



Missouri S&T Magazine, March-April 1959

Miner Alumni Association

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MSM Alumnus

MISSOURI SCHOOL OF MINES AND METALLURGY
ROLLA, MISSOURI



*Pretty Linda Fitzgerald
is crowned Queen of St. Pat's
and reigned
at the 1959 festivities*

Volume 33

March-April, 1959

Number 2

President's Column

IN THE CHART TO THE RIGHT you will find the statistics on contributions, by classes, to the 1959 M.S.M. Alumni Fund. This completes, as of April 2, the first five months of the 1959 Annual Alumni Fund Drive. To date a total of 1740 contributors have participated in the drive, representing approximately 70 per cent of our goal of 2500 members for the fiscal year. To reach our quota, 760 contributors must still be obtained.

How does your class stand for the year? Are you going to lend your support to put your class over the top? The members of your class and your Class Agent hope that you will.

The financial assistance of every alumnus is required in order to meet our obligations for the year and to increase the scope of activities of the Association. Your Association cannot operate on a deficit standing and still achieve its goal of furthering the interest of our Alma Mater in the many ways that it does, some of which are: Freshman scholarships, publication of "The Alumnus" bi-monthly, cooperation with the School Placement Office, publication of an Alumni Directory, which will be issued this year, free of charge, to all contributing members, and the support of a permanent Executive Secretary, Ike Edwards, along with many other worthwhile activities.

I hope that everyone will do his part to support the 1959 Alumni Fund Drive and help his class end up in the 100 per cent group in our final analysis. May I suggest that if you have already contributed, help us further by personally contacting those who have not done so as yet.

Remember our goal—2500 for 1959.

M. E. NICKEL '38
PRESIDENT
MSM ALUMNI ASSOCIATION

MSM Alumnus

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1959 Annual Alumni Fund Drive

STATISTICS ON CONTRIBUTIONS BY CLASSES AS OF APRIL 2, 1959

Class	No. Living with known Addresses	Number Giving	Per-Centage Giving	Class	No. Living with known Addresses	Number Giving	Per-Centage Giving
1891	1	0		1927	47	20	43%
1892	1	1	100%	1928	50	30	60%
1895	2	0		1929	56	27	48%
1897	1	0		1930	55	27	49%
1899	2	1	50%	1931	73	20	27%
1901	4	4	100%	1932	86	32	37%
1902	2	2	100%	1933	94	37	27%
1903	2	1	50%	1934	82	22	27%
1904	6	3	50%	1935	68	19	28%
1905	6	2	33%	1936	70	20	29%
1906	5	2	40%	1937	68	19	28%
1907	10	7	70%	1938	80	22	28%
1908	18	5	28%	1939	103	36	35%
1909	21	8	38%	1940	141	57	40%
1910	24	13	54%	1941	133	48	36%
1911	16	7	44%	1942	187	51	27%
1912	22	11	50%	1943	172	60	35%
1913	8	7	88%	1944	126	17	13%
1914	14	11	79%	1945	30	7	23%
1915	8	1	13%	1946	40	8	20%
1916	26	12	46%	1947	197	43	22%
1917	25	7	28%	1948	325	66	20%
1918	18	8	44%	1949	439	85	19%
1919	10	2	20%	1950	809	176	22%
1920	49	21	43%	1951	505	146	29%
1921	39	12	31%	1952	306	98	32%
1922	53	16	30%	1953	204	60	29%
1923	66	34	52%	1954	175	37	21%
1924	34	16	47%	1955	193	67	35%
1925	59	18	30%	1956	210	45	21%
1926	46	32	70%	1957	371	74	20%
				1958		7	

Number of Living Graduates with known addresses 6031

Number of Contributors 1740

Percentage of Contributors 29%

MSM Alumnus

Dr. Woodman Dies; Physics Department Head 29 Years, Taught Classes After Retirement

Dr. Leon Elmer Woodman, distinguished School of Mines professor and former head of the Physics Department, died at his home April 6, 1959. He was 82 years old.

Dr. Woodman was born at Claremont, N. H., and graduated from Dartmouth College, receiving a A. B. degree in 1899 and his Master's degree from the same school in 1902. He taught in high schools in New England and in 1905 he was awarded an assistantship in Physics at Columbia University which he held until he was granted his Ph. D. degree in Physics in 1908. He was married in September of that year and accepted an assistant professorship at the University of Maine and later became a full professor.

In 1919 he became a professor of Physics and Chairman of the Physics Department at MSM and served in these capacities for 29 years. During these years he not only carried his share of the teaching load but also served on a number of important faculty committees, often as chairman. In 1920, he helped to bring a chapter of the honor society, Phi Kappa Phi, to MSM, and was one of a small group of faculty members who in 1926 organized the fore-runner of the present chapter of the Society of Sigma Xi.

In 1930 he served as chairman of a faculty committee which laid the foundation of the present science curriculum and placed it on a par with the engineering curricula of MSM. As Chairman of the Committee of Graduate Study and Advanced Degrees, he was instrumental in raising the standard of graduate work and in making the requirements for advanced degrees uniform in all departments throughout the campus and comparable to the requirements of the Graduate School of the U. of Missouri divisions at Columbia. His committee saw the first honorary degree given in 1923 and in 1925 saw a program adopted for the Doctor of Philosophy degree in the department of Metallurgical Engineering.

Dr. Woodman reached the retirement age of 70 years in 1948. As Professor Emeritus of Physics he continued teaching classes.

Besides Phi Kappa Phi and Sigma Xi, Dr. Woodman was a member of Sigma

Pi Sigma, American Association for the Advancement of Science, the American Physical Society, the Association of Physics Teachers, and was an active member of the Methodist Church. He was the author of several articles that have appeared in the magazines "Physical Review," "American Journal of Physics," and "Science."

For many years Dr. Woodman gave free piano and organ lessons to the children of Rolla and for 30 years he was the organist at the Methodist Church. His interest in music is further



Dr. L. E. Woodman

illustrated by his invention of a "musical slide rule" by which scales may be transposed. He also wrote and produced a dozen plays for children that always attracted a good crowd when publicly presented in Rolla. In 1956 he revised these plays for publication in several leading magazines.

Dr. Woodman was awarded an honorary Doctor of Science degree at the MSM commencement exercises in June 1955 and was honored by the students of MSM at a convocation in 1957. Tuesday, February 12, 1957, was designated as "Professor Woodman Day."

Surviving relatives include his wife, Mrs. Mable Woodman; one son, Eugene H. Woodman, Vicksburg, Mississippi; one daughter, Mrs. Warwick Doll, Charleston, West Virginia. His son, daughter and son-in-law are all graduates of MSM.

Erwin Gammeter on Coal Mining Project in Korea

Erwin Gammeter '26, is Vice President, Paul Weir Company, Inc., Chicago, Illinois. This is a firm of mining engineers and geologists specializing in design and construction.

At present Erwin is in Korea and he expects to be there for another year or two. His company has entered a joint venture with four other companies to furnish engineering services and Mr. Gammeter is the representative in coal mining. The coal in Korea is a poor grade of anthracite and there is no bituminous coal. Most of the mines are very small and primitive methods are used in mining. The coal beds are steeply pitched and as the formations are intensely folded the mining conditions are poor.

Erwin waited until the last few years to start chasing around; three years in Turkey, one year in Brazil and now Korea. And in these far-away places he crosses the paths of MSM alumni. While in Turkey he met two Turkish engineers who were MSM grads and in Korea, Schuyler Kingsland '48, was with their group of engineers.

Mrs. Gammeter is with Erwin and they are residing in Seoul and they are very pleased with the living condition. Their mailing address is UNC/OEC/SHG, APO 301, c/o Postmaster, San Francisco, Calif.

J. F. Rushing Develops New Electro Channel Joist

James F. Rushing '40, who is with the Ceco Steel Products Corporation, Chicago, Ill., as an engineer in construction products development has developed a new product and he is currently launching a national sales campaign for its introduction. This new product is the Electro Channel Joist.

This joist provides the most economical system available for under-floor electrification in quality structures.

Jim also developed the steel dome immovable form for "waffle type" two way concrete joist construction. This device was used on the construction of some of the new buildings on the MSM campus.

The Rushings live at 5729 Harvey Avenue, La Grange, Illinois.

New Scholarship Fund for Upperclassmen Established by Mr. and Mrs. John Bowles

MR. AND MRS. JOHN H. BOWLES of Lake Spring, Missouri, have established a scholarship which will provide \$400 annually for a junior or senior student at MSM.

Mr. Bowles is an alumnus of the School of Mines and Metallurgy who has retired after an active and colorful career in the mining industry following his graduation here in 1908. He also holds a master's degree from the University, which he received in 1921.

The fund will be known as the Blanche and John H. Bowles Scholarship Fund. It consists of a substantial gift of stocks in an industrial company, the income from which is to be used for the annual scholarship award.

If the yield from the principal should fail to amount to \$400 in a year, Mr. and Mrs. Bowles have asked the privilege of making up the difference in cash.

It is the expressed wish of Mr. and Mrs. Bowles that \$200 of each year's stipend be awarded as an outright gift to the recipient, and the other \$200 to be considered in the nature of a loan to be repaid, without interest, one year after the student's graduation. This repayment would be added to the principal to help assure perpetuation of the scholarship.

The Board of Curators and University President Elmer Ellis approved this provision and have made it a stipulation of the scholarship.

The scholarship will be awarded each year to a junior or senior to help him complete that year of school. The recipient is to be selected on recommendation of the dean of the School of Mines and Metallurgy, and selection will be on the basis of his personality, scholarship, and need.

Mr. Bowles has long held an active interest in his alma mater. As a student he had the unusual distinction of missing the first St. Patrick's Day celebration held at the School of Mines, although he was one of those interested in its establishment.

St. Patrick's Day had become firmly established at the College of Engineering of the University of Missouri on the Columbia campus, where the engineering students had "discovered" that St. Patrick was really an engineer and had inaugurated him their patron saint.

In 1907 the students on the Rolla campus delegated John Bowles to go to Columbia to ascertain the proper program for a St. Pat's celebration. While he was gone impatience overcame the Rolla campus and students held their first St. Pat's celebration without him. It is still an annual affair.

