to word received through a friend of Prof. Myron Reed of the Mining Department. John was captured with the fall of Corregidor and taken to a Japanese prison camp where he is still held. This information was made available through the escape of one of the prisoners, a friend of Mack's, last October, 1944. 1st Lt. Eugene P. Boyt is in a prisoner of war camp on the Island of Shikoku, Japan. Mail addressed to Eugene should be sent to his mother, Mrs. George Miller, Drumright, Okla., who will see that it is forwarded to him if it is the type of mail that can be forwarded.

Capt. Andreas A. Andreae is in an Army Air Force Base Unit stationed "somewhere in Egypt." He may be reached by addressing mail to 2723 Budlong avenue, Los Angeles, Calif., where his wife is making her home. Capt. Chris M. Wattenbarger writes to express his appreciation for the *Alumnus*. He reports having passed on his last issue to Lt. N. J. Andresen. Chris is in an Engineering Combat Bn. and writes from Saipan. His home address is 1005 Cherry St., Lamar, Mo. Huey Summers is working with the Wright Aeronautical Corporation, Lockland 15, Ohio. His permanent address is Box 173-C, Route 2, Mt. Healthy 31, Ohio. 1st Lt. William L. Nesley is in a weather squadron and stationed on Saipan. Maj. R. O. Day '25 and W. R. Ellis '39 are reported to be on the same island. Pvt. Paul E. Elliott 37644092 has been moved to Co. A 541TB—IARTC, Camp Howze, Texas.

Capt. Albert B. Farry is project officer with the Hq. A.A.F., Office of Asst. Chief of Air Staff, Material Division M & S, Engineering Branch, Washington, D.C. He gives 916 Sixteenth St. N.W., Washington, D.C. as his home address. Ens. F. B. Rogers writes from the General Ordnance School, Navy Yard, Washington, D.C. Pvt. J. S. Dodge Jr., 39931637, gives his address as I.R.T.C. Schools, E.C.S. Class '26, Fort McClellan, Ala. M/Sgt. Sigmund Gayer gives his address as 56 Alric avenue, New Malden, Surrey, England. Maj. Roy W. Graves is in the Army Air Corps, who was an instructor in geology at MSM. James V. Heddell is a lieutenant

in the Navy, but gives his address as Crystal City, Mo.

1st Lt. James F. Dickmann, ex-41, has completed 30 high altitude combat missions with the German-bombing Eighth Air Force as a navigator on a Flying Fortress. Lt. Dickmann has flown more than 20,000 miles and has dropped over 70 tons of high explosives on targets in Germany and elsewhere. He has been six times decorated and holds the Air Medal with five Oak Leaf Clusters for "meritorious achievement" on some of the biggest bombing attacks on Nazi targets in Europe.

1942

Charles A. Schaeffer Jr. is with the Shell Oil Co., Inc., at Houston Refinery, Box 2527, Houston, Tex. His home address is 1126 Berthea, Apt. 22, Houston. Charles writes that he was married on Jan. 27, 1944 to Miss Anne Manner of Jackson, Tenn. His wife is a graduate of the Texas State College for Women. He also writes that he is attending the local section meetings of the Alumni Association and is enjoying them very much. Lt. (jg) John C. Allen is with the Naval Construction Training Center, E. 2, at Davisville, R.I. Kenneth A. Roffman, who is an ensign in the USN, is stationed at 1019-10, ATB, Little Creek, Va. Lt. T. R. Beveridge is now stationed at Ellix Field, Tex., Box 2007.

1st Lt. A. G. Adler, Fletcher General Hospital, Cambridge, Ohio is recovering from a compound fracture of the left leg. Art received a wound in action against the Japanese, details concerning which are not available at this writing. S/Sgt. Charles R. Trotter is in a Headquarters Company somewhere in England after having been first sent to Normandy. He arrived at his destination sometime in Oct., 1944. He may be addressed at 1108 Bishop, Rolla, Mo., where his family is making their home. Lt. John Henry Lyons writes from Squadron "A," Morris Field, Charlotte, N.C., that he is an engineering officer in an A-20 outfit, but he is unable to predict the future since A-20's are now obsolete. His home address is 953 Bellerive Blvd., St. Louis, Mo. Capt. Gilbert H. Blankenship also writes from the Philippine Islands. He is in the same Engr. Combat Bn. with Capt. William Thayer '42. It was a coincidence that letters from the two captains arrived in Rolla on the same day.

Nick Nicola writes an interesting letter telling of his experiences while assigned to a bomber squadron. He has been in Ecuador, Peru, Guatemala, Costa Rica, Galapagos Islands, and is in Panama at the present. Nick was married to a St. Louis girl when he was home on a leave in August. Richard L. Schumacher is with the U.S. Bureau of Mines, 215 Nash Bldg., Austin, Tex. He lives at 401 Grant avenue, Highland Park, N.J. William M. Thayer is a captain and is stationed in the Philippine Islands at this writing. His home address is 78 West street, Greenfield, Mass. Harold B. Bute is working with the Harbison-Walker Refractories Co., and lives at East Chicago, Ind. John D. Nicholson is a lieutenant in the RAAF, Box 631, Roswell, New Mex., his home address being 5924 Charlotte, Kansas City, Mo. Jack Witt suggests some sort of plaque to those such as "Red" Rayl.

Pfc. Robert F. Winkle, 39861079, is somewhere in France. His address is APO 230 c/o Postmaster, New York, N. Y. Lt. (jg) J. W. Zoller is engineering officer on the USS Dionne. His home address is 2619 S. Peoria, Tulsa 5, Okla. Ens. V. A. Smith Jr. gives his address as M.T.B. Ron 36, FPO, San Francisco, Calif. His home address is 39 Park, Bonne Terre, Mo. Vernon T. Loesing is serving as a captain in an Engineer Battalion, APO 85, New York, N.Y. His home address is Route 10, Box 867, Ferguson, Mo. Julian A. Fuller has written to say that his new address is 503 E. First street, Benton, Ark. Robert M. Carpenter has moved to 434 W. Rose Hill avenue, Kirkwood 22, Mo. Lt. George P. Dahm is making his home at 343 North Canyon Dr., Palm Springs, Calif.

Ens. W. E. Hill, 230426, is stationed at Fort Pierce, Fla., his address being N.A.T.B., Camp 2-Flot 70. Lt. (jg) L. C. Wolff, USNR, has sent Christmas greetings from his ship, the USS Nashville, Fleet Post Office, San Francisco, Calif. Ens. Robert M. Dunham gives as his address Fleet Post Office, Seattle, Wash. E. R. Gordon has moved to 2397 Third street, Phillips, Tex. Dell C. Wade is a junior engineer for the Stanolind Oil & Gas Co., Stanolind Bldg., Tulsa 2, Okla. He resides at 1226 South Galveston, Tulsa 5, Okla. Joseph L. Forinash is with the North American Aviation in Kansas City, Kans.,

his home address being 1710 N. 37th street in Kansas City 2, Kans. Allen L. Lewis is a metal inspector, Humble Oil & Refining Co., in Baytown, Tex. John Smith Jr. is living at 1743 N. Lockwood avenue, Chicago 39, Ill.

William L. Pollock, after just receiving a copy of the Alumnus which had followed through several changes of address, writes the latest news. He was married shortly after graduation. He then served two years in the Navy, all his sea duty being aboard submarines. In Sept., 1944, he received a medical release from active duty, which was also the same month his daughter was born. At present he is employed by the Bureau of Plans and Surveys, Division 10, Missouri Highway Department. His home address is 705 N. Park, Sikeston, Mo.

Sid Rimel sent season's greetings from Box 1386, Phillips, Tex., around Christmas time. He is working for the Phillips Petroleum there. James C. Johnson is in the Navy, as reported by his father. They hear from him about once every three months, so he requested that all mail be addressed to Licking, Mo. William Busch is now living at 512 N. 45th street, Milwaukee 13, Wisc. Robert Billings is an apprentice seaman in USNT at Great Lakes, Ill. Ens. George Engle is now overseas with a Fleet Post Office number, New York, N.Y. Carlyle G. Schauble is with the Seismograph Service Corp., at present in Venezuela. His address being c/o G. H. Speirs, Apartado 1488 Caracas, Venezuela. The home address of the Seismograph Corp. is 709 Kennedy Bldg., Tulsa, Okla.

Al Sindel is an ensign in the Navy, stationed at O.T.D.E4 U, Camp Endicott, Davisville, R.I. Al writes that he is in with a pretty stiff schedule but is making it in a satisfactory manner. He asked to be sent all the Alumni news in the form of the Alumnus and other information. Bob Stowell is an ensign in the Navy, stationed at OTD E4 L, Camp Endicott, Davisville, R.I. He is in training for the Seabees and writes that his instructors are throwing a lot of naval "salt" at him with which his closest contact had been a trip aboard a seaplane tender to see a movie in the harbor in Surinaw. Bob is making the grade, however. He was formerly in South America with the Bauxite Mining and Mfg. Co. He ran across Lt. (jg) George Axmacher in Providence and listed addresses of several other Alumni.

Lt. Charles Edward Zanzie and Helen Margaret Atwell were married at the South avenue Methodist Church in Wilkinsburg, Pa., on Wednesday, February 14, according to announcement from Mr. and Mrs. Clarence Allen Atwell, parents of the bride. Charles graduated in Electrical Engineering in 1942 and is at present a lieutenant in the United States Maritime Service. Lt. (jg) Ed. Chernoff is now stationed at the U.S. Naval Frontier Base, Tompkinsville, Staten Island, N.Y. H. L. Harrod is with the Harbison-Walker Refractories Co., Box 501, Fulton, Mo. News of the marriage of Lt. Harold Haas to Miss Helena Hodge, has been received by friends in Rolla. The marriage took place somewhere in England on Nov. 9, 1944. Lt. Haas has been in England for sometime recovering from wounds received in the African campaign.

S/Sgt. Kenyan V. Harrington has an APO 133 New York, N.Y., but gives his home address as R.F.D. No. 1, Beaman, Mo. Ens. Geo. W. Axmacher writes from a U.S. Naval hospital at New Orleans that he is recovering from an operation. His home address is Apt. 1-A, 485 Gramatan avenue, Mount Vernon, N. Y. Lt. Arthur P. Leisher gives his address as 1st Sig. Radio, Maint Robins Field, Warner Robins, Ga. Lt. Vincent E. Knittel is in Paris. The St. Louis papers recently carried a photograph of Vincent getting information on Paris public utilities from French officials in their capital city. 1st Lt. Paul C. Nelson is now assigned to APO 502 c/o Postmaster, San Francisco, Calif. Arthur W. Wilson gives his new address as G. E. Resident Inspector, Wagner Electric Corporation, 6400 Plymouth avenue, St. Louis 14, Mo.

Lt. (jg) John R. Humphrey is on sea duty in the Pacific. John writes that he is moving around a good deal and has seen quite a bit of excitement, although he sent a picture of himself in fishing regalia and holding a good sized fish which he says he caught deep sea fishing. Some of the boys at Theta Tau house maintain the fish looks as though it had been killed by depth charge, but John states it was landed through his own effort. Lt. (jg) John A. Schwaig is in the Navy, his address being c/o Fleet Post Office, San Francisco, Calif. John L. Zagata is

now a Flight Training Officer and has an APO address c/o Postmaster, San Francisco, Calif. Lt. (jg) Sam A. Kurtz, USNR, gives his address as BOQ, USNAS, Norman, Okla. His home address is Box 75, Bureau, Ill. Capt. Jack Witt writes from England saying that he is once again on a foreign shore and that it is quite a treat after Africa and Italy. He reports that he is among the first American troops in that particular section and they have all been well received by the local inhabitants. Jack has returned to combat duty after being back in the States for a short time. He was wounded while in Italy. His home address is Edina, Mo.

Ens. Ralph H. Brouk gives his address as 1426 Twenty-first St. N.W., Washington, D.C. Arthur T. Guernsey was working for the Shell Oil Co. before going into the service. He is now in the Assembly and Repair Department, U.S. Naval Air Station, Kodiak, Alaska. His home address is 5166 Waterman avenue, St. Louis 8, Mo. Harry B. Smith, 2nd lieutenant Signal Corps, Arlington, Va., is making a temporary home at 4743 Lee Blvd., Arlington Forest, Arlington, Va. Carl F. Schwab Jr. is a lieutenant in the Navy in a bombing squadron. His home address is Kansas City, Mo. Leonard Bolz is junior engineer in the Optical Glass Section of the National Bureau of Standards, Washington, D.C. His home address is 4128 Seventh street N.W. Capt. Robert F. Guilfooy Jr. visited the campus on Nov. 20. Capt. Guilfooy is on furlough after spending 26 months in India. His home address is 7634 Gravois avenue, St. Louis, Mo.

Edward P. Schneider Jr. is with the Chemical Warfare Service, Monsanto Chemical Co., Monsanto, Ill. He lives at 3670 Loughborough, St. Louis 16, Mo. L. Gene Dawson writes that he is in the U.S. Navy and gives his home address as 111 So. Bleckley drive, Wichita, Kans. Lt. Harry Blaine Smith is a 2nd lieutenant with the Signal Corps. His home address is 4743 Lee Blvd., Arlington, Va. Irwin L. Sherrick is associate radio engineer, Naval Research Laboratories, Washington, D.C. Home address, 4028 Nichols S.W. Ens. Orville D. Penrose writes an interesting letter from the Pacific accounting his experiences in the Navy. Orville states that he has been in the New Hebrides islands, various places in New Guinea, and his present address will not pass the censor. He is collecting souvenirs, and has some genuine grass skirts, stones, various sea shells, and even souvenirs of the enemy which he will have available for display on his first homecoming at MSM.

James W. Shaffer is with the Republic Mining and Mfg. Co., at present working in South America. His home address is R.F.D. No. 2, Sullivan, Mo., where mail may be addressed to him. Edward R. Kromka is a 1st lieutenant U.S. Marine Corps Reserve located at the Marine Air Base, El Centro, Calif. Walter Craig Fraser who has been piloting a Thunderbolt (P-47) over enemy territory out of England, has been missing in action over France since June 12, 1944, according to word received from his father, Walter Fraser of Bolckow, Mo. Walter has been awarded the Air Medal and has been recommended for the Silver Star. His younger brother James ex-'45 is now a plebe at West Point after serving one year in the Army. Everett J. Birch is at present employed as mining engineer at Yerington, Nev., his address being c/o Brooks Hotel. Cpl. Rex L. Hopkins is in the 19th Bomb Group, 93rd Bomb Sqn., Great Bend, AAF, Great Bend, Kans. Niles K. Brill writes in that he is now living at 511 Ave. A, Baytown, Tex. George D. Grayer has notified the Alumni office that his address is now 7629 W. Washington street, Milwaukee 14, Wisc.

H. M. Clark is an assistant metallurgist with the Wright Aero. Corp., Beckwith avenue, Patterson, N.J., his home being at 14 Summit Ave., Clifton, N.J. Ralph L. Neubert is an ensign in the Navy, but gives his mailing address as 25 Austin place, Kirkwood 22, Mo. Harry F. Robertson is a corporal in the U.S. Army serving overseas. He is with an Engr. Av. Bn. Before induction in the armed forces, he was employed by the Tennessee, Coal, Iron and R.R. Co., Bessemer, Ala. Melvin C. Flint is a lieutenant (jg) in the U.S. Navy. All mail should be sent to his home at 7439 Hazel avenue, Maplewood, Mo. Gene Gottschalk (Lt. A./C) is an aircraft maint. engr. officer, but his home address is given as 3333 Euclid avenue, Cleveland 15, Ohio.

1943

Arthur Petersen may be reached at 312 Royal avenue, Ferguson 21, Mo., or Co. B, 823rd Engr. Avn. Bn., APO 689, c/o Postmaster, New

York, N.Y. He has just recovered from an attack of malaria. He received his first lieutenant's rating last summer. Lt. (jg) Norman Underhill writes from USS YMS 74 c/o Fleet Post Office, New York, N.Y. He requests that mail be sent to 445 Beach avenue, Mamaroneck, N.Y. Carl J. Weiss, 0866354, is a 1st lieutenant in the 385th Service Group (SP), APO 18015, c/o Postmaster, San Francisco, Calif. H. W. Flood is maintenance engineer, leaching and washing department, Nicaro Nickel Co., Ote, Cuba. He states that he shall be more than glad to do anything towards helping with the Alumni organization at MSM. Lt. William (Bill) Anderson writes from New Guinea that he is with an engineer parts supply company. He reports having run into Lt. G. Wayne Sutterfield and that they were both so surprised that they just looked at each other. Wayne was there about five days, so they had some good sessions about Rolla. He also reports having met a chap in California, a football player, Frank Malik '32, who, by the way, is lost as far as the school is concerned. If anyone knows his address, please send it in.

1st Lt. Roy L. Kackley, 0-517222, gives a change of address to 1366th Engr. Dp, Trk. Co., APO 18000, New York, N.Y. Orville L. Meyer is working with the North American Aviation, Inc., Inglewood, Calif. His home address is 1334 1/2 W. 70th street, Los Angeles 44, Calif. He reports that he was transferred to Inglewood the latter part of August. Keith Cook '42 and Ashton Renwick '42 were also transferred at the same time. "Red" Neumayer ex-'43 was transferred the first part of December, which gives MSM a good representation there. Leonard N. Larson requests the next issue of the Alumnus, and gives a new address as 869th Bomb. Sqdn., 497th Bomb. Group, APO 17159, San Francisco, Calif. Robert P. McMath is a lieutenant in Co. B, 328th Engr. Combat Bn., APO 470, New York, N.Y. Ens. K. W. Radcliffe has an address c/o Fleet Post Office, San Francisco, Calif.

Paul B. Rothband is an ensign in the Navy, his home address being 1237 Huntington road, Kansas City 2, Mo. Gabriel G. Skitek has been promoted to 1st lieutenant in the Air Corps. He is connected with the Air Technical Service Command headquarters and attached to the Propeller Laboratory, engineering division at Wright Field, Dayton, Ohio. Raymond O. Kaston visited the campus on Dec. 27. Ray is employed as research engineer at the Union Wire Rope Co. and is doing graduate studies and research work for the company at Washington University in St. Louis. He and his wife, the former Dorothy Mullenburg and their young son visited Dr. and Mrs. Mullenburg over the holidays. Ray's home address is 7301 Burrwood drive, Normandy, Mo. Edward P. Vollherbst Jr. is on leave from Westinghouse, and wishes that his permanent address be changed to 729 Colonial avenue, Union, N.J. At present he is stationed at Fort Lewis, Wash.

Herbert H. McColgin visited the campus Dec. 16. Herbert is working for the Aluminum Ore Co. in St. Louis. His address is 5138 Washington, St. Louis, Mo. Albert S. DeValve is with the Dominion Manganese Corporation, Grimora, Va., his permanent address being 59 Pacific street, Baldwin, N.Y. Don S. Smith, overseas with the combat engineers, has been promoted to first lieutenant. Don's home address is Salem, Mo. Ens. John V. Driscoll has been transferred from Princeton University to Naval Training School (GL), Hollywood Beach Hotel, Room 589, Hollywood, Florida. Lt. Wesley J. Dolginoff is in France. His home address is 1010 W. 4th, Sedalia, Mo. Lt. (jg) T. R. Hadley is aboard a destroyer in the Pacific theatre of war. Soon after his graduation from MSM he entered in the Annapolis Naval Academy for a 90 day intensive course. He was assigned to brief tours of duty at Philadelphia Navy Yard at Norfolk and was later assigned to the destroyer that he is now on. His home address is 618 E. Maple, Columbus, Kans.

Lt. J. A. Mazzoni writes that he has interesting work in the Air Corps that is keeping him busy, and involves intensive traveling over the United States. John's headquarters are Q.A.T. S.C. Hill Field, Ogden, Utah. Lt. Charles K. Mitchell gives his address as "C" Co., 6th Pioneer Bn., 6th Marine Division, FMF, c/o Fleet Post Office, San Francisco, Calif. S/Sgt. Willis M. Whitfield is in an Engr. Gen. Ser. Regt., H & S Co., with an APO in New York. His home address is Bunker Hill, Illinois. Lt. Donald J. Coolidge has recently gone overseas and

his APO is 17676, New York, N.Y. Francis M. Krill is working for the Aluminum Co. of America, 2210 Harvard avenue, Cleveland, Ohio. His residence address is 9319 Amesbury, Cleveland 6, Ohio. Lt. (jg) Don H. Short has a Fleet Post Office address, USS Indiana, San Francisco, Calif. J. G. Leming is an engineer, transmitter engineering division, General Electric Company, Thompson road, Syracuse, N.Y. He is residing at 426 Ostrom avenue, Syracuse 10, N.Y.

Lt. (jg) Kent Comann sends his best regards from somewhere out in the blue Pacific. He writes to send his recent address and also says, "Believe me, the MSM Alumnus is the one publication I really do enjoy and keep." Mail may be sent to Kent at his home, 1315 Big Bend Rd., Richmond Heights 17, Mo. George Fieweger is in the Navy. His home address is 4272 Holly avenue, St. Louis 15, Mo. T. J. Hoby is a metallurgist for the Republic Steel Corp., 118th and Burley avenue in Chicago. Ens. James Polhemus is at Yorktown, Va., attending the Naval Warfare School. His address is Yorktown, Va., Box 216. Lt. Joseph T. Adams is with an Engr. Maint. Co. on foreign duty. Joe is now the father of a son Stephen Thornton born on Feb. 7. Mrs. Adams and son reside at 509 West 5th St., Rolla, Mo. Lt. Emil T. Ruble visited the campus in January. Emil is with Co. A, 26th Signal Training Bn., Camp Crowder, Mo.

Lt. Albert O. Keevil is now stationed at ASF Personnel Replacement Depot at Indiantown Gap Military Reservation, Indiantown, Pa. Ira Perkins is in England and a 1st lieutenant, Company Commander in an Engr. Combat Bn. Leonard R. McGowen, S 1/c, is in Co. 28, Sec. 3, Billet 304, Navy Pier, Chicago, Ill. Kenneth E. Meyer is residing at 20 N. L street, Pensacola, Fla. Lloyd C. Schumann S 1/c writes from Bat. 1; Platoon 4, NTS (EE & RM) US NTC, Gulfport, Miss. His home address is Box 377, Rosiclare, Ill. Irene Davis is still an employee of Revere Brass & Copper, having recently been transferred to Chicago, Ill. Her home address is 211 N. Elmwood, Oak Park, Ill. Lt. Enos L. Key went into France on D-day and is now in Belgium according to word received from his mother. He may be addressed at his home 404 S. Rotan avenue, Salem, Ill., and correspondence will be forwarded. Oscar L. Davis is working for the Aluminum Company of America, Massena, N.Y. His home address is the Alcoa Club.

William Wilson Jr. is assistant metallurgist at Armour Research Foundation, Chicago, Ill. James V. Carroll visited the campus on Oct. 5. Jim is a metallurgist with the Aluminum Co. of America at Massena, N.Y. His home address is 2 Laurel avenue, Massena. Herman Pracht has been transferred from Massena, N.Y., to Alcoa, Tenn., where he is working for the Aluminum Company of America. Lt. Wesley Dolginoff has APO No. 7946 c/o Postmaster, New York, N.Y. 1st Lt. Clarence A. Lambelet wrote from somewhere in Holland. Lt. J. P. Berndt has APO No. 230 c/o Postmaster, New York, N.Y. Lt. R. K. Rasmussen has APO No. 689, New York, N.Y. L. W. Higley Jr. visited the campus on Oct. 13. Bill is with the Western Electric Co. in Chicago. His home address is 5404 Washington, Downers Grove, Ill.

Capt. George H. Thomas is on the Palau Islands in the Pacific. George writes to the Sigma Nu house that he is having quite a time with the Japs, both dead and alive. He has gone through his first D-day without serious mishap. In a later letter he recounted his experiences in landing on a Jap held island. He made the landing safely and wrote that among some of the souvenirs he collected was a samurai sword with a pearl inlaid handle and a scabbard. Buzz states that he has been offered \$500 for it but after what he went through to get it no price would buy it.

Lt. Norbert W. Battermann is with the 1472 Engr. Maint. Co., Camp Moxey, Tex. Ens. Edward Thomas Kendall is on sea duty, his address being c/o Fleet Post Office, San Francisco, Calif. Lt. Horace L. Magee is with the Corps of Engineers, serving overseas with an APO in San Francisco, Calif. His permanent address is 105 West Tenth street, Caruthersville, Mo. Stan Dabal was formerly employed by the Cooperative Refinery Association, is now serving in the Navy. Harold R. Hill is working with Westinghouse Electric & Mfg. Co., 1625 W street N.W., Washington, D.C. He makes his home at 4810 Third north, Arlington, Va.