As a mining engineer, Mr. Bowles was connected for many years with the Potter Palmer Estate in Chicago, and his work took him to many parts of the world. Upon his retirement, he returned with his family to his boyhood home at Lake Spring in Dent County. A son, Joe Ed, remains with his parents, while a daughter, Ruth, is a senior in the School of Fine Arts at Washington University in St. Louis.



Mr. and Mrs. John Bowles

Four MSM Students Get Wilson Fellowships

Four students from MSM have been selected by the Woodrow Wilson National Fellowship Foundation, of Princeton, New Jersey, as part of a group of 1200 superior American and Canadian students to receive the Woodrow Wilson Fellowships for the academic year 1959-60.

The four selected and their fields of study are: Robert F. Bridges '57, Department of Chemistry, who will do graduate work at the University of

Illinois; Russell V. Cochran, Jr. '59, Department of Physics, who will also do his graduate work at the University of Illinois (Russell is one of the first MSM students who received an Alumni Association Scholarship); Vaughn D. Hopkins, Department of Physics, who will study at the University of Colorado; and Ronald R. West '58, Geology, who has selected the University of Kansas for his graduate program.

The purpose of the Woodrow Wilson Fellowships is to meet the critical shortage of qualified teachers and to this end they are supporting promising scholars for the first year of graduate study. The project is backed by a \$25 million grant from the Ford Foundation.

It has been predicted that between thirty and forty thousand new full-time college teachers will be needed each year to train the wave of students seeking college education during the 1960's. The current annual output of Ph.D's averages 9000 of whom only half go into college teaching.

This year's Wilson Fellows were chosen from 7,000 candidates, all nominated and all rigorously screened by committees of faculty members. These candidates came from over 700 undergraduate colleges. They will begin graduate work next fall at 80 different universities. Each Fellow receives a living allowance of \$1,500 plus the full cost of tuition and fees. Married students receive additional stipends.

Rankin on Curriculum Evaluation Committee For St. Louis School

Professor R. M. Rankin '27, Chairman of the Department of Mathematics, was one of a group of educators who constituted a committee for the re-evaluation of the Vashon High School curriculum in St. Louis, Mo. Vashon is one of the older high schools in St. Louis and was formerly devoted entirely to Negro students but has recently been integrated.

The program is part of the general evaluation of all the high schools in St. Louis, as arranged by the St. Louis Board of Education. The purpose of the study is the general improvement of their educational program in that city. Professor Rankin's study will deal with work offered in mathematics.

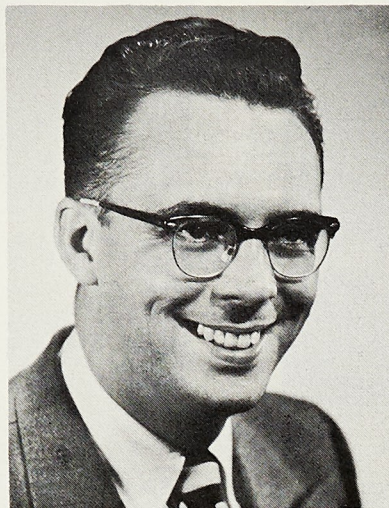
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Science Training Course for High School Students to Be Held on Campus This Summer

MSM has been selected as one of 105 colleges in the United States at which the National Science Foundation will offer a summer science training program for secondary school students. The program will be under the direction of Professor Charles R. Remington, Associate Professor of Mechanical Engineering.

Professor Remington has just returned from Washington, D. C., where final details concerning the program were worked out. A total of 34 secondary school students will be accepted for the program at Rolla. They must have completed their junior year, rank in the upper 25% of their high school class and must have indicated a previous interest in engineering and science as confirmed by their science teachers.

Students selected will come to Rolla June 14 and will remain until August 1. They will be granted funds to cover their room, board, fees, supplies and travel expenses from their hometown to Rolla and return. They will receive no stipend other than the above.



Prof. C. R. Remington, Jr.

The program will be devoted to thorough orientation in mathematics, science, chemistry, physics, engineering application and engineering laboratory.

There will be one all-expense paid field trip taken each week to some industrial organization in St. Louis, Kansas City, or other industrial areas. The classes will be conducted just as they are at the college but no college credit will be given for the work. Students will be housed in the school dormitory and will eat in the cafeteria.

Professor Remington stated that this program is one of the many fine efforts on the part of the National Science Foundation to encourage more students from the secondary schools to enter the schools of engineering and other sciences. He said that the program at the Missouri School of Mines and Metallurgy is a pilot program and the continuance of it will depend upon the evaluation of the director's report at the end of the session. This program is not regarded as a recruiting program for any individual school but a program designed to interest and recruit students for the general fields of engineering and science.

Professor Remington will be assisted by Professor John Brewer, Professor Peter Hansen, Professor Robert V. Wolf, Dr. G. E. Lorey, and Burr Van Nostrand.

Woman in EE Outranks Most Male Students

One of the twenty-four women enrolled at MSM is a brilliant little red-haired girl from Kansas City, Missouri, who is running ahead scholastically of most of the 2,904 men.

Miss Martha Shultz, clever young daughter of Mr. and Mrs. John C. Shultz, 3828 N. Elmwood in Kansas City, is in her sophomore year and she is maintaining a scholastic grade-point average of 3.67 out of a maximum possible 4.00, which is pretty good going in anybody's higher education and is almost phenomenal in such a technical field as engineering. In a college of liberal arts this grade average would qualify her for election to Phi Beta Kappa.

Even more significant, Miss Shultz is majoring in electrical engineering, where rapid strides in electronics tax the imagination and threaten to overwhelm normal perception. She could be easily mistaken for a high school freshman instead of a college sopho-

more. In North Kansas City High School she ranked second in her 1957 graduating class of more than 300 graduates. She was awarded a four-year university scholarship by the Selecta Chapter of the American Business Women's Association of Kansas City, and she chose to study at MSM. Asked why she chose the engineering profession, Miss Shultz said she has been interested in electronics ever since she began reading on the subject in grade school. While in high school she became a licensed radio operator and communicated with other "hams" throughout the world. And tests which she took indicated she would do well in the engineering field.

And how does she get along in the classes, where she is nearly always the only girl in the class? "Just fine," she says. "At first the boys were inclined to snicker. They probably figured I wouldn't last more than a few weeks. Then they began to respect me when they found I could hold my own in class, although they would kid me quite often. Now they accept me as another student. They don't make concessions,

nor do they try to make it difficult for me."

She admits the men are ahead of her in practical application but she can outrank most of them in theoretical concepts.

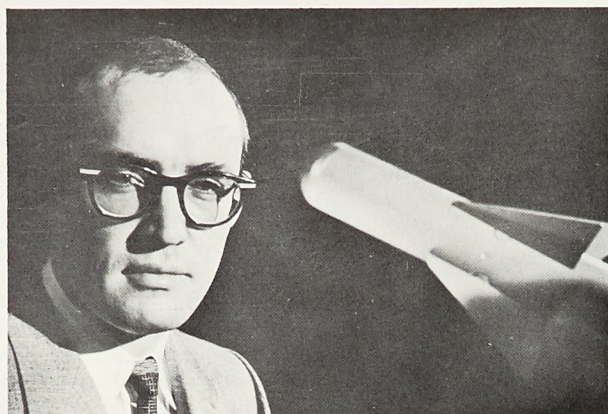
And would she advise the other girls to study engineering? "Very definitely, if they have the aptitudes necessary and are willing to do hard work, but never enroll in engineering just as a fad. It is much too difficult a course."

MSM's Met. E. Senior Class Of 55 Is Largest in U. S.

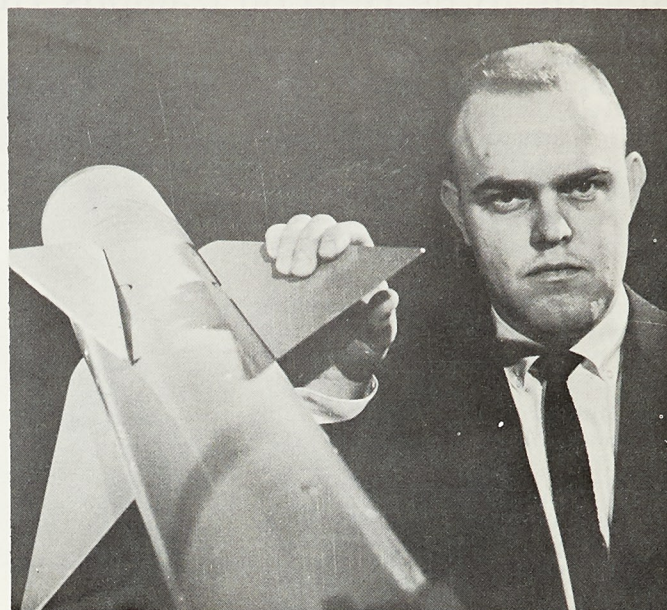
The Missouri School of Mines and Metallurgy has 55 seniors in Metallurgical Engineering this year, the largest number of any school in the United States, according to statistics printed in the *Journal of Metals* for March, 1959.

The next largest group of seniors in Metallurgical Engineering in any one school is 52 and the third is 46. There are a total of 766 seniors in Metallurgical Engineering in the United States this year.

Infra-Red "Sidewinder" Displayed on Campus



Above: Conrad L. Neal '54, and at right: Gary Davis '57. These two NOTS scientists assisted in the development of the Navy's "Sidewinder."



Two Alumni Demonstrate Navy's New Homing Device

Conrad Neal '54 and Gary Davis '57, who are with the U. S. Naval Ordnance Test Station, China Lake, California, were on the campus the second week in March demonstrating the operation of the infra-red homing device of "Sidewinder," the nation's most effective air-to-air guided missile.

Conrad is Supervisory Electronic Scientist in charge of Design and Development of Sidewinder guidance control system at China Lake, and Gary is Electronic Scientist on the same project.

According to Neal, "Most guided missiles are so complicated it is difficult to demonstrate how they work; not so with Sidewinder. All you need to do is wave a lighted cigarette in front of its infra-red detecting eye and you immediately see its fins flapping in response. The reaction to a cigarette heat source is similar to that which the missile has toward the heat from enemy jet aircraft. The working model of Sidewinder demonstrates the simplicity of the missile—the kind of simplicity that makes the missile extremely reliable and effective."