E. Harvey Barnett S 1/c, USNR, has written from Co. 1028 NTS, Hugh Manley School, 2935 W. Polk, Chicago 12, Ill. He requests that any mail be sent to Linn Creek Route, Lebanon,

Mo. Lt. Ambrose E. Pritchard 0881029 has written that he is now stationed in India and is seeing a bit of the world in the Air Transport Command, his APO being No. 492 c/o Postmaster, New York, N.Y. Ens. Ned Swallow is on sea duty in the Atlantic, but may be reached by addressing mail to Stitzer, Wisc., c/o Roscoe Swallow. John V. Boland Jr. is a partner of John V. Boland Construction Co., 2715 Dalton avenue, St. Louis, Mo. Edward E. Gygas is an ensign in the Navy, his address being c/o Fleet Post Office, San Francisco, Calif. Ralph Elsea is an aviation cadet, Class 45-B, Box 720, IAAF, Independence, Kans. His mailing address is 255 Julia avenue, East St. Louis, Ill. Ens. Vernon Flessa is connected with the Commander Escort Division 69. Mail should be addressed to him at 1617 E. Broadway, Sedalia, Mo.

Ens. Howard B. Liley is on the USS Salinas (AO-19) c/o Fleet Post Office, San Francisco, Calif. Ens. William D. Kent is on sea duty in the Pacific. Bill writes that he is expecting to return to the mining profession as soon as the Navy is through with him. Fred Radavich is working for the Navy at MIT. Fred writes that he is taking some work of a graduate nature looking toward receiving his Doctor of Science degree in physical metallurgy with a minor in inorganic chemistry. His home address is 290 Massachusetts Ave, Cambridge 39, Mass. Capt. Sherald F. Heneghen is with an Engineer Battalion in Holland. Lt. Jean Shipman is at Camp Claiborne, La., Co. C 1329 Engr. Gen. Ser. Rgt. Ashmet Pekkan, former graduate student at Stanford University, is working as assistant engineer for the Bradley Mining Co., Yellow Pine mine, Stibnite, Idaho.

Fred E. Dreste Jr. gives the information that he will be staying at the Hotel Kenmore, Boston, Mass., until about January or February, when he will be at General Electric Co. Radio Transmitter Engr. Bldg. No. 81, 1 River road, Schenectady, N.Y. Henry N. Sloan of the Merchant Marine visited the campus in early October. Henry is employed by the Keystone Shipping Co., 260 S. Broad street, Philadelphia 6, Pa. 1st Lt. Howard W. Durham is on foreign duty, his address being APO 17126 c/o Postmaster, New York, N.Y. Lt. G. Wayne Sutterfield has a new address of APO 5831 c/o Postmaster, San Francisco, Calif. Frederick M. Kiburz is in the Navy, his address being A & R, NAS, San Diego, Calif. Meredith and his wife visited the campus on Nov. 6. Ens. William E. Klund is in the radar school of the Navy at MIT. His home address is 418 Beacon street, Boston, Mass.

Clyde H. Krummel is living at Apt. 8, 618 Delaware avenue, Bethlehem, Pa. He is employed by the Bethlehem Steel Co. He was a recent campus visitor. Earl Bierman has removed from Ferguson, Mo., to 210 Norton Pl., Corpus Christi, Tex. Robert L. Hanna is a radar production engineer with the General Electric Co., at Syracuse, N.Y. His home address is Thorden Lodge, 426 Ostrom Ave., Syracuse 10, N.Y. Lt. E. S. Fris gives his address as A W S - 9, AWG-2, MCAD Miramar, San Diego 45, Calif. Lt. Leo G. Springer gives his address as 204th Engr. (c) Bn., APO 403 c/o Postmaster, New York, N.Y. Lt. W. H. Bassett 0-544295 is in a Maintenance Company in New Guinea. Ens. Erwin E. Henderson is on military leave from Alcoa, and is now on sea duty in the Pacific. A permanent address is 3815 Tamm avenue, St. Louis, Mo.

1944

Henry S. Adamick, S 1/c Co. 44-517, is at the U.S. Naval Training Center, San Diego, Cal. Mrs. Adamick, the former Miss Freda Brown, of Rolla, and their baby daughter were Rolla visitors recently. The little daughter, named Jacquelyn Sue, was born Aug. 8, 1944. 2nd Lt. Russell E. Frame, USMCR, spent a ten day leave in Rolla beginning Sept. 1. Rus' new address is Engr. Trg. Com., Fleet Marine Force, Camp Lejeune, New River, N.C. Ens. Roger Heidenreich who has been in naval training school at Fort Schuyler, N.Y., is now in naval training school at Princeton University. Glenn Edward Dean is in the Navy, his address being Co. 1875 GLNTC, Great Lakes, Ill. Ens. Jean McCaw Lloyd, daughter of Prof. and Mrs. S. H. Lloyd, spent leave in Rolla the early part of November. Ens. Lloyd had just finished training in the radar field at MIT and is now stationed at Norfolk Navy Yard. Her address is Commandant Norfolk Navy Yard, Attn.: RMO, Portsmouth, Va.

Ens. J. Richard Hansen is taking radar work at MIT under the Navy program. W. J. Barnett is with the research department of the American

Steel Foundry Co. at East Chicago, Ind. His home address is 3914 Fir street, East Chicago, Ind. Guillermo Sauri has accepted a position to work at the Mina Aguilar, Tres Cruces, Prov. de Jujuy, Argentina. Ernest Massard who is with the Chrysler Corporation, was a campus visitor recently. Ernest gives his home address as 64 W. Buena Vista, Highland Park 3, Mich. Allan S. Reichert is going to a navy service school in Washington, D.C. He is a S1/c and gives his address as Class 7-2-1-A, Advance Fire Control School, Receiving Station, Washington, D.C. Louis A. Hartcorn is at Annapolis, Md., with the NAF, Aero. MATTS. Dan J. Stocker is working for the Aluminum Ore Co., 3300 Missouri avenue, East St. Louis, Ill. He is living at 2933 Bond avenue, in East St. Louis.

Ens. W. L. Larson, USNR, is taking a post graduate course in Naval architecture at the University of Michigan. His address is Room 484, University of Michigan Union, Ann Arbor, Mich. E. A. Weinel is in the Navy and writes that he is in Co. B, 109th Bn., I R T C, Camp Robinson, Ark. His permanent address, however, is 3219 Forest place, East St. Louis, Ill.

Robert Jamison was a campus visitor Oct. 12, 1944. Robert is now serving in the U.S. Navy, but gives his home address as 504 Brinton Ave., Dixon, Ill. Robert E. Murphy writes from Fort Monmouth, N.J., that he graduated and received his commission from OCS in June and expected to leave for assignment to a combat unit at this writing. Bob Balin who was formerly a process engineer with the Cooperative Refinery Association, is now in the U.S. Navy. Ens. H. D. Barnhart is in the U.S. Navy, his address being RMO Bldg. 197, Charleston Navy Yard, Boston, Mass. His mail may be received at 4700 South Walker, Oklahoma City, Okla. Robt. W. Mellis, A/S, USNR, gives his present address as Midshipman School, Area E, Bks., E 62, N C T C, Camp Endicott, Davisville, Rhode Island, but he wishes to keep his home address, 7354 Country Club drive, St. Louis 21, Mo. on the mailing files. Bob writes that he is in school in a "Seabees" unit, and at the end of six weeks he will be commissioned, and will then be attached to the Construction Battalion.

Albert Hoffman Jr. is a private in the Infantry, Co. D, 34th IRT Bn., and is stationed at Camp Croft, S.C. His home address is 3620 Leeward avenue, St. Louis 21, Mo. J.H. Van Os is in the Navy in the radio technicians program at Del Monte, Calif., where he is attending ten months of school following boot camp. With him is Glenn L. Staley. Ens. Roger D. Moeller is in a destroyer pool school of the Navy. His address being NTS, NOB, TOQ L-29, Norfolk, Va. Roger writes that he is looking forward to visiting Rolla in the spring after finishing school. William Rule is an ensign on sea duty in the Pacific. He has been assigned as engineering officer for his ship. He may be reached by addressing any mail to Parsons, Kans. Ty D. Maintz, 37641660, is a private in the Infantry with an APO number in New York, N.Y. Edwin A. Zwald is geological scout with the Union Producing Co., Box 1511, McAllen, Tex. Edwin and Mrs. Zwald announce the arrival of a baby boy, Edwin Arnold Jr., born Nov. 17, 1944.

Joe Jenkins is employed by the National Advisory Committee for Aeronautics, Metallurgy Laboratory, Cleveland Air Port, Cleveland, O. His home address is 1485 West 114th street, Cleveland 2, Ohio. Paul Kasten gives his address as 211 E. 4th St., Jackson, Mo. Ens. James R. Miller was married in the east to Miss Pearl Edith DeOrsey. Jimmy is attending MIT under the Navy's Radar program, his home address being N.T. School (Radar), MIT, 470 Atlantic avenue, Boston, Mass. Robert O. Dietz resides at 3706 West 117th street, Cleveland, O. Ens. Frank O. Schofro is stationed at the University of Arizona, Naval Training School (indoctrination), Tucson, Ariz. Ens. Pearl G. Smith is in the Pre-Radar School at Harvard University. His home address is B 23 Winthrop House, Cambridge, Mass. Richard Piasicki's new mailing address is 5326 Sunshine drive, St. Louis 9, Mo. Bob Banks has been reported to be process engineer on the 100 Octane Plant, Cooperative Refinery Association, Coffeyville, Kans. His address is Box 91.

Charles Sparks has moved from Monaca, Pa., to 359 Beaver street, Beaver, Pa. Pvt. James D. Gostin is in Co. D, 28th Bn. 2nd Platoon, ASF TC, Fort Leonard Wood, Mo. Charles E. Brockmeyer is with the Wagner Electric Corp., in St. Louis, his home being 323 Orchard avenue, Webster Groves 19, Mo. Fred E. Nevin gives

his new mailing address as 257 Villa, Elgin, Ill. Alan J. Fuchs is at the Great Lakes Naval Training Station, Great Lakes, Ill. Alan Ploesser writes from his position at North American Aviation that he is trying to convince everyone that MSM is the best school in the world. Al gives his mailing address as Inter-fraternity Club, 3539 Gillham road, Kansas City 2, Mo. Lt. Charles D. Geiger is serving with the U.S. Army Engineers, team training group, H.Q. ASFTC, A. P. Hill, Fort Belvoir, Va. He gives his home address as 614 N. High street, California, Mo.

Glenn L. Staley Jr. writes that he appreciates the efforts of those concerned in keeping warm the memories of the days of the School of Mines by the publishing of the Alumnus. Glenn is in the Navy, S 2/c, and is stationed at Del Monte, Calif. His permanent address is 4434 S. 37th street, St. Louis, Mo. Ens. Albert W. Presnell, CEC-V(S)USNR, gives his address c/o Fleet Postmaster, San Francisco, Calif. Pvt. Donald W. Frommer, 17106270, is in Co. D, 62nd ITB, 16th Regt., IARTC, Camp Howze, Tex. Clarence L. Merrell, USNR, is at the U.S. Naval Air Station, Ottumwa, Iowa. Roy H. Adams has moved to 1011 Jackson street, Fort Wayne, Ind. Robert H. Heidenreich is an ensign in the Navy, and has the address NTSch. 470 Atlantic Ave., Boston 10, Mass. Ens. E. J. Waltenspiel gives his address as USS LST 473 c/o Fleet Post Office, San Francisco, Calif. 2nd Lt. John L. Krall has been sent overseas and given an APO 18279, San Francisco, Calif.

T/5 S. L. Simons is in the Corps of Engineers, U.S. Army, PO Box 1663, Santa Fe, New Mex. Ens. Richard E. Wampler is with the USN ATB, Solomons Branch, Washington, D.C. Robert M. Montgomery is at a West Coast Sound School, c/o BOQ, San Diego, Calif. He prefers that his home address, 546 N. Ranney avenue, Sikeston, Mo., be used. Ens. Earl M. Kane gives his address as USS LST 479, c/o Fleet Post Office, San Francisco, Calif. His home address is Rt. 1, Box 126, Granite City, Ill. John W. Doman is now living at 1565 Marlow, Lakewood 7, Ohio. Vernon Pingel is with Curtiss-Wright Corp., Buffalo, N.Y. His home address is 203 Hutchinson, Buffalo 15, N.Y. Lt. Kenneth W. Schoeneberg is somewhere overseas. His APO number is 17604, c/o Postmaster, New York, N.Y. Herman O. Brinkman is in the radio technician school of the Navy stationed at Great Lakes, Ill. His home address is 3146 Arsenal, St. Louis, Mo.

John R. Riggs is employed by General Electric at Erie, Pa. His home address is 852 Rumsey avenue, Lawrence Park, Erie, Pa. Francis S. Nelson is an ensign in the Navy, and at this writing is in the USN Hospital, Portsmouth, Va.; however, he may be reached by addressing mail to 421 South Colorado, Kansas City, Mo. Edward M. Schultz is working for the Columbia Steel Co. in Torrance, Calif. He is residing at 642 W. 101st street, Los Angeles, Calif. Warren Helberg is an ensign in the Navy and is now on sea duty. He has a Fleet Post Office in San Francisco, Calif. His home address is 1525A Union Blvd., St. Louis 13, Mo. Peter Mushovic visited the campus on Nov. 24. Pete and Bob Kick are with the Moraine Products Division of General Motors. They are living at 42 Stratford avenue, Dayton, Ohio. James D. Dowd is working with the Aluminum Company of America, in the aluminum research laboratories. He lives at 332 Freeport road, New Kensington, Pa.

MISCELLANEOUS

Lt. R. M. Rock ex-'45 gives his address as APO 11176, c/o Postmaster, San Francisco, Calif. Keith G. Novinger ex-'36 is principal assistant engineer with E. I. du Pont de Nemours & Co., at Hanford, Wash. His home address is 804 Van Giesen, Richland, Wash. Keith writes that he is married now and has three children, the oldest of which will be ready for school next fall. 2nd Lt. Curtis G. Chapman ex-'42 who was reported missing in action over Germany since Nov. 30, 1944, is a prisoner of war of the German government according to a report from the International Red Cross sent to his parents by J. A. Ulio, adjutant general. Lloyd L. DeWester, 2/c, ex-'47 is in a USNT School (Radio), Div. 49, 30th and White River, Indianapolis 8, Ind. Arthur Tapperson ex-'46 has finished the electrician's mate school and has a rating of fireman second class. Art is expected home on Nov. 24. Harold W. Bachman ex-'45 is in the Navy, his address being Island Command,

Navy No. 926, c/o Fleet Postmaster, San Francisco, Calif.

William D. McMillan, ex-'46, who has been in the V-12 program at Park College near Kansas City is now being transferred to the East Coast. Pvt. Teddy R. Wolfarth ex-'46 gives his address as APO 493, New York, N.Y. Mike Deichmann ex-'46 and Harold Moe ex-'46 are cadets at the U.S. Merchant Marine Cadet Basic School, San Mateo, Calif. Red Reader ex-'45 has recently completed this course and has shipped out. A. Kent Allen ex-'45 is in the V-12 program at the University of Illinois. Kent visited the campus on Feb. 7. His address at Urbana is Co. D, Platoon 1, U.S. Naval Training Unit, University of Illinois, Urbana, Ill. Norman L. McCutchen ex-'44 visited the campus on Feb. 7. Norman is with the Monsanto Chemical Co. and is living at 5008 Sutherland avenue, St. Louis, Mo. Harold Rueff ex-'42 is a lieutenant in the Navy on board the USS Berrien some place in the Pacific. Robert E. Fischer ex-'46 has recently been awarded Air Medal with three Oak Leaf clusters for meritorious service. Robert's home is in St. Louis, Mo., 4955 Leahy street.

Midn. Edward W. Blase ex-'45 USNR gives as his address USS Prairie State, W. 135th St. and North R., New York 27, N.Y. Section 2. Robert P. Ropke ex-'40 visited the campus on Feb. 5. Bob is with the McDonnell Aircraft Corporation in St. Louis and was here with Mr. Wm. S. Walker, interviewing May graduates for employment by that company. Bob's home address is 9247 Clayton road, St. Louis, Mo. John M. Moore ex-'44 was commissioned an ensign in the U.S. Naval Reserve upon his graduation recently from the Naval Air Training Base at Corpus Christi, Tex. John's home is 47 Sylvester Rd., Webster Groves, Mo. Pvt. B.J. Sexauer 37636665 ex-'46 is in Co. B, Misc, APON 11184, c/o Postmaster, New York, N.Y. A/C Calvin Duke ex-'45 is at Athens, Ga., his complete address being Batt. 63, Co. O, USN Pre-Flight School, Georgia University, Athens, Ga.

Carl Olfe A/S ex-'46 is in Co. 2096 USNTC, Great Lakes, Ill. Lt. G. E. Burke 0553731 ex-'44 gives an overseas address of Co. A, 257th Engr. (C) Bn., APO No. 17126, c/o Postmaster, New York, N.Y. Arthur Tapperson Jr. F 2/c, ex-'45 is stationed at Great Lakes, Ill., his address being E 8-4 Barracks 411, U.S. Service School Command. Cpl. Robert J. Yochum, 37633189, ex-'45 is at the Boca Raton Army Air Field, Fla., in BMC No. 3, Section L. R. Allen Crosby S1/C 874-12-42 ex-'45 gives his address as USN RB 0942, Shoemaker, Calif. George J. Juenger Jr. S 2/c, ex-'46 is located at Providence, R.I. Pvt. William K. Hackel 37629158, ex-'46 is in the Infantry stationed somewhere in England. Robert E. Entzeroth F 1/c, ex-'46 reports that his address is Div. 10-1 I US Naval Repair Base, San Diego 36, Calif.

Robert E. Hackmann F 1/c, ex-'45 reports that his address is 874-40-84, Amphib. Training Base, Camp Bradford, Va. Donald H. Koch S 1/c, ex-'45 is stationed at Room 105, Cordell Hall, Oklahoma A & M College, Stillwater, Okla. Charles Reed Jr. S 1/c, ex-'45 may be reached by addressing mail to Oklahoma A & M College, Stillwater, Okla. Staff Sergt. Arthur H. Frentrop 37609242, ex-'46 is with the 1st Bn. Hqs. Co., 232nd Inf., APO 17797 c/o Postmaster, New York, N.Y. L. L. Donnan ex-'87 has sold his business in Provo, Utah and visited in Rolla during December.

Pvt. J. C. Vogt ex-'45 gives his address as 37649449 Co. A, 58th Inf. Tng. Bn., Camp Walters, Tex. Lt. Edward B. Blair ex-'44 is with the 269th Engr. C. Bn., APO 417, Camp Shelby, Miss. Arliss V. Martin ex-'43 visited the campus on Dec. 14. Arliss has been twice shot down in aerial combat as navigator of a B-24 working out of England. He left the States on May 1 of this year and had to bail out twice from his wrecked plane. W. J. Goodwin ex-'44 is serving overseas in an Engineer Combat Bn., and reports that he met Capt. Jack Witt somewhere in England, and enjoyed reading Jack's copy of the Alumnus. Pvt. Ro E. Goodwin ex-'44 gives his address as Det. Engr. Sec. Alaska Dept., APO 729, c/o Postmaster, Seattle, Wash. Pvt. Goodwin is stationed in the Aleutians.

Lost

The alumni listed below are lost on the Alumni records. Anyone knowing the whereabouts of these men are urged to send the address to the secretary of the Alumni Association, Rolla, Mo. The list gives the name and the last known address. This begins with the class of '19. The lost before that time are included in the Alumni Directory.

1919

Vivien X. Smiley, 216 West McLeon St., Alhambra, Cal.

1920

William L. Niece, Ramsey Tower, Oklahoma City, Okla.

Frederick V. Moore, Gardner Denver Co., 11 Church St., New York City.

Joseph Novak Jr., 2108a Geyer Ave., St. Louis, Mo.

Daniel C. Beyer, Battle Mountain, Nevada.
Clifford P. Howard, Capels, West Virginia.
John L. Howendobler, 3800 S. Vermont Ave., Los Angeles, Calif.

1921

Howard O. Norville, Arizona Hwy. Dept., Holbrook, Ariz., Box 398.

Heng Yung Ma, Box 153, Carnegie Tech, Pittsburgh, Pa.

Victor K. Fischer, 1302 S. Gary place, Dallas, Texas.

Meyer Gollub, 2500 Pea St. N.W., Washington, D.C.

Hyman I. Albert, 4a Calle de Rivera, Or. No. 44, Tampico, Tamps., Mexico.

William H. Baxter, Baxter Co., Investments, 40 Wall St., New York City.

Robert Bruce Jr., 414 N. Washington Ave., Wellington, Kans.

Kuang-Yu Chang, president, Homan University, Kaiping, Honan, China.

1922

Roger I. C. Manning, University of Utah, Salt Lake City, Utah.

William F. Hoke, 526 So. Xanthus Ave., Tulsa, Okla.

James M. Forgotson, Middle Rio Grande Conservancy, Albuquerque, New Mex.

Alvis F. Denison, Grants, New Mex.

Otto Ehler, 4442a Virginia, St. Louis, Mo.

Howard S. Crawford, Mo. State Highway Dept., Sikeston, Mo.

Lt. Lewis E. W. Lepper, Quartermaster Corps, Fort Bragg, N.C.

1923

Robert E. Richards, 48 Waltham St., Hammond, Ind.

Virgil L. Whitworth, 917 Lipscomb avenue, Fort Worth, Texas.

Desiderius Zimmerman, Superior Mine, Superior, Wyoming.

Harry Charles Loesche, Box 67, Wichita Falls, Texas.

Earl H. McAlpine, Lutie, Okla.

B. F. Hoover, Box 2363, Bisbee, Arizona.

Morris J. Ingerson, Asheville, N. Carolina.

Julian G. Huckins, Box 905, Charleston, S.C.

Wilbur J. Darby, N. J. Zinc Co., Palmerton, New Jersey.

Milburn L. Dorris, 174 Willow street, Waterbury, Conn.

Joseph John Haberthier, Box 804, Wadsworth, Kans.

Owen R. Evans, Supt. of Construction, Veterans Admin., Brecksville, Ohio.

Earl McKinley Guy, 1728 So. Spring street, Springfield, Ill.

Paul M. Brown, 210 N. Taylor, Kirkwood, Missouri.

Oscar L. Brandenburger, 1528 Drexel Ave., Miami Beach, Fla.

1924

Edward E. Robertson, Route 1, Spring Hill, Tennessee.

Arch Waugh Naylor Jr., 1029 South Hope avenue, Los Angeles, Calif.

Carl W. B. Sitzler, Orlando Hotel, Decatur, Illinois.

Leon S. Howald, 1905 So. Broadway, Pittsburg, Kans.

George C. Gabler, Shell Pet. Corp., St. Louis, Missouri.

Philip L. Blake, Dept. of Agr., West Wing Adminis. Bldg., Washington, D.C.

Jean P. Bryan, Box 97, c/o District Engr., Memphis, Tenn.

1925

Wyatt E. Simpson, 1400 Wyoming street, Kansas City, Mo.

Paul E. Whitesell, Iowa Highway Dept., Shell Rock, Iowa.

James E. Stogsdill, 351st Eng., Camp White, Medford, Ore.

Thomas M. Thompson, 6106 University Ave., Chicago, Ill.

George Brown Letts, 7807 East 3rd, Tulsa, Oklahoma.

Oscar W. Johnson, Box 422, Cherokee, Okla.

Keith O. Alexander, 2224 Addison, Houston, Texas.

Paul K. Meng, 527 Federal Bldg., Pittsburgh, Pennsylvania.

Lawrence H. Sanderson, Murray Hill Hotel, Sault Ste. Marie, Mich.

1926

William Lyman Miller, 133 Lowell street, Redwood City, Calif.

James P. Moore, APO 3006, c/o Postmaster, New York, N.Y.

Paul A. Smith, County Engr., Sand Springs, Oklahoma.

Harold S. Thomas, Prod. Div. of Petrol. Adm., Chicago, Ill.

Charles D. Craig, 103 Church St., Bonne Terre, Mo.

1927

Paul G. Waddell, 745 E. Monroe St., Springfield, Mo.

Hugh Thomas, Magma Copper Co., Superior, Arizona.

Roy Gunther, 51 E. 42nd St., New York, N.Y.

John E. McCauley, 120 So. LaSalle, Chicago 3, Illinois.

1928

Harold H. Newcombe, 510 Wood street, Coraopolis, Pa.

Floyd E. Sewell, 6059 Marquette Ave., St. Louis, Mo.

Burl Y. Slates, 106 Inman Circle, Atlanta, Georgia.

Robert H. Sturgess, International Nickel Co., Sudbury, Ontario.

Howard Histed, U.S. Navy Yard, Mare Island, Calif.

George C. Johnson, c/o Columbia Steel Co., Pittsburg, Cal.

Robert K. Grantham, Butler, Ind.

Karl A. Allebach, 4653 Hollywood Blvd., Los Angeles, Calif.

John E. Antener, 222 Lexington Ave., Buffalo, N.Y.

1929

David B. Meshevsky, Emerson Electric Co., St. Louis, Mo.

Charles LeClair King, 1721 Appleton street, Parsons, Kans.