The showing of Sidewinder at MSM marked one of the first demonstrations of the infra-red guidance system at an educational institution.

At present there are thirty-six MSM

alumni employed at NOTS, and most all of them are graduates of the last five years.

Inspect Curricula at Several Universities

Dean Curtis L. Wilson was a member of a team of prominent engineering educators who inspected the engineering curricula at Ohio State University and University of Cincinnati. These inspections are done under the auspices of the Engineering Council for Professional Development which is the accepted accrediting agency for engineering curricula. Later Dean Wilson will go to the University of California for a similar accreditation inspection.

Dr. D. S. Eppelsheimer, Professor of Metallurgical Engineering, was chosen on a team of engineers who inspected the curricula at the University of Kentucky, Wayne State University, at Detroit, University of Notre Dame and the Illinois Institute of Technology, for ECPD accreditation.

Professor E. E. Carlton, Chairman of the Civil Engineering Department, recently served as a member of the inspecting team for the University of Oklahoma and the University of Oklahoma City. This inspection was also for ECPD accreditation.

P. H. Bohart Promoted By Gulf Corporation

Phillip H. Bohart '19, has been designated Administrative Vice President and Coordinator, Crude Oil Department, Gulf Oil Corporation. A veteran of nearly 40 years with the company, he is responsible for the administration of the Crude Oil Department's worldwide affairs, and for coordinating them with other departments concerned. In addition he is chairman of the company's Crude Oil Council, and a representative of the administrative committee.

Mr. Bohart started with Gulf in Texas as a geologist in 1919. The following year he was assigned to the company's operations in Mexico. Aside from a special assignment in 1925 to conduct a geologic survey in Colombia, he continued to serve in Mexico for the next 14 years. He had risen to General Manager of Mexican Gulf Oil Company by 1934 when he was transferred to Tulsa, Oklahoma. Early in 1935 he was elected as a Vice President of the company's subsidiaries, the Gypsy Oil Company, and the Gulf Pipe Line Company of Oklahoma. When Gulf took over the assets of these companies in 1936, Mr. Bohart was made Assistant to the Vice President, Gulf Oil Corporation, with headquarters at

MSM Alumnus

Tulsa. During World War II he served for a year as Director of Production, Petroleum Administration for War. In 1947 he made a special survey of operations of Gulf's interest in the Middle East.

In May, 1950, Mr. Bohart was elected a Vice President, Gulf Oil Corporation, and placed in charge of the Tulsa Production Division. In the spring of 1956 he was transferred to the General Office in Pittsburgh to head the Planning and Economics Department, a new unit that had been formed to supply Management with information and recommendations concerning Gulf, the industry, and business in general.

In his new capacity as Administrative Vice President and Coordinator Crude Oil Department, Mr. Bohart will continue to be headquartered in Pittsburgh.

Missouri-Arkansas ASEE Meets at MSM

The annual meeting of the Missouri-Arkansas Section of the American Society for Engineering Education was held on the MSM campus, April 4. The theme of the meeting was "Frontiers of Engineering," reflecting the rapid advances in the frontiers of science as it is applied to our society and culture throughout the world today.

A wide range of topics were included: "Engineering Education in Russia Today," "The Ocean—the Potentialities and Problems of Undersea Warfare," "Nuclear Education," "Materials of Engineering," "Nomographs and Related Subjects," and "Development of Engineering Education in the Mo-Ark Section."

Preceding the annual meeting was a joint meeting of the ASCE and SAME at Ft. Leonard Wood, Friday evening. Major General Robinson (retired), Vice President of Sverdrup & Parcel, Inc., consulting engineers, St. Louis, Mo., was the speaker.

Professor Harold A. Foecke, Electrical Engineering Department, Notre Dame University, was the principal speaker in the general meeting held in the Auditorium, Parker Hall.

At the annual banquet held in Rayl Hall, Dr. A. W. Schlechten, MSM, Chairman of the Section presided. The speaker for this occasion was Dr. Ralph A. Morgen, Director of Research Foundation, Purdue University, Vice Presi-

dent (ECAC) of the ASEE. Dr. Morgen gave his impressions of engineering education in Russia today. He has recently returned from Russia as one member of a committee selected by the engineering society and sponsored by the Department of State to visit a number of the engineering institutions of Russia.

Officers elected for the coming year are: Chairman, Prof. Joseph C. Hogan, U. of Missouri; First Vice Chairman, Prof. John L. Imhoff, U. of Arkansas; Second Vice Chairman, Prof. Victor T. Allen, St. Louis University; Secretary, Franklin D. Harris, U. of Missouri; Member of Council, Dr. Dudley Thompson, MSM.



Dr. Ralph A. Morgen

F. J. Van Antwerpen Speaks To Student AIChE Chapter

MR. FRANKLIN J. VAN ANTWERPEN, Executive Secretary of the American Institute of Chemical Engineers, was the guest of and the principal speaker for the MSM Student Chapter of the AIChE at its November meeting. This was the first time a national officer of the AIChE had visited the campus to speak to students.

The theme of Mr. Van Antwerpen's talk dealt with the inspirational and ethical objectives of all professions including engineering in general and the chemical engineers in particular. Emphasis was laid on the use that the engineer would make of his education rather than on his technical proficiency. The

part that the engineer plays in society and in our culture was stressed. The function of the professional technical societies constituted the focal point of interest in the talk given by Mr. Van Antwerpen.

Mr. Van Antwerpen received his training in chemical engineering from Newark College of Engineering and Columbia University and has been active in the chemical engineering and chemistry fields since 1935. He was associated with laboratory, research and executive positions in the chemical industry before entering the field of chemical publications. He served as associate editor and later managing editor of "Industrial and Engineering Chemistry" from 1938 to 1946. From 1946 to 1954 he was editor and business manager of "Chemical Engineering Progress." Mr. Van Antwerpen was appointed Executive Secretary of AIChE in 1955.



Franklin J. Van Antwerpen

Mr. Van Antwerpen is the co-author of a historical volume, "High Lights of the First Fifty Years of the American Institute of Chemical Engineers," which commemorates the fiftieth anniversary of the AIChE.

Mr. Van Antwerpen is actively engaged in committee work with the Engineers Council for Professional Development, Atomic Energy Commission, and the Society for Engineering Education, as well as being in intimate contact with the chemical engineering profession.

2500

St. Pat's Celebration Upholds Traditions

St. Pat made his fifty-first visit to the School of Mines campus on March 13 and 14. Friday, the thirteenth, did not dishearten him, nor could this age-old ill-omen distract him from his intent to begin the second half-century with a visit that would maintain the standard of his visits of the past, and set a pattern to attain in the future.

The queen this year was selected by a personal view of the contestants rather than by photos as in the past. And the choice sanctioned this method of selection. Pretty Miss Linda Fitzgerald, of Springfield, Missouri, was picked to reign as the St. Pat's Queen of 1959. This was not Miss Fitzgerald's first honor for her beauty and charming personality. The Springfield Chamber of Commerce chose her as an attendant to Miss Merry Christmas of 1956. In 1958, she was picked as Miss Springfield. Also in 1958 she represented Southwest Missouri State College, where she is a student, in the Who's Who Among Students in American Universities and Colleges.

Miss Fitzgerald represented the Kappa Sigma fraternity and she was the third successful queen candidate to be nominated by Kappa Sigma in the past three years. Miss Fitzgerald's escort was Kappa Sig Don Wisdom.

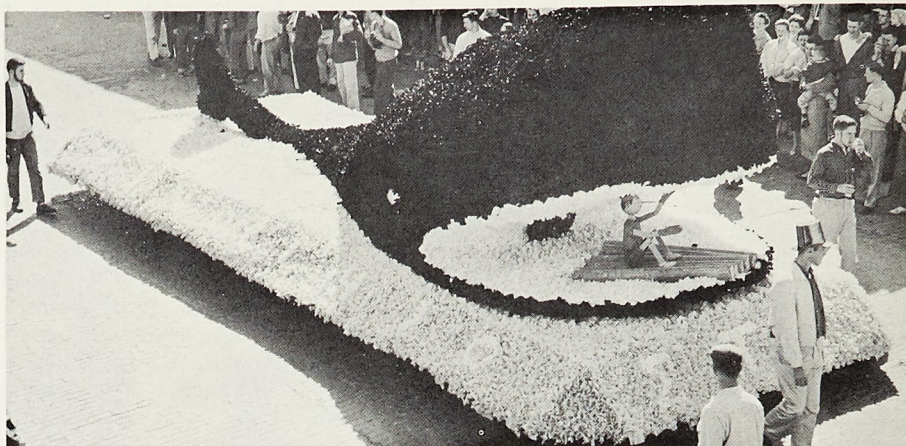
The parade of floats was very colorful and the first place award went to the Sigma Tau Gamma fraternity. The float depicted a huge whale displaying the fictitious puppet Pinnocchio in its jaws. The tail and eyes moved and the puppet was waving a wand. Flowers were shot from the spout of the whale in place of water.

Ralph Marterie and his band were present to furnish the musical styles that skyrocketed his group to popularity and that were commensurate to the gala masquerade ball and the semi-formal dance in Jackling gym.

TKE's John Grover Murphy was St. Pat for the 1959 festivities.

THE ALUMNI ASSOCIATION
NEEDS YOUR HELP
TO ATTAIN OUR GOAL
OF 2500 CONTRIBUTORS
TO THE
ALUMNI FUND

Winning Float



The Sigma Tau Gamma float that won first place in the St. Pat's parade

Magazine Features Baroid Division Headed by Graduate

The "Barascope," the publication of the Baroid Division, National Lead Company, in the January-February issue devoted their center two-page spread to the Baroid Equipment Department, Houston, Texas. This de-



P. J. Moore

partment is supervised by P. J. Moore '39, manager and inventor, who has been issued several patents covering various features of well logging operation and apparatus. These patents include: the Oil and Water Retort Kit; the Vertical Gas Trap; and the Filament in Blender Gas Extracting Apparatus. In addition to the foregoing, P. J.

has several patent applications pending in his name.

Mr. Moore has been with the Baroid Division since 1945. He lives at 8430 Bluegate, Houston 25, Texas.