Francis Amos McCurdy, 2405 N. 12th, Kansas City, Kans.

Harlow G. Jones, 831st avenue., Bn., Fresno, California.

Boris N. Daniloff, 4606 Avenue K, Brooklyn, New York.

1930

Dennis H. Miller, Richmond Heights 17, Mo.

John G. Roy, U.S. Engineers, Nebraska City, Nebraska.

Ferdinand F. Netzebrand, 1902 Pennsylvania Ave., Joplin, Mo.

Andrew C. Shearer, 7458 Kingston avenue, Chicago, Ill.

Frank W. Bailey, U.S. Engrs., Norfolk, Va.

John Lee McCumber, 525 So. Douglas Ave., Springfield, Ill.

Earl Josiah Gregory, 5665 Argentine road, Fenton, Mich.

1931

Maurice F. Murphey, 110 Washington place, New York, N.Y.

John D. Shelton, Thilo Bldg., Columbia, Mo.

Clifford F. Page, 1530 M street, Gering, Neb.

Ralph P. Thomas, Box 381, Mott, N. Dak.

Ruel Lee Kirkpatrick, Lake City, Mo.

John B. Huebner, U.S. Engineers, Gay Bldg., Little Rock, Ark.

Willis G. Fish, U.S. Engrs. Office, Pittsburgh, Pennsylvania.

Milburn Hassler, 906 Courthouse & Custom House, St. Louis 1, Mo.

Raymond J. Haffner, c/o Div. Engr., APO 722, Minneapolis, Minn.

Ben R. Elliott, 1623 Lincoln street, Berkeley, California.

Charles E. Ross, 911 W. 2nd street, Huntington, W. Va.

Hoyt R. Wallace, 406 Kennedy Bldg., Tulsa, Oklahoma.

1932

Royal V. Prevallet, 1509 16th street N.W., Washington, D.C.

Richard Rydstrom, 7155 Amherst avenue, University City, Mo.

Frederick G. Wilson, 327 Drexel avenue, Detroit, Mich.

Frank M. Thoroughman, BOQ, Randolph Field, Tex.

Vernon Leslie Klesath, 716 North 11th street, Mt. Vernon, Ill.

Richard Lee McCreight, 1676 Cable street, San Diego, Calif.

Ernest W. Jones, Box 271, Sedalia, Mo.

William T. Kay, 1212 6th avenue South, Seattle, Wash.

Clarence W. Grate, 8 West 7th street, Fulton, Mo.

Stuart L. Davis, U.S. Engineers, Ste. Genevieve, Mo.

David Cutler, 130 E. 6th street, Chester, Pa.

Eusiba M. Agonias, 309 South Loomis street, Chicago, Ill.

Edwin O. Crawford, 483 Oakdene avenue, Cliffside Park, N.J.

Harvey C. Chaden, 1301 S. Kildare, Hawthorne Sta., Chicago 22, Ill.

Willard A. Gallemore, Box 2825, Juneau, Alaska.

George L. Leisher.

1933

Elmer A. Roemer, c/o U. S. Engineers, Memphis, Tenn.

Curt H. Schmitz, 1914 Granada, San Diego, California.

Alvin A. Wehrman, 1036 Jefferson avenue, New Orleans, La.

Herbert E. Thilenius, 230 Kensington place, Bridgeport, Conn.

Charles Henry Lambur, U. S. Army, Fort Belvoir, Va.

Ernest W. McClure, Army Air Base, Jackson, Miss.

John Douglas Martin, 2800 Boston avenue, Tulsa, Okla.

Kenneth Hoevel, National Supply Co., Oklahoma City, Okla.

Earl R. Jenkins, 7603 Wyandotte street, Kansas City, Mo.

Alexander W. Jurvic, 727 Highland avenue, Steubenville, Ohio.

Kenneth E. Evans, Allied Engr. Co., Cleveland, Ohio.
 Harold M. Hall, Box 903, Ft. Peck, Mont.
 Marcellus G. Handly, 2155 Atkins avenue, Lakewood, Ohio.
 William A. Brown, 3142 Prospect road, Peoria, Ill.
 Robert G. Langehennig, Gen. Del., Miami, Florida.

1934

James E. O'Bryant, Republic, Mo.
 Guy Roberts Miles Jr., Dupon, Ill.
 John J. O'Hearn, 314 N. Mirick, Denison, Texas.
 Robert A. Sackewitz, Engineering Aide, Soil Conservation Service, Palmyra, Mo.
 Kenneth H. Sievers, 936 N. Simmons, Kirkwood, Mo.
 Ralph A. Tiemann, 2111 Princeton place, St. Louis, Mo.
 Gilbert Louis Krattler, Box 291, Dayton, Tennessee.
 Frederick W. Hurd, 522 Sycamore lane, Lansing, Mich.
 Walter J. Irwin, 363 W. 11th North, Provo, Utah.
 Samuel A. Bermi, 7139 Dartmouth avenue, St. Louis, Mo.
 Richard H. Beck, 121 E street N.W., Miami, Oklahoma.
 Fulton H. Campbell, 1127 East 75th street, Kansas City, Mo.
 Lauren P. Tuttle, 398 East View drive, Chattanooga, Tenn.

1935

James J. Murphy, 4376 Olive street, St. Louis, Mo.
 Anthony J. Szezuka, Fort Peck, Mont.
 Arthur R. Towse, 15160 Penrod, Detroit, Michigan.
 John William Mashek, 5120 Northland Ave., St. Louis, Mo.
 Fred William Klee, 1201 Davidson Bldg., Kansas City, Mo.
 Andrew T. Frank, 542 Summit Ave., Schenectady, N.Y.
 Otto E. Geldmacher, 3140a South Compton, St. Louis, Mo.
 Edwin L. Dudley, Harbison-Walker Refractories Co., St. Louis, Mo.
 William G. Graff, 123 Orchard street, Somerville, Mass.
 Howard B. Haddock, Southwestern Bell Telephone Co., St. Louis, Mo.
 Edward A. Huffman, 300 Insurance Bldg., Topeka, Kans.
 Herman M. McKinney, Emerson Electric Co., 2018 Washington, St. Louis, Mo.
 Verner D. Morgan, Municipal Auditorium, New Orleans, La.

1936

Edward A. Roy, 5319 Shreve avenue, St. Louis, Mo.
 William C. Twyman, 511 Volusia avenue, Dayton, Ohio.
 Morris Harold Grober, 736 Howard avenue, St. Louis, Mo.
 Edward C. Fiss, Duke Powder Co., Charlotte, North Carolina.
 Herman A. Brisch, USNR, 1600 Arch street, Philadelphia, Pa.
 Donald U. Clarke, 3552 Normandy avenue, Cleveland, Ohio.

1937

Frank S. Millard, 405 So. Holden avenue, Warrensburg, Mo.
 Roy J. Scafe, 3425 Harrison, Kansas City 3, Missouri.
 Samuel R. Price Jr., 2141 Clifton avenue, St. Louis 15, Mo.
 Kenneth F. Sheckler, 9505 Lafferts Blvd., Richmond Hill, Long Island, N.Y.
 John Fred Vahle, Box 494, Fredericksburg, Virginia.
 Walter R. Jarrett, 2533 Galem, St. Louis, Mo.
 Walter L. Holz, 419 South Douglas avenue, Lyons, Kans.

Walter T. Jones, 920 W. Tijeras, Albuquerque, New Mex.
 Michael E. Green, 150 N. New Hampshire, Los Angeles, Calif.
 Ervin E. Brecke, 1806 Sterling avenue, Houston, Tex.
 Clarence H. Harris, Tiquisate, Guatemala, Cn.A.
 Harry G. Stogsdill, Vida, Mo.

1938

Jesse Carl Moore, 2026 Victor street, St. Louis, Mo.
 Howard W. Mollet, 407 Ridge avenue, Lawrenceburg, Ind.
 Howard R. Rogers, 4130 Shenandoah avenue, St. Louis, Mo.
 Leo M. O'Hara, 6323 Isabella, St. Louis, Mo.
 Chan Craig Van Deventer, Republic Mining Co., Bauxite, Ark.
 Omar C. Walley, 207 Francis Bldg., Columbia, Mo.
 James B. Weaver, 1601 S. 4th street, Alhambra, Calif.
 Elmer Earl Kelsey, McNally Pittsburg Mfg. Corp., Pittsburg, Kans.
 Leonard Charles Lonsberg, Illinois Highway Dept., Springfield, Ill.
 Robert V. Jones, 168 Fairmount avenue, Warren, Ohio.
 Rupert A. Jarboe, 4016 East 70th street, Kansas City, Mo.
 Dudley Folsom, U.S. Engrs., 601 Davidson Bldg., Kansas City, Mo.
 Frank N. Goodrich, 1244 Adams street, Eugene, Ore.
 Harry W. Kuhlmann, 3728 Grantly road, Toledo, Ohio.

1939

Wilbert A. Roarig, H & S Co., 133 Engr. Bn. N.W.S., Ft. Lewis, Wash.
 Harris Foss Lund, 1816 South 8th street, Springfield, Ill.
 Marshall A. Jeffers, 430 So. Ashland avenue, Chicago, Ill.
 Marshall V. Jamison, 574a Kimbark, Chicago, Ill.
 William C. Harbour, Tucson, Ariz. (Navy.)
 John O. Campbell Jr., Carter Oil Co., Fairfax, Okla.
 Basil C. Compton, 3921 McRree avenue, St. Louis, Mo.
 Ted W. Ballard, Petty Geophysical Engr. Co., Box 277, Philadelphia, Miss.
 Ray D. Dallmeyer, 300 Collinsville avenue, Collinsville, Ill.

Lewis J. Graber, 638 Ludlum, Lawrence, Ind.

1940

Theodore J. Planje, Newburg, Mo.
 Eugene L. Olcott, 625 West Kirkham road, Webster Groves, Mo.
 Alex Rubin, 817a Westgate, St. Louis, Mo.
 John H. Werner, 1808 W. Bancroft avenue, Toledo, Ohio.
 Charles C. White, Schlumberger Well Surveying Co., Wharton, Texas.
 Robert Neal Lorance, TVA, Knoxville, Tenn.
 Leonard E. Henson, 668a North 33rd street, East St. Louis, Ill.
 Ralph D. Hall, U.S. Steel Co., Chicago, Ill.
 Jennings B. Carver, Ohio Oil Co., Caspar, Wyoming.
 Herman J. Andresen, Emerson Electric Co., St. Louis, Mo.
 William H. Collier, 37 Ruth Ct., Springfield, Ohio.
 Donald E. Bradley, North American Aviation, Kansas City, Mo.

1941

A. Henry Nickerson, 2448 Glenmary avenue, Louisville, Ky.
 Raymond G. Dietiker, Carnegie Illinois Steel Corp., 656 Van Buren, Gary, Ind.
 Roy W. Graves, Army Air Base, Santa Maria, Calif.

1942

Jimmy L. Mitchell, Allis-Chalmers Manufacturing Co., Milwaukee, Wisc.
 Herbert E. Pagel, 1561 Garymont avenue W, Birmingham, Ala.
 Robert G. Van Nostrand, 6625 Mitchell Ave., St. Louis, Mo.
 William J. Eisman, Carnegie-Illinois Steel Corp., Gary, Ind.
 Harry A. Bagley.
 David Cutler, 130 E. 6th street, Chester, Pa.

1943

Patrick D. Quinn, 6832 Fyler, St. Louis, Mo.
 Homer J. Weaver, 814 Holland Ave., Springfield, Mo.
 Elmer F. Aschemeyer, North American Aviation, Kansas City, Mo.

1944

Ralph E. Nuelle, 3133 Ivanhoe, St. Louis, Missouri.

Alumni Directory

Beginning with this issue and continuing for the next five issues, there will be published an Alumni Directory by classes. Alumni covered in this issue, whose address is not shown as correct, should notify the secretary at once as to the proper address. A number of alumni are listed as lost. Anyone knowing a correct address for these alumni is urged to send it at once to the secretary's office.

The Alumnus as mailed to the alumni contains the best address available in Rolla. If it is not correct, please notify the Alumni office that it may be corrected for the succeeding issues of the Alumnus containing the directory.

The cooperation of all will make for better alumni records.

1874

Gustavus A. Duncan (deceased).
 John H. Gill (deceased).
 John W. Pack (deceased).

1875

Francis J. Deegan (deceased).
 Almon W. Hare (deceased).

1876

Cyrus H. Emerson (deceased).
 Oscar E. Garvens (deceased).
 John D. Greason (deceased).
 William C. Minger (deceased).
 John E. McGrath (deceased).

1877

Thomas H. Millsap (deceased).
 A. H. Ohmann-Dumesnil (deceased).
 James A. Pack (deceased).

1878

William Y. Bean (deceased).
 Wilton R. Brown (deceased).
 Lindsay L. Coppedge (deceased).
 Lee R. Grabill, 16 New York avenue, Takoma Park, Md., Washington, D.C.

1879

Rudolph C. Hoyer (deceased).
 Charles F. Winters (deceased).

- 1880
Arthur C. Carson (deceased).
Loren X. Smith (deceased).
- 1881
Edward B. Summers (deceased).
Walter W. Wishon (deceased).
- 1882
Frank W. Gibb (deceased).
W. R. Painter, editor, Carrollton Democrat, Carrollton, Mo. Residence, 15 North Main St., Carrollton, Mo.
Beauregard Ross (deceased).
A. B. Schrantz, 200 South 2nd street, Independence, Kans.
H. N. Van Devander (unknown).
J. A. Wash (deceased).
- 1883
Floyd Davis (deceased).
- 1884
Curtis Alexander (deceased).
W. M. Claypool, 320 17th street, San Bernardino, Calif.
P. C. Gallaher (deceased).
A. Neustaedter (deceased).
Frank W. Wilson, Hotel Commander, Cambridge, Mass.
- 1885
J. R. D. Owen (deceased).
P. R. Van Frank (deceased).
F. C. Wilson (deceased).
- 1886
Jay Cullings (deceased).
James E. Fulcher (deceased).
J. G. Martinez (deceased).
- 1887
G. W. Cole (deceased).
O. Lachmund (unknown).
George B. Wiles (deceased).
M. W. Yeater, contractor and civil engineer, c/o Milner Hotel, Sedalia, Mo.
- 1888
None.
- 1889
None.
- 1890
George R. Dean (deceased).
- 1891
Sally Millard (Mrs. Cornelius Roach), 3828 Charlotte avenue, Kansas City 3, Mo.
Frank H. Seamon, 521 Lombardy lane, Laguna Beach, Calif.
Arthur J. Stewart, 106 Kingsley avenue, Bethesda, Md.
- 1892
D. C. Jackling, 1800 Hobart Bldg., San Francisco, Calif.
E. M. Johnson, Gen. Supt., Eagle-Picher Lead Co., Henryetta, Okla. Mail address: Box 514, Henryetta, Okla.
F. A. Jones (deceased).
F. L. Tyrell, Box 482, Salem, Mo.
- 1893
Mary P. Buskett (deceased).
John C. Reid, 408 Main street, Osawatomie, Kansas.
C. B. Spencer (deceased).
F. L. Tyrell, Box 482, Salem, Mo.
- 1894
Theodore S. Delay, 515 West Mills street, Creston, Iowa.
C. D. Grove (deceased).
G. W. Herdman (deceased).
W. S. Thomas, 4815 N.E. Alameda, Portland 13, Ore.
- 1895
Evans Walker Buskett, Instructor in Chemistry, Joplin High School, 2501 Pennsylvania avenue, Joplin, Mo.
Herman Cyril Cowen (deceased).
Edward P. Dwyer, District Agent, Empire Zinc Co., 323 W. 15th street, Joplin, Mo.
Temple Dyer (deceased).
Philip Florreich Jr. (deceased).
Samuel James Gormly, 816 South 2nd street, Alhambra, Calif.
J. E. Kirkham, Box 243, Mercedes, Tex.
- 1896
Claude D. Grove (deceased).
Walter G. Martin (deceased).
- 1897
P. B. Anderson, 39 Orchard lane, Kirkwood 22, Mo.
J. S. Cameron, Crowe Coal Co., Henryetta, Oklahoma.
G. W. Dean (deceased).
A. E. Eardley, Cashier, Citizens State Bank, Carrizo Springs, Tex.
F. J. Kersting (deceased).
John A. Rogers, San Lorenzo Quinta, Sinaloa, Mexico.
L. C. Torrence (deceased).
- 1898
Ralph Barker (unknown).
Victor Hugo Gottschalk, 47 Central avenue, Cottage City, Md.
A. D. Terrell, National Zinc Co., Box 579, Bartlesville, Okla. Residence, 710 Dewey avenue, Bartlesville, Okla.
Euart Carl Torrence (unknown).
- 1899
George Clough Clark (deceased).
Roger Hanson Hatchett, 3119 Pershing Dr., El Paso, Tex.
James Otto Hendricks, Bolivar, Mo.
Edwin T. Perkins, United States Bureau of Mines, Rolla, Mo.
Fred H. Perkins (deceased).
Herbert F. Rogers, Holden, Mo.
Herman O. Schulze (unknown).
Walter E. Soest (deceased).
Howard J. Taylor (unknown).
Francis J. Tayman (unknown).
A. D. Terrell, National Zinc Co., Box 579, Bartlesville, Okla. Residence, 710 Dewey avenue, Bartlesville.
Jerrold R. Underwood, Kelly & Underwood Const. Co., Granby, Mo.
- 1900
Santiago Chamberlain (deceased).
Charles A. Fach (deceased).
A. L. Fernandez (deceased).
I. P. Fraizer (deceased).
J. A. Garcia (deceased).
F. H. Perkins (deceased).
H. J. Taylor (unknown).
F. J. Tayman (unknown).
W. M. Weigel (deceased).
- 1901
Thompson Alexander (deceased).
D. W. Buckby, 208 W. 52nd street, Seattle, Washington.
F. R. Cowles (deceased).
J. C. Draper, 1501 Topeka Blvd., Topeka, Kansas.
Charles A. Fach (deceased).
I. P. Frazier (deceased).
Leon Ellis Garrett (deceased).
H. R. Hanley, professor of metallurgy MSM. Residence, 606 W. 8th street, Rolla, Mo.
F. R. Koeberlin (deceased).
George L. Olmsted, Bonne Terre, Mo.
W. H. Powell, W. H. Powell Lumber Co., St. James, Mo.
R. T. Rolufs, Missouri Geological Survey, Rolla, Mo.
Albert Spengler (unknown).
I. J. H. Stauber (deceased).
J. C. Watkins (deceased).
George Woodhall Jr. (deceased).
- 1902
C. M. Daily (deceased).
A. H. Fay (deceased).
G. E. Lyman, 7535 Luella avenue, Chicago 49, Ill.
E. C. Martinez (unknown).
Lawrence May, Windsor Towers, E. 42nd street, New York, N.Y.
E. J. Morris (deceased).
E. A. Mortland, 2918 Allen Ave., St. Louis, Missouri.
B. N. Norton, vice-president Norton Bros. Inc., 2173 E. San Antonio street, El Paso, Tex. Residence, 1513 N. Campbell street, El Paso.
J. L. Pickles, superintendent, Canadian National Railway, 625 Central avenue, W. Duluth, Minnesota.
H. N. Rex (unknown).
F. H. Walsh, The Fresnillo Co., Fresnillo, Zacatecas, Mex.
A. D. Wilson, chief chemist, The Laclede Gas Light Co., St. Louis, Mo.
- 1903
R. C. Alexander, building contractor, 410 N. 6th street, Henryetta, Okla.
F. R. Bell (unknown).
C. M. Daily (deceased).
A. I. D'Arcy (deceased).
W. H. Gill (deceased).
S. M. Greenidge, 1920 Ashland avenue, Ft. Worth, Tex.
F. Hauenstein, R.R. No. 1, Box 856, Exeter, California.
L. S. Logan (unknown).
W. A. Luther, Asst. Supt., O. B. Andrews Paper Mill Co., 500 Belvoir avenue, Chattanooga, Tenn.
H. A. Roesler (deceased).
E. V. Schulze (unknown).
J. E. Walker, Sullivan, Mo.
F. H. Walsh, The Fresnillo Co., Fresnillo, Zacatecas, Mexico.
R. S. Webster, Business Apartado 450, Havana, Cuba.
Frank Weidner, 3911 N. Hydraulic avenue, Wichita, Kans.
- 1904
J. K. Black (deceased).
G. V. Bland, Hill City, S.D.
T. S. Carnahan, 928 Beverley drive, San Gabriel, Calif.
R. A. Conrads, 5100 Hyde Park Blvd., Chicago 15, Ill.

L. A. Delano (deceased).
 L. J. Foster, Gila Project, Yuma, Ariz.
 H. A. Grine, 6409 9th street N.W., Washington, D.C.
 G. W. Harris, c/o San Francisco Mines, San Francisco del Oro, Chihuahua, Mex.
 C. L. King (deceased).
 H. W. Lohman, president United Zinc Smelting Corp., P.O. Drawer 375, Moundsville, W. Va. Residence, 1210 Alameda, Padre Sena, Santa Barbara, Calif.
 C. E. Minor (deceased).
 G. B. Morgan (deceased).
 E. E. Price, P.O. Box 162, Trujillo, Peru.
 J. M. Price (unknown).
 J. T. Rice, consulting engineer, El Centro, California.
 J. S. Schroeder, 2032 N. Las Palmas, Hollywood, Calif.

Robert C. Thompson, Warren, Pa.
 W. J. Tweed (deceased).
 Clarence Woods, Inca Min. & Dev. Co., Tirapata (via Arequipa) Peru, S.A.

1905

J. J. Brown Jr., 127 No. Crestway, Wichita, Kansas.
 J. W. Caples (deceased).
 H. C. Chamberlain, 301 N. Byers, Joplin, Mo.
 J. K. Christopher, 200 Board of Trade Bldg., 10th and Wyandotte, Kansas City 6, Mo.
 J. H. Clary (deceased).
 Thomas Cowperthwaite (deceased).
 R. P. Cummins, superintendent of equipment, Missouri State Highway, Jefferson City, Mo.
 Albert H. Fay (deceased).
 J. A. Gregory, Newport, Ark.
 E. C. Heck (deceased).
 R. E. Hoffman, Box 135, Pompton Lakes, New Jersey.
 L. H. Hunt (unknown).
 C. M. Laizure (deceased).
 J. L. G. Lehman (unknown).
 C. L. Lintecum (deceased).
 J. H. McCarthy Jr. (deceased).
 E. G. R. Manwaring, 11030 California, North Hollywood, Calif.
 S. R. Moore (unknown).
 W. C. Nesbit (deceased).
 J. I. Prugh (deceased).
 M. V. Quinn (unknown).
 W. E. Sheldon (unknown).
 Charles D. Smith, City Point, Fla.
 J. M. Taylor (unknown).
 A. A. Thomas Jr., 2570 West 11th street, Los Angeles, Calif.
 C. R. Wilfley, mining engineer, U.S. Bureau of Mines. Residence, 2233 Grape street, Denver 7, Colo.

1906

J. O. Ambler (deceased).
 R. A. Barton, civil engineer and surveyor, P.O. Drawer 198, Penticton, B.C., Canada.
 R. H. Bedford (unknown).
 J. M. Brooks, 4608 Cumberland Circle, El Paso, Tex.
 M. B. Burgher, 115 Shepherd Pl., Hannibal, Missouri.
 D. D. Dunkin (deceased).
 W. A. Gardiner (unknown).
 C. T. Green (unknown).
 W. S. Grether (deceased).
 W. T. Griffith, Sand Coulee, Mont.
 E. A. Guntley, 3731 Wyoming street, St. Louis, Mo.
 H. A. Hand (deceased).

H. H. Hartzell, mine operator, Hope Lead and Zinc Co., Baxter Springs, Kans.
 P. K. Horner, 7 Prince's Gate S.W., London. English Managing Director of British American Tin Mines.
 T. I. Phelps, engineer, Sanitation Division, Los Angeles County, 1243 Lovell avenue, Arcadia, Calif. R.R. No. 1, Box 259-3.
 F. B. Powell, 605 W. 11th street, Rolla, Mo.
 R. Rivera, Guadalajara, Mexico.
 R. F. Rucker (deceased).
 J. D. Shanks, mine engineer, Brazeau Collieries, Ltd., Nordegg, Alberta, Canada.
 J. H. Steinmesch, vice-president, Minerva Oil Co., Eldorado, Ill. Residence, 2009 Glenwood, Eldorado.
 J. V. Stevens (unknown).
 W. C. Wyman (deceased).