Flat River Boy Gets St. Joseph Lead Award

Frank Cummings, son of Mr. and Mrs. F. W. Cummings, 23 Vine Street, Rivermines, Missouri, who is presently heading the senior class at the Flat River High School, has been selected to receive the St. Joseph Lead Company Scholarship beginning with the academic year 1959-60.

Frank was selected from among 15 applicants who were nominated by the school officials of the high schools in St. Francois County within the towns of Herculaneum, Fredericktown and Potosi, Missouri, for the award. Frank, in addition to being head of his class, made a score that placed him in the 99th percentile among high school students of Missouri on the Ohio Psychological Test and a score that placed him in the 98th percentile on the national average on the Pre-Engineering Ability Test. It was on the basis of these two tests, his rank in class, and the recommendations from his high school officials that he was selected for the award.

THE MSM ALUMNUS
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Alumni Section News

Colorado Section

The Colorado Alumni Section held their annual dinner party at the new 26 Club in the First National Bank Building of Denver to celebrate St. Pat's on Saturday night, March 14, 1959. Mr. and Mrs. Clifford R. Wilfley were guests of honor commemorating Cliff's 54 years of service to the engineering profession. Speeches honoring Cliff were given by Harvey Tedrow and John Post who also read a testimonial written by Dean Wilson concerning Cliff.

Those in attendance were Mr. and Mrs. R. F. Boswell '48 and Mrs. Jane Munroe, Mr. and Mrs. Jed G. Burnham '34, Mrs. Kirk V. Commack, Mr. and Mrs. Joe R. Clair '38, Mr. and Mrs. Jack N. Conley '31, Mr. and Mrs. Jerry E. Couch '25, Mr. and Mrs. Thomas V. Cummins '33, Father L. E. Dieckman '49, Mr. and Mrs. F. W. Heiser '39, Mr. and Mrs. R. R. Kaley '37, Mr. and Mrs. Joe C. Knittel '42, Mr. and Mrs. R. L. Martin '49, Mr. and Mrs. John R. Post '39, Mr. and Mrs. C. K. Rose '33, Mr. and Mrs. L. L. Rosine '53, Mr. and Mrs. E. B. Sanders Ex '24, Mr. Harvey L. Tedrow '11 and Mrs. Wyonne Hunt, Mr. and Mrs. Clifford R. Wilfley '05, Mr. and Mrs. M. F. Murphy '31, and Mr. and Mrs. Cliff Page '31.

Arizona Section

On February 18, 1959, Arizona Section Alumni gathered at the Phoenix home of Mr. and Mrs. Fred E. Dreeste '43, for an informal buffet dinner meeting in honor of Dean and Mrs. Curtis L. Wilson and Mr. Francis C. Edwards, Executive Secretary of the Alumni Association.

Mr. Rowland Tragitt '23, first secretary of this section, gave a brief resume of our chapter's inception and growth. He noted some of the interesting meetings held around the state by our section, among them the inspection trip through the San Manuel Copper Mine last June and the more recent meeting



One of the tables at the Arizona Section meeting on February 18, held at the home of Mr. and Mrs. Fred E. Dreeste '43 in Phoenix. Clockwise around the table from the left: Alvis F. Denison '22, Mrs. E. R. Tragitt, Ike Edwards, Mrs. C. M. Browning, Dean Curtis L. Wilson, Mrs. Wilson, John L. Brixius '47, Mrs. D. E. Huffman, E. R. Tragitt '23, Mrs. Brixius, D. E. Huffman '22, Mrs. A. F. Denison.

held at the AIME Convention in Tucson last December.

Each alumnus present reviewed his activities since graduation and introduced his wife. Classes represented ranged from 1910 through 1951.

Chairman Brixius '47, then presented Dean Wilson who entertained the group with a talk outlining the school's recent growth and noting the new building projects recently completed and in progress. He stressed the school's desire to continue in its intent of excellence in engineering rather than diversification toward university status. Dr. Wilson urged those present to gain more out of life by desiring more, to be willing to pay more for the goals we seek, and to do more to help ourselves, our school, and our fellow alumni.

Mr. Francis "Ike" Edwards closed the meeting by showing some recent pictures of the MSM campus which were greatly enjoyed by all.

Those attending were: Mr. and Mrs. John K. Forman '10, Mr. and Mrs. Ben H. Cody '11, Mr. and Mrs. M. H. Detweiler '11, Mr. and Mrs. J. C. Finagin '14, Mr. and Mrs. John Young '17, Mr. and Mrs. Daniel E. Huffman '22, Mr. and Mrs. E. Rowland Tragitt '23, Mr. Henry E. Zoller '23, Mr. and Mrs. Alvis F. Dennison '22, Mr. and Mrs. Robert Winkle '42, Mr. and Mrs. Fred Dreeste '43, Mr. and Mrs. John L. Brixius '47, Mr. and Mrs. H. G. Grigsby '48, Mr. and Mrs. Charles Browning '48, Mr. and Mrs. John W. Wright '49, Mr. and Mrs. Robert J. Pennington '50, Mr. and Mrs. Gordon E. Napp '51.

Loyal Knights of St. Patrick, MSM Alumni, Arizona Section, gathered at Del Webb's Hiwayhouse in Phoenix on March 14 to pay homage to the grand old gentleman and renew old acquaintanceships.

After briefly testing the snake chasing solutions on hand, those present enjoyed a banquet dinner, arranged by Mr. Daniel E. Huffman '22.

Chairman Brixius opened the meeting with a letter from Alvis F. Denison, '22, inviting the Section to hold its summer meeting at Mr. Denison's mine property near Heber, Arizona. The gracious invitation was accepted and plans are for the meeting to be held on Saturday, July 18. Chairman Brixius also read a letter from Mr. Francis "Ike" Edwards, MSM Alumni Association Executive Secretary, in which "Ike" noted the enjoyable meeting attended in Phoenix, February 18, by Dean and Mrs. Wilson and himself.

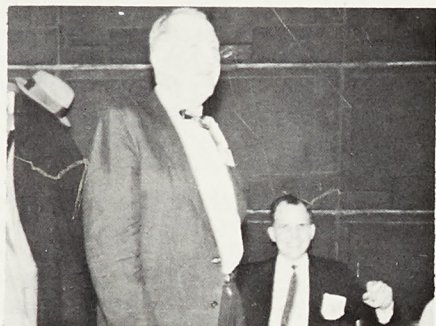
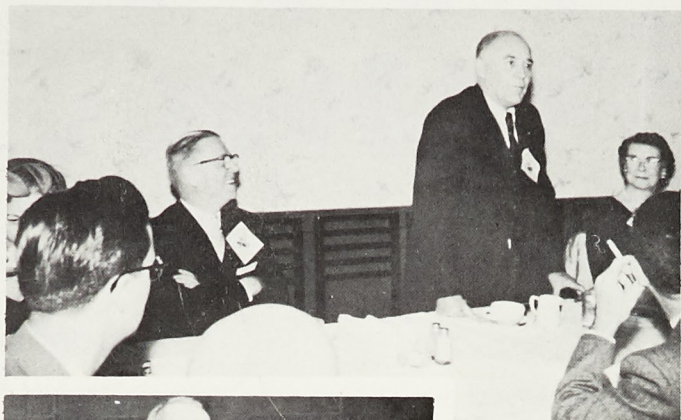
At this time Master of Ceremonies Jack Wright '49, called on Sgt-at-Arms Joe Finigan '14, to bring forth St. Pat's. After several mumbled incantations and the use of a witchin' wand, St. Pat was discovered to be hiding in the earthly guise of John Forman '10.

All loyal sons were called forward to kiss the Blarney Stone and pay homage to St. Pat who, by this time, was wearing his traditional regalia.

The meeting was adjourned after the singing of traditional Miner's and St. Pat's songs (expurgated versions).

Those attending were: Mr. and Mrs.

Alumni Entertain MSM Officials in San Francisco



Upper left, Dean Curtis L. Wilson, E. D. Lynton '12, and Mrs. Wilson. Upper right, Dean Wilson addressing the meeting after dinner. Lower left, Prof. A. Legsdin acknowledging the introduction. George H. Wagner '47, seated. Lower right, B. H. Clemmons '32, W. K. Schweickhardt and Charles A. Freeman, both '28.



John K. Forman '10, Mr. and Mrs. Ben H. Cody '11, Mr. and Mrs. M. H. Detweiler '11, Mr. and Mrs. Jos. C. Finagin '14, Mr. and Mrs. George E. Ude '16, Mr. and Mrs. John Young '17, Mr. and Mrs. Daniel E. Huffman '22, Mr. and Mrs. H. E. Zoller '23, Mr. and Mrs. John P. Harmon '28, Mr. and Mrs. Austin E. Daily '34, Mr. and Mrs. Robert Winkle '42, Mr. and Mrs. Fred E. Drester '43, Mr. and Mrs. John L. Brixius '47, Mr. and Mrs. C. M. Brown- ing '48, Mr. and Mrs. Stanley Johnson '48, Mr. and Mrs. John Wright '49, and Mr. and Mrs. Gordon E. Napp '51.

San Francisco Bay Section

The MSM Alumni in the San Francisco, California, Bay Area held a dinner meeting on February 17, 1959, at Marconi's Restaurant, 122 Battery St., San Francisco. This meeting was held during the period that the national convention of the American Institute of Mining and Metallurgical Engineers was held in San Francisco. The timing enabled attendance of both those alumni living in the area and those out of town alumni and faculty members from MSM, present for the AIME convention.

There was a social hour and visiting

before the dinner. After dinner, Ike Edwards, Executive Secretary of the MSM Alumni Association, showed color slides of current construction and changes taking place on the MSM campus.

E. D. Lynton '12, acted as master of ceremonies for the evening and introduced Dean Curtis L. Wilson who was the principal speaker.

The meeting was arranged by Robert L. Ray '47, James R. Bryant '47, George H. Wagner '47 and Howard Histed '28. There were sixty-five alumni and guests in attendance. Among those present were: Walter I. Phillips '07, Mrs. A. Emory Wishon, J. D. Harlan '10, Van H. Smith '10, A. D. Bryant '10, Mr. and Mrs. E. D. Lynton '12, W. P. Gatts '23, Phillip L. Blake '24, R. H. Wightman '26, Mr. and Mrs. A. P. Berry '28, Chas. A. Freeman '28, Mr. and Mrs. Howard Histed '28, W. K. Schwickhardt '28, Mr. and Mrs. Allen Stone '30, Mr. and Mrs. Robert F. Hippler '32, B. H. Clemmons '32, R. P. Rhoades '32, Joe Robotto '35, Reade M. Beard '36, Mr. and Mrs. Edwin A. Ballman '38, Mr. and Mrs. Joseph Murphy '38, Mr. and Mrs. Lewis A. Gleason '39, Glenn E. Brand '39, Carl H. Cotterill '40, Sam Kurtz '42, Makoto Kawaguchi '45, Kay L. Ikeuye '46,

Mr. and Mrs. Robert L. Ray '47, Mr. and Mrs. William Distler '47, Mr. and Mrs. James H. Bryant '47, Mr. and Mrs. George H. Wagner '47, Mr. and Mrs. Gerardo Joffe '48, T. S. Liu '49, John W. Chang '49, Mr. and Mrs. Joe Serick '49, John S. Winston '50, Thomas A. Holmes '50, Max E. Hauser '50, M. S. Tischler '51, Owen E. Thompson '51, Norbert F. Neumann '52, Al Neiman '53, Wallace T. Harper '53 and Roy Nyman '55. From the MSM campus: Dean and Mrs. Curtis L. Wilson, Ike Edwards, Professors A. Legsdin, George B. Clark, H. R. Hanley, Tom Morris, Ray E. Morgan and Paul Dean Proctor.

Sierra-Mojave Section

The winter meeting of the Sierra-Mojave Section was held on 11 February at the Groves Street Cafetorium, U. S. Naval Ordnance Test Station, China Lake, California. President Lyman Van Buskirk '52, presided over the meeting.

The meeting started with a pot-luck supper, followed by several announcements, a movie, and the introduction of several special guests. They included Dean and Mrs. Curtis L. Wilson, Leon

Hershkowitz of MSM, "Ike" Edwards, Executive Secretary of MSM Alumni, Barney Nuell of the Los Angeles section, Mr. and Mrs. Harold Metcalf, and Mr. and Mrs. Budd Gott, of China Lake.

Dean Wilson's talk of "The Road Ahead" was presented in his usual excellent fashion and was enjoyed by all.

Three new arrivals from MSM to the station were introduced: Jim Yates '59; Jim Wiemholt '59, and Mr. and Mrs. John Burmeister '59.

Approximately fifty, alumni and wives, attended the meeting. The next meeting will be sometime in June at the Officers Club swimming pool.

On 10 February Dean Wilson, Hershkowitz and Edwards were taken on a tour of NOTS and shown some of its facilities and functions. Mrs. Wilson was entertained at a tea given by alumni wives.

Philadelphía Section

The Philadelphia Section held a St. Pat's Party at the Officer's Club of the Philadelphia Naval Shipyard on March 18. Arrangements for this gathering were made by Comdr. D. H. Short '43.

The group had a very enjoyable evening dining, dancing and talking over old times.

Those present were: K. Arnesen '56 and date, Mr. and Mrs. G. H. Bradshaw '42, Mr. and Mrs. A. J. Ballesterio '51, Mr. and Mrs. David Cutler '42, Mr. and Mrs. P. H. Delano '29, Miss Helen Delano, Mr. and Mrs. H. E. Chapman '50, Mr. and Mrs. George Hughes '58, Mr. and Mrs. J. A. Maddox '50, Mr. and Mrs. J. A. Miller '58, Mr. and Mrs. B. D. Pewitt '42, Mr. and Mrs. R. R. Robotti '51, Mr. R. F. Schmidt '45, Comdr. and Mrs. D. H. Short '43, Mr. and Mrs. S. G. Varsos '55, and Mr. and Mrs. R. V. Williams.

This Section is planning to have a joint picnic with the Northern New Jersey Section during the coming summer.

Kansas City Area Section

The Kansas City Area Section held their quarterly meeting, April 3, 1959, at the Old Plantation, on Highway 40 east of Kansas City, Missouri. After a pleasant social hour, and excellent meal, a business meeting was called to order by the retiring President George Parish '55.

March April 1959

Sierra-Mojave Section



MSM AND ALUMNI OFFICIALS MEET WITH SIERRA-MOJAVE SECTION AT CHINA LAKE, CALIFORNIA. L. to R.: Leon Hershkowitz '41, Sec'y-Treas. MSM Alumni Association, Lyman Van Buskirk '52, President of Sierra-Mojave Section, Gary Davis '57, Sec'y-Treas. of Section; Dean Curtis L. Wilson; Joe Deibold '57, V. President of Section; Conrad L. Neal '54; Barney Nuell '21, V. P. MSM Alumni Association; Ike Edwards, Exec. Sec'y MSM Alumni Association.

The Nominating Committee presented their slate of officers and they were elected by unanimous vote of the members.

The newly chosen officers are: President - Lovell J. Lukrofka '50; Vice President - Paul Gebhardt '47; Secretary-Treasurer - J. P. Bryan '23. The new officers promised to exert their best efforts toward continued growth of the section.

The following alumni and their wives were in attendance: Walter E. Case '22, E. Taylor Campbell '23, J. P. Bryan '23, James W. Stephens '47, Paul Gebhardt '47, Loren H. Selleck '47, Joe Gunther '48, J. J. Sponske '50, Randall L. Garten '53 and George W. Parish '55.

A picnic was favored as the next event on the yearly program, to take place in July. The time and place is to be decided by the Program Committee.

Monthly Alumni Luncheons

All MSM alumni who reside or should be in Denver, New York or St. Louis on the dates indicated below are invited to attend the monthly alumni luncheons that have been established by the local sections.

New York, New York - Mining Club, 33 Broadway, 5th Floor, at Noon, first Thursday of each month. Contact: J.

Craig Ellis '38 - Phone Worth 2-1584.

Denver, Colorado - 26 Club, First National Bank Building, first Monday of each month at noon. Contact: John R. Post '39, 215 Mile High Center Building - Phone AL 5-0447.

St. Louis, Missouri - Surf and Sirloin - Forest Park Hotel, West Pine and Euclid, at Noon, third Friday of each month. Contact: Ken Hanson '36 - Phone Mission 7-4350.

ALL MSM ALUMNI
ATTENDING
THE INTERNATIONAL
PETROLEUM
EXPOSITION IN
TULSA, OKLAHOMA
ARE INVITED TO A
SOCIAL HOUR
WEDNESDAY, MAY 20,
1959 SPONSORED
BY THE TULSA
SECTION. CONTACT
BENNETT HOWELL
BOX 201, TULSA, OR
PHONE CH 2-6171
EXT 715 FOR
RESERVATIONS.

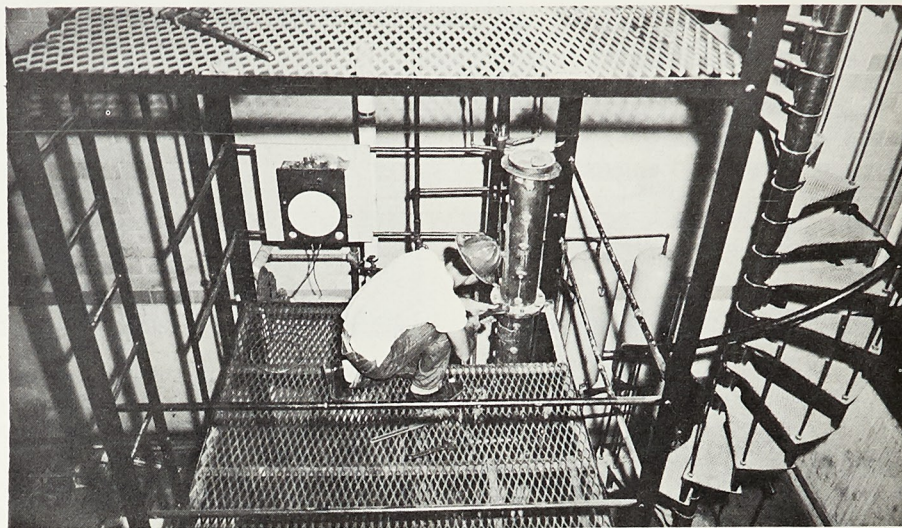
First Summer Laboratory in Chemical Unit Operations Proves Valuable; Enrollment to Be Doubled in 1959 Session

FOR HIS FOLK OPERA, "Porgy and Bess," George Gershwin wrote a song which related, "Summertime, when the livin' is easy." However, this was not the case in the Chemical Engineering Department during the past summer. Summertime had taken a "new look." The unit operations laboratory was abounding with "activity," instead of the usual peaceful summer existence. Some of the "activity" was even clad in classy Bermuda shorts on warmer days.

The instigation of a new summer laboratory session in Chemical Engineering Unit Operations was the reason behind such effort. This course permits the unit operations laboratory, normally taken during the regular school year concurrently with other classes, to be taken primarily by itself. This affords a higher quality of instruction to be offered.

It has long been a problem for a Ch. E. student to prepare a schedule during his Junior and Senior years that does not contain at least 18 hours of laboratory per week. This situation greatly hampered the student in both laboratory and lecture courses. Dr. Dudley Thompson, department chairman, had observed the success of summer laboratory courses at other institutions. After consideration by the staff and a show of interest on the part of the students involved, a summer laboratory program was planned for Ch. E. Unit Operations and approved by the faculty. The schedule calls for six hours of laboratory each day, Monday through Friday. Thus, during the eight-week period, a student spends an equivalent amount of time in the laboratory as he would during the regular school year. The laboratory course is also presented as integrated and coordinated instruction that was not previously feasible.

The objective of the laboratory is to encourage students to obtain greater proficiency and understanding simultaneously with increased knowledge of the operations that are performed. The "cookbook" type of laboratory experiment was discarded and each student required to devise experimental tests and procedures to be used as well as to perform these tasks. The unit operations course has become one in which



CHEMICAL ENGINEERING student, in the Unit Operations Laboratory, MSM, examines a distillation column during a period of preventive maintenance. Recent changes in this instruction, now being offered during the summer session, provide means of applying theoretical knowledge in the "Internship" now a part of the training for students of Chemical Engineering.

the student is no longer an individual working alone on a stereotyped project or experiment, but he is one of a group striving for a common goal which may be attained only through joint effort and cooperation.