1907

A. G. Baker, 1312 So. Utica St., Tulsa, Okla.
 A. B. Bartlett, Wheatland, Wyo.
 W. E. Brown, Hercules Powder Co., Hercules, Calif.
 E. E. Cook, county surveyor and highway engineer, Clinton County, Grower, Mo.
 P. R. Cook, R.F.D. No. 2, Hopewell Junction, N.Y.
 J. T. E. Ericson (deceased).
 A. P. Fellows, County Engineer, Salisbury, Missouri.
 W. P. Hatch, architect and engineer, 60 State street, Boston, Mass.
 J. C. Long (unknown).
 W. C. Perkins, civil engineer, National Park Service, Kaiser, Mo.
 W. I. Phillips (unknown).
 W. C. Richards, chief engineer, A. Leschen & Sons Rope Co., St. Louis 12, Mo. Residence, 126 Gray avenue, Webster Groves 19, Mo.
 J. P. Sebree, 822 Harding road, Aberdeen, Washington.
 A. J. Seltzer, 427 38th street, Oakland, Calif.
 J. B. Scott (deceased).
 B. J. Snyder (deceased).
 Sakuhei Sunada (unknown).
 Tsik Chang Tseung (unknown).
 J. T. Vitt, 9003 Lockland, St. Louis, Mo.
 E. R. Wash (deceased).
 I. L. Wright, mining engineer, Box 774, Silver City, New Mex.

1908

R. E. Armstrong (deceased).
 C. A. Baker (deceased).
 R. R. Benedict, U.S. Public Roads Administration, Federal Works Agency Bldg., Washington 25, D.C. Residence, 1515 N. Harrison, Arlington, Va.
 J. H. Bowles, field engineer, Palmer Corp., 1539 Railway Exchange Bldg., Chicago, Ill.
 G. H. Boyer, 4912 16th street, Arlington, Va.
 Boyd Dudley, 110 Wendell terrace, Syracuse, New York.
 J. D. Fowler, 701 Great National Life Bldg., Dallas, Tex. Residence, 3515 Harvard avenue, Dallas.
 C. L. French, vice-president, Mareno Co., 1228 Syndicate Trust Bldg., St. Louis. Residence, 104 So. Rock Hill road, Webster Groves 19, Mo.
 F. W. Harper (deceased).
 H. C. Hase (deceased).
 D. P. Hynes, The Palmer Corp., 80 E. Jackson, Chicago, Ill. Residence, 1519 Davis street, Evanston, Ill.
 H. A. Johnson, mill and mine supt., Tonopah Mining Co., Tonopah, Nev.
 E. E. Jones (unknown).

G. F. Kellogg, 1101 Magnolia street, St. Joseph, Mo.
 F. A. Lyneman (deceased).
 H. T. Mann (deceased).
 H. T. Mapes, Moose, Wyoming.
 W. B. Mix, Highway 66W, Rolla, Mo.
 F. A. Moore, 7012 Arbutus avenue, Huntington Park, Calif.
 E. P. Murray (unknown).
 D. M. Neer, 2503 Jarratt Ave., Austin, Tex.
 A. L. Nye, 505 S. Howes avenue, Fort Collins, Colo. P.O. Box 248.
 P. A. Philippi, 135 S. Elm, Webster Groves 19, Mo.
 J. J. Sanford, 825 McKinley avenue, Kellogg, Idaho.
 M. Sedivy (unknown).
 E. B. Thornhill, 3815 Pacific avenue, Long Beach, Calif.
 F. L. L. Wilson, 401 Ellis avenue, Wheaton, Illinois.
 C. R. Wood (unknown).
 Hyman Zirulick (unknown).

1909

H. G. S. Anderson, 567 North 7th St., Muskogee, Okla.
 E. P. Barrett, U.S. Bureau of Mines, Minneapolis, Minn.
 W. A. Baueris, Baueris & Smith, mining engineers, 839 Henry Bldg., Seattle, Wash. Residence, 1804 Bigelow avenue, Seattle.
 J. W. Beard, 4419 Cambridge street, El Paso, Texas.
 F. T. Boyer (deceased).
 R. H. B. Butler, c/o British Consulate General, North Chicago 6, Ill.
 Enrique Cavazos, consulting mining engineer-city engineer, at Saltillo, Hidalgo S.22, Saltillo, Mex.
 E. L. Chamberlain, civil engr., Oliver, Minn.
 W. N. Clark (deceased).
 W. D. Clarke (unknown).
 J. C. Compton, contracting engineer, Highways, McMinnville, Ore.
 R. H. DeWaters, chief chemist, Corn Products Refining Co., Argo, Ill.
 DeForrest Don (deceased).
 G. A. Easley, Room 2520, 120 Broadway, New York, N.Y. Residence, 151 Madison Ave., Morristown, N.J.
 V. Elicano, assistant director, Bureau of Science, Manila, P.I.
 H. O. Garst (unknown).
 W. S. Hall (deceased).
 R. C. Ham, 4733 Norma avenue, Ft. Worth, Texas.
 V. B. Hinsch (deceased).
 V. H. Huges, 1511 So. Boulder, Tulsa, Okla.
 Simon Jochamowitz, Pisco, Peru, S.A.
 C. W. Keniston (deceased).
 H. C. Kibe (unknown).
 F. R. Loveridge, Sappington, Mo.
 R. F. McCrae, U.S. Bureau of Mines, Gainesville, Ga., Box 657.
 W. McElroy (unknown).
 M. S. Mazany, Armstrong road, Morristown, New Jersey.
 P. F. Michael, equipment engineer, Carter Oil Co., Tulsa, Okla.
 F. X. Nachtmann, mining engineer, Frisco R.R. Fuel Dept., 9th and Olive, St. Louis 1, Mo. Residence, 655 Fairview Ave., Webster Groves, Missouri.
 A. L. Pollard, 514 S. 21st street, Knoxville, Tennessee.
 A. M. Shah (unknown).

E. McC. Smith, mill foreman and metallurgist, Argonaut Mining Co., Ltd., Jackson, Calif.

A. E. Wishon, Pacific Gas & Electric Co., 245 Market street, San Francisco, Calif., Residence, 284 Mountain avenue, Piedmont 11, Calif.

E. J. Wolf (unknown).

1910

F. O. Blake Jr., petroleum engineer, 107 Emporium Bldg., Whittier, Calif. Residence, 520 North Friends Aved., Whittier.

J. W. Bodman, Lever Bros., 164 Broadway, Cambridge, Mass. Residence, 18 Wedgemore avenue, Winchester, Mass.

E. F. Boland (deceased).

J. J. Bowles, Lake Springs, Mo.

W. G. Branham (deceased).

James Bunten, The New Jersey Zinc Co., Palmerton, Pa. Residence, 321 Lafayette Ave., Palmerton.

C. A. Burdick, Harrowgate Apt., 1833 Hampshire avenue, N.W., Washington 9, D.C.

R. B. Caples Jr., general superintendent, Anaconda Copper Co., Great Falls, Mont.

H. W. Connelly (deceased).

A. N. Detweiler, 1300 W. 59th street, Chicago, Ill. Residence, 1634 E. 69th street, Chicago 49, Ill.

Emilio Diaz (deceased).

Walter Dobbins (deceased).

B. H. Dosenbach (deceased).

T. S. Dunn (deceased).

J. K. Forman, Industrial Silica Corp., 602 Stambaugh Bldg., Youngstown, Ohio.

F. L. Flynt, 2501 20th avenue, Rock Island, Illinois.

K. C. Fraser (deceased).

C. Gregory Jr., 356 Cumberland road, Glendale, Calif.

J. D. Harlan, 1283 E. South Temple street, Salt Lake City, Utah.

O. W. Holmes (deceased).

A. X. Illinski (deceased).

R. D. Killian, 22 S. West St., Perryville, Mo. Elmer List, director Dept. of Biology and Geology, Shurtleff College, Alton, Ill. Residence, 3008 Edwards street, Alton, Ill.

V. H. McNutt (deceased).

R. W. Mackey (deceased).

H. E. Minor, petroleum geologist, Gulf Products Co. Residence, 1408 Missouri avenue, Houston, Tex.

B. F. Murphy, mine superintendent, Doe Run Lead Co., Rivermines, Mo.

N. L. Ohnsorg (deceased).

Albert Park, P.O. Box 911, Casper, Wyo.

H. K. Peterson, 1 Hill street, New Rochelle, New York.

J. L. Pickering Jr., S. S. Kresge Co., General Offices, 2727 2nd avenue, Detroit, Mich.

L. J. Porri, 435 Fairview, Arcadia, Calif.

F. E. Riede, De Pue, Ill.

S. R. Schmidt (unknown).

J. E. Schultz (unknown).

H. E. Smith (unknown).

V. H. Smith, 706 Royal Bank Bldg., Toronto, Canada.

J. S. Stewart Jr., 325 East 72nd street, New York 21, N.Y.

R. C. Thompson, Phelps-Dodge Corp., Warren, Ariz.

C. W. Traugher, 3738 Ellenshire avenue, Baltimore, Md.

George C. Vogt, Rubber Service Co., 1023 E. Pike street, Seattle, Wash. Residence, 1877 Shelby street, Seattle.

Ernest Wander, research chemist, Cutter Laboratories, Berkeley, Calif. Residence, 3133 College avenue, Berkeley, Calif.

1911

M. M. Alberston, Box 1154, Houston 1, Tex. E. J. Allen, mine superintendent, Vinegar Hill Zinc Co., Hazel Green, Wisc.

J. K. Beach (unknown).

R. A. Bingham (unknown).

T. W. Blake, Electro-Metallurgical Corp., Niagara Falls, N.Y. Residence, 1235 Norwood avenue, Niagara Falls.

H. J. Boza, Boxa Aizcorbe Hermanos, Box 106, Lima, Peru.

J. C. Clark, c/o E. F. Griffiths Co., 346 E. Walnut lane, Philadelphia, Pa.

B. H. Cody, Phelps-Dodge Corp., Morenci, Ariz. (P.O. Box 354).

R. N. Copeland (unknown).

W. R. Cox, Hotel Seville, Madison avenue and 29th street, New York 16, N.Y.

M. H. Detweiler, vice-president, Ziegler Coal and Coke Co., Ziegler, Ill.

C. E. Elmore (deceased).

E. W. Engelmunn, Magna, Utah.

M. Farrar, R.F.D. Mattoon, Ill.

D. L. Forrester, Copper Branch, WPB, Temporary Bldg. R, Washington, D.C. Residence, 5915 14th street N.W., Apt. 201, Washington, D.C.

Eva E. Hirdler (Mrs. F. C. Greene), 320 So. Manhattan, Apt. 104, Los Angeles 5, Calif.

A. F. Karte, 310 Boyd street, De Soto, Mo. Box 902.

S. P. Lindau, Western Precipitation Co., 1016 W. 9th street, Los Angeles, Calif. Residence, 108 N. Harvard Blvd., Los Angeles.

G. Garcia Lozano (unknown).

O. A. Lunak (deceased).

J. E. McGoughran (unknown).

S. C. Macomber (deceased).

C. R. Miller (deceased).

R. B. Mitchell, dean, Eastern Oklahoma College, Wilburton, Okla.

H. W. L. Porth (deceased).

A. G. Pudewa (unknown).

Shiv Raj, The Traders Bank Ltd., Lahore, India.

O. A. Randolph (deceased).

J. E. Schultz (unknown).

D. S. Smith, 262 El Nido avenue, Monrovia, California.

R. E. Sprague (unknown).

H. L. Tedrow, general superintendent, The London Mines and Milling Co., Alma, Colo.

F. E. Townsend, chemist, National Zinc Co., 728 Wyandotte avenue, Bartlesville, Okla.

J. P. Walker Jr. (unknown).

1912

H. F. Adams, Inspiration Consolidated Copper Co., Inspiration, Ariz.

Oscar N. Bribach, Box 2382, Denver 1, Colo. Eugene H. Broughton (deceased).

Scott David Callaway, S. D. Callaway Co., 1535 Broadway, Kansas City 8, Mo.

James Howard Chase, contractor, 535 Burlington avenue, Logansport, Ind.

Paul E. Coaske (unknown).

George Condon (unknown).

Cairy C. Conover (deceased).

Clifford L. Conway, superintendent, U. S. Gypsum Co., Midland, Calif.

Louis L. Coover, secretary of the American Participations Inc., Holland Bldg., Springfield, Missouri.

Arthur H. Cronk, general superintendent, Rosiclare Lead and Fluorspar Mining Co., Rosiclare, Ill.

Robert E. Dye, Dome Mines Ltd., S. Porcupine, Ontario, Can.

W. H. Elbelt, Braden Copper Co., Rancagua, Chile.

Frank James Flynn, Missouri Water and Steam Supply Co. Residence, 920 Ridenbaugh street, St. Joseph, Mo.

Harold P. Ford, 3312 Empire Way, Seattle, Washington.

Alexander Grosberg, 3230 Gravois avenue, St. Louis 18, Mo.

Deane D. Harris (deceased).

Dale Irwin Hayes, 927 Old National Bank Bldg., Spokane, Wash.