Twelve students enrolled in the first summer session. Each student was assigned a specific project at the beginning of the laboratory session and this served as the subject for his project report. The planning of the test procedures and the ultimate goal for the work was of his own choice (under guidance and within limits). Each student was encouraged to use to the maximum his initiative. Each student was given an opportunity to devise experimental tests to be conducted by the other students and to direct their performance. In addition to these duties, he was responsible for the maintenance of the equipment under his supervision. Much of the equipment in the laboratory was improved operationally as a result of the work of these students.

The unit operations laboratories are offered during the regular school year, as not all students are able to attend the summer session. However, many of the procedures developed during the summer session have been integrated

into the course during the regular school year. The first semester laboratory covers the experimental phase of the work. In the second semester, maintenance and modernization of existing laboratory equipment is stressed. This offers the opportunity for the student to work with laboratory equipment and become familiar with its fabrication and repair procedures. He is exposed to the problems of supervision in that he is often called upon to direct a project from the design through the operational phase. Having actually performed all of these steps, he will have a better understanding of some of the problems that he will face upon his entry into the field of engineering. This experience helps the student to cope with other similar problems in a more mature manner.

The first summer laboratory was directed by Warren Keller '51 and Donald E. Puyear '54. Two additional M.S.M. graduates, David Bunch '57 and James W. Johnson '57, have been associated with the laboratory work during the 1958-59 school year.

The summer of 1959 promises to be an outstanding one as the enrollment for the laboratory will be twice that of last year.

Four Freshmen, Two Sophomores to Receive Alumni Association Scholarships in 1959-60

THE SIX SCHOLARSHIPS sponsored by the MSM Alumni Association have been awarded for the 1959-60 academic year opening in September. There will be two of the scholarships that will be renewed, as the freshmen who were awarded the scholarships last year have attained a scholastic record that merits this scholarship award for their sophomore year.

The Joe B. Butler Memorial Scholarship, for a freshman enrolling in civil engineering, has been granted to Robert Badgley, a senior at the Ritenour High School, St. Louis County, Missouri. Badgley ranks 13th in a class of 413. His score on the Ohio Psychological Test placed him in the 95th percentile, Missouri average, and on the Pre-Engineering Ability Test he was in the 98th percentile, national average. Robert received the following honors: seven semesters on the school honor roll and acceptance into accelerated courses in English, Mathematics, and Physics. His extra-curricular activities included the Chemistry Club, football team and junior achievement.

The three other recipients were: Lonnie Shalton of Independence, Missouri, a senior at the Van Horn High School, Kansas City, Missouri. He ranks 8th in a class of 207. The Ohio Psychological Test placed him in the 96th percentile and the Pre-Engineering Ability Test placed him in the 99th percentile. His extra-curricular activities include the Sigma Tau Literary Society, National Honor Society, Engineer's Club, student council representative, intramural sports and basketball student manager.

Wayne Schoeffel, a senior at the Alton High School, Alton, Illinois, is interested in engineering in the automobile and aircraft industries. His score on the Pre-Engineering Ability Test placed him in the 99th percentile, national average. On the college entrance board examination he made a score of 723 out of a possible 800 on the Mathematics Test. Wayne played in the municipal band and different dance groups. His extra-curricular activities include the DeMolay Past Master Councilor, Radio Club and Church Youth Fellowship.

Michael Miner is a senior at the Kirkwood (Mo.) High School and ranks 106 in a class of 392. On the Ohio Test he was in the 97th percentile and the Pre-Engineering Test placed him in the 97th percentile. Mike has been granted the privilege by the McDonnell Aircraft Corporation, St. Louis, Missouri, to participate in their co-op program during his sophomore, junior and senior years. Due to his age he will not be able to participate in this program his freshman year. Mike has received

In-Service Institute For Teachers Planned

An In-Service Institute for Secondary School Teachers of Science and Mathematics will be conducted at MSM during the next academic year opening in September.

The Institute is made possible through a grant of \$7,960 from the National Science Foundation and it will be directed by Dr. Harold Q Fuller, Chairman of the Department of Physics. This is separate from and not to be confused with the Summer Institutes for high school teachers which will be held on the MSM campus during the coming Summer Session. The Institute is being offered primarily for the benefit of teachers of science and mathematics in the high and junior high schools in the Rolla area, and the classes in the courses will be arranged to meet once a week either in evenings or on Saturdays so that teachers may commute to the campus for classes without interfering with their regular teaching duties.

The grant is intended to provide payment of tuition and fees for the courses for participants, and a limited amount for travel expenses to and from the classes. It does not provide for any stipend to be paid to enrollees such as provided in the Summer Institutes.

The purpose of the Institute, however, is the same as that of the Summer Institute in Science and Mathematics.

This will be the first time such an Institute has been conducted during the regular academic year at MSM.

the following honors: National Merit Scholarship Commendation, Washington University Press Conference in Sports Writing, ranked 2nd in the Missouri Interscholastic Press Association in sports reporting division, and Eighth Grade Literature Award. His extra-curricular activities were: the Toastmaster's Club, past secretary; Student Newspaper, Quill and Scroll, church fellowship and little theater. All of these students were outstanding in high school and through the testing program it is indicated they will continue high scholarship in college.

J. G. Jolly Heads Granco St. Louis Sales Office

John G. (Jay) Jolly '54, has been promoted to District Manager of the St. Louis, Missouri, sales office of the Granco Steel Products Company effective April 1. Mr. Jolly came to Granco as sales engineer in 1956 and was assigned to the St. Louis district office located at 7530 Forsyth Blvd., Clayton, Mo. He is a member of the Engineers' Club of St. Louis and the St. Louis chapter of the Producers Council.

After graduation in Civil Engineering he became representative in St. Louis for the Aluminum Company of America. He is a member of Theta Tau, national honorary engineering fraternity, and Chi Epsilon, national honorary civil engineering fraternity. John is married and the Jollys have two children and they live at 750 Alanta Avenue, Webster Groves, Missouri.

Catholic Frats in Merger; To Be Phi Theta Kappa

The national councils of Phi Kappa fraternity, founded at Brown University in 1889 and Theta Kappa Phi fraternity, founded at Lehigh University in 1919, announce the consolidation of their collegiate fraternal societies thus forming the united fraternity of Phi Kappa Theta which is being chartered on April 29, 1959, in the seventieth year of the fraternity.

Theta Kappa Phi have a chapter on the MSM campus and received its charter as Mu chapter in 1936. The chapter here at MSM was formerly the Order of Cardinal Mercier which was founded in 1925.

John Duba Chicago's "Deputy Mayor"

The following are excerpts from the Chicago Sun Times article concerning John G. Duba '49.

A slender studious ex-professor is completing his first year in the newest "hot spot" in Chicago's massive city government. The man is John G. Duba. Although his job is officially chief administrative officer to Mayor Daley, he is known around City Hall as "the deputy mayor."

The mayor hired Duba to get more things done faster in the city government. In carrying out that task, Duba said, he has been forced to step on some toes and to push and prod people who previously were not used to such treatment. But Duba has made few—if any—enemies for a man with such a touchy job. He has a knack for making people feel they are working with him, not under him.

Much of Duba's first year has been spent working with Commissioner of Public Works George L. DeMent in coordinating and expediting work on the city's vast construction programs.

Although he won't take credit for it, all of the city's major programs are moving either on schedule or ahead of schedule and Mayor Daley has very clearly indicated Duba is responsible for the speed-up.

Duba explains it this way: "Until I was appointed, there was really no one in the city government who was in on every phase of a project. Now, I sit in on the planning, work with the engineering department, the comptroller and budget director in the finance department, the purchasing department on contracts, the law department on expediting contract approval, and finally the agency responsible for the construction—the department of public works, or waters and sewers, or streets and sanitation." And in every phase, Duba pushes and pushes to move things rapidly as possible. He is quick to pick up the important elements of a problem and quicker yet to work them out, according to Mayor Daley.

Duba got the job, the mayor said, on his merit as a highly trained professional administrator specializing in public works. Duba has tried to avoid public spotlight in favor of work behind the scenes—much of it in his sixth-

floor City Hall office while chewing a black cigar. "When organizations found out I wouldn't be too windy, they invited me to speak," Duba said.

Duba also meets visiting dignitaries and delegations when the mayor is unavailable—and for this he takes over Daley's office.

Duba received his B. S. degree in Civil Engineering at MSM and was an instructor in the Civil Engineering Department.



John G. Duba

MSM Swimmers Have Good Record; Track Starts Slow

The MSM varsity swimming team completed a successful season; although it was not as spectacular as the 1958 team accomplished, they won six of their nine intercollegiate meets. They accumulated a total of 418½ points and their opponents totaled 352½. The results of the individual meets were:

MSM	OPP.
65 Ft. Hayes (Kans.) State	21
52 St. Louis University	34
32 Washington University	54
24 Southern Illinois University	62
56 Illinois Normal University	30
45 Louisville (Ky.) University	41
31½ Pittsburg (Kans.) State	54½
56 Indiana State (Terre Haute)	29
57 Westminster	27
418½	352½

Two new MSM records were set during the season. James Phillips now

holds the 200 yard backstroke record with a time of 2:28.5 minutes. And the relay team of Roy B. Smith, Richard Greeley, Gary Broyles and John Woodward set a new time of 3:47.9 for the 400 yard Free-style Relay.

Gary Broyles held the honor for the most points scored in the nine meets. He had a total of 80.

The swimming team competed in an 18 team meet sponsored by the A. A. U. at the Y. M. H. A. in St. Louis and placed third. The relay team made the best time in the 400 yard free-style event but was disqualified in the finish.

In the M. I. A. A. indoor track meet held at Columbia, the Miners placed last in the ratings but there was less than four points difference in the three of the six teams participating. The totals were: Kirksville, 84½; Cape Girardeau, 29½; Warrensburg, 23½; Springfield 16 1/6; Maryville, 14 5/6; MSM 12½.

The outdoor M. I. A. A. contests in track and field, tennis and golf will be held in Rolla on May 8 and 9.

Student S. A. M. E. Post Has Guest Speaker

The MSM Student Post of the Society of American Military Engineers had as guest speaker at its March meeting, Lt. Col. Russell J. Wilson, Executive Officer, U. S. Army Engineer District, St. Louis, Missouri. Col. Wilson spoke on the "Activities of the U. S. Army Engineer District, St. Louis."

The MSM Student Post is headed by Cadet Don Pfautsch, of Sullivan, Mo., and it has an active membership of 63. In furtherance of the S. A. M. E. objective of "advancing knowledge of the science of military engineering" outstanding speakers are invited to address the group every second month.

New ROTC Brigadier General Is Announced

Colonel Lloyd L. Rall, PMST at MSM has announced that Robert R. Wright, of Springfield, Mo., Class of '59, is the third Cadet Brigadier General in the history of the school. Since the spring semester of 1957 the ROTC

MSM Alumnus

has been organized as an Engineer Brigade with two Engineer Combat Groups. This year there are seven battalions in the Brigade. Deputy Brigade Commander is Cadet Colonel Newton L. Wells, Monett, Mo. Commanding the First Engineer Combat Group is Cadet Colonel Lynn A. Rockwell, Belleville, Ill., and Cadet Colonel Donald R. Feaster, Palmyra, Mo., is Commander of the Second Group.

The public is invited to two parades by the entire Brigade at 3:30 p. m., on May 13th and May 20th. The parade on May 13th will be conducted as a part of the Annual Formal Inspection of the ROTC Detachment; and the parade on May 20th will be the Annual Awards Ceremony, at which time awards and decorations earned by outstanding cadets during the year 1958-59 will be presented.

BIRTHS

Mr. and Mrs. L. E. (Gene) Allen, Jr. '56, now have a son, Gregory Dexter, born September 17, 1958. They have a daughter, Laurie Deane, 18 months old. Gene is liaison engineer, Trans World Airlines, MCI Airport, Parkville, Mo. His residence address is 24 Main Court, Liberty, Missouri.

Mr. and Mrs. Ernest R. Achterberg '53 announce the arrival of their first child, Milton Carl, born October 21, 1958, at the Bonne Terre Hospital. The Achterbergs live at 812 Francis, Potosi, Missouri.

Mr. and Mrs. C. K. Hughes, Jr. '51, had an addition to their family September 17, 1958, upon the arrival of Douglas Robert. This now brings the total to four boys and two girls. The father is contract manager, Arrowhead Engineers and Constructors, Duluth, Minnesota. His address is 1244 Missouri Ave.

Mr. and Mrs. Ross F. Crow '51, M. R. No. 9, Beaver, Pa., have a brother for their daughter, Patti Jean, age 2½ years. Ross is assistant departmental foreman in the Styrene plant of the Koppers Co., Inc.

Mr. and Mrs. Joseph D. Crites '49, have another future Miner at their house, making a total of three future engineers: Joseph, Jr., Thomas Allen and John Clarence. The father is Mine Foreman, Republic Mine, Cleveland Cliffs Iron Co., Ishpeming, Michigan. His mailing address is Box 380, Rte. 1, Ishpeming.

Mr. and Mrs. Randall M. McClure '56, were delivered twins, July 19, 1958. And they were given one of each, Michael Max and Linda Lee. They all get their mail at Box 58, Washington, Mississippi.

Mr. and Mrs. W. R. Stimson '55 have a daughter, Alice Ann, born October 28, 1958. This is their second child. Their son Bill is now three years old. Bill, the elder is with the State Highway Department at Hannibal, Mo., address 517 Euclid.

Mr. and Mrs. Irving Klaus '50, had a Christmas Eve present of their third child, Mindy Ellen. Their other two are: Teddy, 4 and Bonnie, 3. Irving has been with Permadent Products Corp. for 4½ years. They manufacture dental porcelain, prefabricated teeth and noble metal alloys. His residence address is 137 Winthrop Road, Nixon, New Jersey.

Mr. and Mrs. Don R. Greenwalt '57, are belatedly but proud to inform alumni about the arrival of Clinton Douglas, last August 24, 1958. Tidewater Oil Company employs the father as a petroleum field engineer out of their Robinson, Illinois, office. Their home is in Robinson also, at 505 N. Clay.

Mr. and Mrs. Ronald R. West '58, on February 21, 1959, became parents of a son, Robert Karl. The Wests live in New Orleans where Ronald is with the Shell Oil Co.

Mr. and Mrs. Marvin E. (Bob) Nevins '41, announce the arrival of Patricia Kay, on February 18, 1959, to join her three sisters and four brothers. Bob is president of the Wisconsin Centrifugal Foundry, Inc., Waukesha, Wisc.

Mr. and Mrs. William A. Schirmer '49, are proud parents of their first child, Aileen Marie, born December 3, 1958.

Mr. and Mrs. Gerald W. Allmon '58, belatedly announce the arrival of their first son, Lynn Erie, January 13, 1959. Gerald is employed as a ceramic engineer for Henderson Clay Products, Henderson, Texas. The home address is 1305 Webb Street, Henderson.

Lt. and Mrs. Morton L. Mullins '56, announce the birth of their second son, Dennis Scott, February 7, 1959, at the Phelps County Memorial Hospital, Rolla. The Mullins' have a daughter,

Kathleen, 3½ years old. Their address is 24D Pulaski, Lieber Heights, Ft. Leonard Wood, Mo.

MARRIAGES

Bruce R. Doe '56, and Miss Nelliva Oleks, formerly of Riga, Latvia, were married March 21, 1958, at Pasadena Presbyterian Church. Bruce has a Kennecott Fellowship in geology at California Institute of Technology while working for a Ph. D. His address is Department of Geology, Cal. Tech., Pasadena, Calif.

Virgil P. Knight '58 and Miss Barbara Shockley, daughter of Mr. and Mrs. Wade Shockley, Springfield, Mo., were married November 22, 1958, at St. Paul Methodist Church, Springfield. Virgil is employed by the Texas Company, Tulsa, Okla.

2nd Lt. John F. Sweeney '58 and Miss Joan Lebesch, of Milwaukee, Wisconsin, were married February 28, 1959. John expects to be transferred to Germany. Before entering the service, John was employed by the Allis-Chalmers Mfg. Co., of Milwaukee.

Ronald F. Vetter '58 and Miss Veronica Ann Lever were married on January 3, 1959, in Long Beach, California. Ronald is with the U. S. Naval Ordnance Test Station, China Lake, California. The newly weds are making their home on the base and have quarters at 806 6th Place.

DEATHS

Daniel W. Blaylock

Daniel W. Blaylock '15, died November 25, 1958, at Bethesda, Maryland. He was chief mining engineer for Madison Coal Corporation for many years. He is survived by his wife, Mary McKinley Blaylock, 7600 Cayuga Ave., Bethesda, Maryland; a son, Daniel, Jr., and two grandsons. Burial was at Marissa, Illinois.

Carl E. Millikan

Carl E. Millikan '22 died suddenly while at his mine in Aguas Calientes, Mexico, January 20, 1959. Mr. Millikan had been in mining work in Mexico since 1922. Burial was in San Luis Potosi, Mexico. He is survived by his wife, Margaret, and two daughters. Mrs. Millikan plans to spend some time with her daughter, Mrs. J. A. Siefkes, 123 North Ford, Anamosa, Iowa, and another daughter who lives in Texas.

Ray E. Hoffman

Ray E. Hoffman '05, retired manager of the Universal Atlas Cement Company's Hannibal plant died February 26, 1959, in Levering Hospital, Hannibal, Mo. He had been vacationing in Florida and returned to Hannibal the week of his death. He was born in Knoxville, Iowa, November 27, 1881. He became assistant mining engineer of the cement company's Hannibal plant in 1906. In 1908 he became engineer of mines and quarries and assistant plant manager in 1911. And in 1919, he was named plant manager, in which capacity he served until his retirement in 1946.

Mr. Hoffman was deeply interested in youth programs and it was his request that memorials other than flowers be made to Boys Town of Missouri at St. James, Missouri. He was very active in civic and church affairs. His wife, Katherine, died June 4, 1958.

He is survived by a daughter, Mrs. Albert W. Happy, Jr., Jefferson City, Mo.; three sons, Richard H. Hoffman '36, San Luis Obispo, Calif., Ray E. Hoffman, Jr. '39, Bethel Park, Pa., and James B. Hoffman, Norfolk, Nebr.; eight grandchildren and one brother, John Hoffman of New York, N. Y.

Don H. Morgan

Don H. Morgan '16, age 67, widely known community consultant of the University of Illinois Bureau of Community Planning, died November 23, 1958, at the home of his daughter, Mrs. C. S. Lewis in Crown Point, Indiana. He had been with the University since 1938. Professor Morgan was a native of St. Louis, Mo., area and was born at Memphis, Missouri. He was a civil engineer with the Frisco Railroad from 1916 to 1926, with a two-year interruption to serve in World War I. From 1926 to 1933, he was with the St. Louis City Plan Commission, and 1933 to 1935 the St. Louis Regional Plan Association. He spent a year with the U. S. Department of Interior, National Park Service and joined the well-known planning organization of Harland Bartholomew and Associates of St. Louis. In 1939, he went to the University of Illinois and was active until two years ago when ill health forced him to take a leave of absence. He leaves his wife, Pearl, his daughter, Mrs. Betty Jane Lewis; a son, Don; four grandchildren; and a brother, Earl B. Morgan, Bryn Mawr, Pa.

Alumni Personals

1912

Paul E. Coaske, in the last issue of the MSM ALUMNUS, was listed as co-owner of Superior Products Co., Los Angeles, California. There is no co-owner. Paul is the owner of the company. Sorry and hope this will rectify our error.

1914

Dr. Mervin J. Kelly has retired as Chairman of the Board, Bell Telephone Laboratories, effective March 1, and has gone to Spain and Portugal for a two-month holiday.

1918

Raul Chaves, 4708 Juarez Ave., Chihuahua, Chih., Mexico, has practically retired from business. He has two sons who are taking care of his properties under his supervision when necessary.

1923

Barbour H. Moore has a change of address, 4343 Pawn Panini, Honolulu, Hawaii.

Harry S. Pence was in Mexico in February on a business trip combined with a short respite at Acapulco which he and his good wife Bid found very enjoyable.

Howard C. Fleck is also in Honolulu, Hawaii. His address there is 1025 Hoomaikai St.