Julian Adolph Hielscher, Physician and Surgeon, National-Citizens Bank Bldg., Mankato, Minnesota.

John Hurtgen, 4808 Austria street, St. Louis 16, Mo.

Joseph S. Irwin, consulting geologist, 812 Lancaster Bldg., Alberta, Can. Residence, 3026 Glencoe road, Calgary, Alberta, Can.

Robert W. Johnson, State of Illinois Division of Highways, 430 Prairie, Paris, Ill.

James Lawton Keelyn, 1291 Cliff drive, Laguna Beach, Calif.

John R. Kenney, 2132 North Halsted street, Chicago 14, Ill.

Duane M. Kline, St. Louis Smelting & Refining Co., Baxter Springs, Kans.

Edward D. Lynton, 1221 N. Isabel street, Glendale 7, Calif.

Roswell H. Maveety, 53 West Jackson Blvd., Chicago, Ill.

Edwin R. Morris, 41 Third street N.W., Oelwein, Iowa.

A. W. Naylor (unknown).

N. L. Ohnsorg (deceased).

R. J. Paulette, Remington Arms Co., Inc., Bridgeport, Conn. Residence, 23 Miller street, Fairfield, Conn.

William Porri (deceased).

Mark S. Sheffer (unknown).

Homer K. Sherry, vice-president, Johns-Manville Co., Ltd., Box 99, Quebec, Can.

Thomas A. Stroup (deceased).

George S. Thomas (unknown).

M. H. Thornberry, professor of mathematics, New Baden High School, Box 31, New Baden, Illinois.

M. E. Willmott, 532 Hamilton avenue, Iron Mountain, Mich.

C. W. Wright (unknown).

1913

Dexter Eli Andrus (deceased).

Charles Bramson (deceased).

L. H. I. Brooks Jr., Manager, Irma Mines, Inc., Cooke City, Mont.

Charles Y. Clayton, Box 248, Rolla, Mo.

Frank W. Cody (deceased).

L. S. Copelin, owner, Copelin Core Drill Co. Residence, 2244 Alcyona drive, Hollywood 28, California.

William Ehlers Jr., Defense Plant Corp., Landreth Bldg., St. Louis 2, Mo. Residence, 8116 Teasdale avenue, University City 5, Mo.

J. W. Greene, Ford Motor Co., Clayton, Ida.

S. E. Hollister, Southwestern Engr. Co., Los Angeles 11, Calif. Residence, 1680 Vallecito drive, Puente, Calif.

James Hopkins, 9127 Flower avenue, Silver Spring, Md.

J. C. Ingram, 8223 St. Lawrence avenue, Chicago 19, Ill.

H. M. Katz, business manager, Missouri School of Mines, Rolla, Mo. Residence, 601 W. 11th street, Rolla.

W. R. Knapenberger, 27 North Ashland Ave., LaGrange, Ill.

R. C. Knickerbocker, supervising engineer, Boulder City Expt. Sta., U.S. Bureau of Mines, Boulder City, Nev.

P. A. Moore (deceased).

J. A. Murphy, president and general manager, Minerales y Jales, S.A., Guanajuato, Gto., Mex. Residence, Guanajuato, Gto., Mexico, Apt. 55.

H. H. Nowlan, consulting geologist and engineer, 317 Court Bldg., Evansville 19, Ind. Residence, Bernardin Apts., 2nd and Walnut, Evansville, Ind.

D. H. Radcliffe, 1710 Purdy avenue, Miami Beach 39, Fla.

H. W. Shaw (deceased).

R. G. Sickley, mining and metallurgical engineer, Geneseo, N.Y.

R. A. Wagstaff (unknown).

T. C. Wilson (unknown).

1914

George E. Abernathy, 115 E. Williams Ave., Pittsburgh, Kans.

L. J. Boucher, assistant general superintendent, Universal Atlas Cement Co., Northampton, Pa. Residence, 500 American street, Catasauqua, Pa.

Tirso Castillon, Mayor, Esmeralda & Sierra Mojanda; superintendent, Cia Arrendataria de Minas, S.A. Sierra Mojada, Coahuila, Mex.

G. H. Cox (deceased).

C. C. Cushwa, superintendent, Spring Hill Gold Mines. Residence, Box 1001 Grass Valley, California.

J. C. Finagin Jr., Aluminum Co. of America, Box 30. Residence, 928 E. Culver, Phoenix, Arizona.

T. R. Goldsborough (unknown).

C. W. Hall, 6 Kensington avenue, Trenton, New Jersey.

H. G. Halsey (deceased).

G. A. Hellstrand (unknown).

W. C. Hogoboom, structural engineer, City of L.A., 657 City Hall. Residence, 618 N. Hayworth avenue, Los Angeles, Calif.

M. J. Kelly, Bell Lab., 463 West street, Room 1053, New York, N.Y. Residence, Windmere terrace, Short Hills, N.J.

L. Lodwick, Poland, Ohio.

R. N. McBride, petroleum and valuation engineer, 1st National Bank, Dallas, Tex.

G. F. Metz, district manager, c/o Hardinge Co., Inc. Residence, Farguhar Estates, R. D. No. 6, York, Pa.

J. C. Miller Jr., oil operator, Owensboro, Ky.

F. G. Moses (unknown).

O. D. Neal, Manufacturers' Laboratories, Inc., 76 Ninth avenue. Residence, 53 Berkshire road, Rockville Center, Long Island, N.Y.

E. R. Needles, 5 Sunset drive, Summit, N.J. Thomas Robson, mining engineer, Potosi, Bolivia, S.A.

R. M. Simrall, Liberty, Mo.

E. O. Stoliker (deceased).

A. F. Truex, general manager, Sun Co., Tulsa, Okla.

W. H. Wager (deceased).

J. N. Webster, vice-president, Out-Law Trading Post, Inc., Winner, S.Dak.

1915

W. M. Benham, Mrilege, B.C. Mexico.

D. W. Blaylock, 1055 Sylvan avenue, Lakewood, Ohio.

H. H. Clark, consulting engineer, 208 S. La Salle street, Chicago 4, Wash. Residence, 7202 So. Shore drive, Chicago 49, Ill.

Durward Copeland, Hotel Odds, Santiago, Chile.

L. M. Cummings, 951 Corona street, Denver, Colorado.

R. S. Dean, assistant director U.S. Bureau of Mines, 532 20th street, Washington, D.C.

T. S. Dunn (deceased).

William Elliott (unknown).

A. W. Gleason, 1966 Yosemite road, Berkeley 7, Calif.

R. W. Griffin (deceased).

S. R. Hatch, 914 7th street, Douglas, Ariz.

A. L. Kaplan, 1339 S. Rockford street, Tulsa, Oklahoma.

J. W. Shotwell, Sandi Arabian Mining Syndicate Sta., Jeddah, Hejz, Sandi, Arabia.

C. D. Smith (deceased).

A. L. Trent, 152 Tioga street, Johnstown, Pa.

H. M. Wilson (deceased).

1916

B. W. Adams, Armstrong Cork Co., 713 Cazon Bldg., Cleveland, Ohio. Residence, 401 Madison street, Ravenna, Ohio.

B. L. Ashdown (deceased).

E. L. Beyer, 811 Providence avenue, Webster Groves 19, Mo.

R. S. Burg (unknown).

E. V. Damotte, assistant highway engineer, Illinois Division Highways. Residence, 2449 S. 7th street, Springfield, Ill.

E. G. Deutman, superintendent, National Zinc Separator Co., Cuba City, Wisc.

J. J. Dowd, Box 147, Paonia, Colo.

A. T. Dunham, 8221 Page avenue, St. Louis 14, Mo.

Greene Erskine, 6141 McPherson avenue, St. Louis 12, Mo.

W. Gammeter, 5501 N. Kent avenue, Whitefish Bay, Milwaukee 11, Wisc.

C. B. Gold, Granite Steel Works, Granite City, Ill.

F. Grotts, president and director, Fort Pitt Steel Casting Co., McKeisport, Pa.

J. L. Head, Room 1825, 25 Broadway, New York City. Residence, 250 Arleight road, Douglas Manor, N.Y.

J. S. Hoffman, Leon, Iowa.

L. N. Hoppock, contractor, 520 N. 33rd St., Waco, Tex.

G. E. Johnson, plant manager, International Smelting & Refining Co., East Chicago, Ind. Residence, 6218 Forest avenue, Hammond, Ind.

E. A. Kayser, 2001 Chestnut street, St. Louis 3, Mo.

H. E. Koch, Universal Atlas Cement Co., Hannibal, Mo.

O. L. Lumaghi, Lumaghi Coal Co., 408 Olive street, St. Louis 2, Mo.

T. P. McCague, 109 West Madison street, Ottawa, Ill.

W. H. McCartney Jr., agent, Daveytown, via Winnemucca, Nev.

E. J. McNely, superintendent, High School, Gillespie, Ill. Residence, 612 Broadway, Gillespie, Ill.

J. R. Maher (unknown).

H. T. Marshall, chief engineer, Kennecott Copper Corp., Ruth, Nev., P.O. Box 62.

J. Charles Miller, U.S. Geological Survey, 533 P.O. and Court House Bldg., Los Angeles 12, Calif.

D. H. Morgan, 118 Architecture Bldg., University of Illinois, Urban, Ill.

H. A. Neustaedter, National Lead Co., 722 Chestnut, St. Louis 1, Mo. Residence, 5635 Eichelberger avenue, St. Louis 9, Mo.

C. E. Peterson, Foreign Economic Administration, 2019 Q street N.W., Washington, D.C.

C. A. Pierce, U.S. Potash Co., Box 271, Carlsbad, N. Mex.

E. L. Sailer, 707 N. Henderson, Cape Girardeau, Mo.

J. M. Schuman, Busy Bee Laundry, Rolla, Missouri.

C. G. Stifel, president, Carl G. Stifel Realty Co. and president, Pocohantas Mining Co., 3600 N. Broadway, St. Louis, Mo. Residence, 625 Skinker Blvd., St. Louis.

G. E. Ude, R. No. 1 Box 270, Morenci, Ariz.

H. H. Vogel, superintendent, Barton Mines Corp., North Creek, N.Y.

W. W. Weissbach (unknown).

1917

H. A. Ambler (deceased).

Capt. E. L. Arnold, Inf., APO No. 832, c/o P.M., New Orleans, La.

J. C. Barton, 9 Wickersham lane, Ladue, St. Louis County, Mo.

J. H. Bock Jr., Route No. 1, Box 980, Tampa, Florida.

J. S. Brown, St. Joseph Lead Co., 250 Park avenue, New York, N.Y. Residence, Edwards, New York.

Ralph Dale, 5544 avenue 10 South, Minneapolis, Minn.

P. B. Dolman, 1916 East 13th street, Spokane, Wash.

F. L. Eames (deceased).

F. S. Elfred Jr., Western Cartridge Co., Alton, Ill.

A. C. Fernandez (unknown).

David Greenberg, 344 N. Fountain, Wichita 8, Kans.

William Guest, 522 W. Easton avenue, Tulsa, Oklahoma.

Harry T. Heimberger (deceased).

R. C. Henschel (unknown).

C. W. Hippard (deceased).

H. A. Horner, chief metallurgist, Frick Co., Waynesboro, Pa. Residence, 15 N. Grant street, Waynesboro, Pa.

F. D. James (unknown).

W. H. Kamp, Ralston Purina Co., 2334 Rochester street, Kansas City, Mo. Residence, 7431 Grand avenue, Kansas City 5, Mo.

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Yaro Klepel (deceased).

S. W. Lesniak (unknown).

E. S. McCandliss (deceased).

E. A. Miller (deceased).

C. E. Muehlberg, 17 Yale terrace, Montclair, New Jersey.

J. R. Nevin (deceased).

P. F. Pape (unknown).

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J. H. G. Reilly, general superintendent of mines, Cia. Real del Monte y Pachuca. Residence, Aptdo. 3, Pachuca, Hidalgo, Mexico.

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R. O. Shriver (unknown).

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M. H. Thornberry, professor of mathematics, New Baden High School. Residence, Box 31, New Baden, Ill.

J. K. Walsh, staff speaker, National Industrial Information Communication, National Association of Manufacturers, 14 W. 49th street, New York, N.Y. Residence, 630 Fairview, Webster Groves, Mo.

Col. T. P. F. Walsh, F. D. 08457, Finance Section, Headquarters, Antilles Department, APO 851, c/o PM, Miami, Fla.

E. J. Weimer, division superintendent, c/o Koppers Coal Co., Grant Town, West Va.

G. B. Wilson, general delivery, Evansville, Indiana.