1928

Charles Freeman has been named Manager, Western Division, Harbison-Walker Refractories with headquarters in San Francisco, California. He will change his residence from Canon City, Colorado, to San Francisco in the near future.

1929

Joe Williamson, Jr., is owner and principal engineer of Williamson and Associates, 6731 Manchester, St. Louis, Mo. From 1929 to 1938, he was in the midwestern states, and Vice President of Russell and Axon. Then, he was in charge of a consulting engineer office in Florida until 1951 when he organized his present company.

John H. Hahn's new address is, in care of Harry Young, Sheridan, Missouri.

1930

Ren Beatty, of Union Electric, St. Louis, Mo., has been promoted from meter and relay engineer to system relay engineer and will be in charge of the Relay Division. Beatty was em-

ployed in 1925 as an apprentice in Electrical Engineering, transferred to Power Plants Dep't in 1931. He became station meter tester in 1941. After his return from three years of military service, he worked as senior assistant meter engineer until 1952.

1931

W. R. Towse is president of the Connecticut Fire Brick Co., 220 Reservoir Ave., Bridgeport, Conn.

Clyde E. Wilhite is construction engineer with Headquarters, Air Defense Command, Colorado Springs, Colorado.

1933

Walter H. Braun is chief metallurgist, Stainless and Strip Div., Jones and Laughlin Steel Corp., Detroit, Mich., with residence at 1602 Edgewood Drive, Royal Oak, Mich.

Warwick L. and Ellen W. Doll are in Charleston, West Virginia, residing at 814 Beech Ave., where Warwick is district engineer, U. S. Geological Survey. Their two daughters are married. Elnor is Mrs. Don C. Elkins; they were married December 22, 1957. Nancy, is now Mrs. Charles T. Brooks, whose wedding was November 22, 1958.

Colonel Charles R. Rosenbaum has returned to Ft. Leonard Wood, Mo., to assume duties of executive officer of the 18th Engineer Brigade. This is the Colonel's third tour of duty at Ft. Wood. The others being in 1941-42 and 1952-56. He and his wife, Elinore, have quarters on the post.

David Cutler is president of Cutler Electrical Products which manufactures and installs neon signs and cold cathode lighting in a 500-mile radius of Philadelphia, Pa. His company is located at 5524 Haverford Ave., Philadelphia.

1934

O. M. Duncan is with the Indiana Farm Bureau Refinery, Mt. Vernon, Ind. The Duncans are proud grandparents of their year-old granddaughter, May Ann Duncan, Tampa, Florida. Two more of their children are planning to marry this summer.

J. E. Gaston, 2323 Wicklyn Road, Lancaster, Pa., is General Manager, Building Materials Research, Armstrong Cork Company's Research and Development Center. Jack was with Eagle-Picher's research laboratory from 1934 to 1942 and then joined Armstrong. He is a member of ASTM and Building Res. Institute of National Academy of Science and he is also listed in "American Men of Science."

MSM Alumnus

MSM ALUMNI PERSONALS

The Gastons have five children. Mrs. Gaston is the former Mildred Breaseale.

1935

Fred W. Klee's address is P. O. Box 24132, Los Angeles 24, Calif.

1936

John P. Rasor is secretary-treasurer of Tinker and Rasor, P. O. Box 281, San Gabriel, Calif.

1938

H. W. Kuhlman is with the Battelle Memorial Institute, Columbus, Ohio.

Frank N. Goodrich is in Taft, California, employed by the Southern California Gas Company.

1939

Edgar F. Pohlmann has been appointed as project engineer for the St. Louis Flood Protection Project for the U. S. Army Corps of Engineers. The project was started the last week in February and an office was established at the foot of Ferry Street at the Naval Reserve Training Center. Pohlmann was resident engineer on the construction of the Military Personnel Records Center in St. Louis County.

Glenn E. Brand is with Atomics International, Canoga Park, California. His mailing address is Box 657, Thousand Oaks, California. Glenn was formerly a professor in Chemical Engineering at MSM.

John Hall Livingston, Box 1-A, McDade, Louisiana, is Engineer, USAF, Hq 2AF, Barksdale AFB. John reports that he has three grandchildren and he is still living with wife No. 1.

James W. Aittama's address is in care of Snap-On-Tools, Inc., Kenosha, Wisconsin.

John Long has joined the Meramec Mining Company, Pea Ridge, Mo. He resides at 216 W. Burton, Potosi, Mo.

1940

R. J. Followill is with the U. S. Army Aviation Board, Ft. Rucker, Alabama, testing airplanes, helicopters and associated equipment for the Army. His address is 209 Forest, Enterprise, Alabama.

Carlos H. Plenge is doing consulting work and has an ore dressing, chemical and assaying laboratory in Lima, Peru. He is active in the mining industry but finds time to manage the Bardee Rum Company, Peru's finest rum. Carlos states that rum and mining go together in the Andes, and needless to say the company is looking for good distribut-

ors. His address is Jiron Lima 586, Lima, Peru.

Everett W. Sharp is Manager, Lawrence Refractories Clay Co., Pedro, Ohio, producers of fire clay and lining materials for foundries and steel mills. Everett lives about a mile from the plant, in the beautiful hills of Southern Ohio in country very similar to the Ozarks. The Sharps have four children.

1941

George M. Pace is a civil engineer with the Corps of Engineers Laboratory, Cincinnati, Ohio, and he is also a private surveyor. He resides at 7083 Paddison Rd., Cincinnati 30.

1942

Edward Chernoff is with General Motors and residing at 6801 Pritchard Place, New Orleans 25, La.

A. G. Adler has a new address: c/o Moa Bay Mining Co., Apartado 613, Santiago, Oriente, Cuba. He was formerly at Chalmette, Louisiana.

Robert A. Pohl's change of address is 1305 Kelly Terrace, Anniston, Alabama.

Austin E. Schuman has accepted a position as research mathematician at Cape Canaveral, Florida. For the past nine years he has been engineer for methods at the International Shoe Co., St. Louis, Mo.

1943

James R. Paul has had a promotion to district operations manager with Dowell, a division of Dow Chemical Co., and has moved into a new office in Evansville, Ind., from Carmi, Ill. Address 1918 Hwy. 41 North, Evansville.

N. R. Underhill is vice-president and partner, Bennett Supply Co., St. Louis, Mo. The Underhills have five children. The fifth was born July 18, 1958. Their residence address is 75 Hafford Woods, Richmond Heights 17, Mo.

E. Gent Johannes, 3510 Pin Oak, St. Louis 25, Mo., has been elected president of Mineral Products Co., 1834 Gravois, St. Louis, Mo.

John H. Doerres, who is with the Butler Manufacturing Company, has been transferred from Kansas City, Mo., to Wausau, Wisconsin, and his address is 917 Graves.

Ira Perkins, chemical engineer, Pacific Mercury Electronics, Joplin, Mo., has just completed and moved into a new home at 520 W. 34th St., and invites any old compatriots to stop in as they come to or pass by Joplin.

Matthew J. Kerper who is with the National Bureau of Standards, collaborated with two others in producing a technical report on "Determining Mechanical Properties of Brittle Cermets" at the request of the Army Watertown Arsenal, because of present uncertainty preventing the successful application of cermets in rockets and missiles.

1944

Richard F. Piasecki has been made Assistant Branch Manager of the Propulsion Wind Tunnel Test Facility of the Arnold Engineering Development Center at Tullahoma, Tennessee. He is employed by ARO, Inc., a subsidiary of Sverdrup & Parcel of St. Louis, Mo. ARO is the Contract Operator of this Test Center for the U. S. Air Force's Research and Development Command.

K. W. Schoeneberg has accepted the position of Chief Engineer with the Akron, Canton and Youngstown Railroad Company, at Akron, Ohio. Ken was formerly with the Frisco Railroad as division engineer with headquarters at Ft. Smith, Arkansas.

Ernest J. Massard is also in Ohio with residence at 651 Cedarwood Rd., Willoughby, O. He is Manager, Technical Data and Information, Thompson-Ramo-Woolridge, Cleveland.

John L. Krall, Rt. 2, Liberty, Mo., is with Sylvania Products, Inc., Kansas City, Kansas. The Kralls have three girls: Janet, 8, Jane, 6, and Judy, 2 years.

Philip M. Dampf who is with American Zinc Co. of Illinois, is living at 8761 Del Vista, St. Louis 26, Missouri.

1946

Lt. Col. W. F. Wickizer, USAF Reserve, consulting engineer, 1827 S. Stewart St., Springfield, Mo., was on active duty February 9 to 22, attending the National Defense Resources Conference in Springfield.

1948

Elmer R. Broadbent is Chief Design Engineer for Pontiac Eastern Corp., Purvis, Mississippi, residing on RFD No. 2, Purvis.

Robert M. Rock is a member of the Chicago District, Corps of Engineers, U. S. Army Military Construction Division, which is erecting Nike sites around St. Louis, Mo., area. Jim McGrath '49 is the contract engineer on the project. Bob's St. Louis address is 5133 Waterman.

John Griessen was on the ORMET

Alumina Plant project in Barnside, Louisiana, for F. H. McGraw & Co., as project engineer. After its completion he was moved to the sales department and is seeking engineering and construction contracts. His residence is at 33 Davenport, New Rochelle, N. Y.

1949

Ray N. Steckenrider has been promoted to advisory engineer in the Data Communications Development Department of the IBM Product Development Laboratory at Poughkeepsie, N. Y. In his new position, Mr. Steckenrider is coordinating the development of a data processing converter unit. Ray joined IBM in 1949 as a customer engineer in St. Louis, Mo. In 1950 he was transferred to the Education Department in Endicott as a customer engineer instructor. In 1951 he was made a design engineer in Poughkeepsie and promoted to associate engineer in 1955 and advanced to staff engineer in 1956. Mr. and Mrs. Steckenrider, who reside at Sheaf Road, Wappingers Falls, N. Y., are parents of three children.

Jack Trotter is the Jefferson County (Ill.) Superintendent of Highways and resides at 718 Magnolia, Mt. Vernon, Ill. There are four children in the Trotter family: Nancy 10, Susan 7, John 4 and Sam Joe 3. Jack was in the hospital when we had word about him. We hope he had a speedy recovery.

Edward L. AuBuchon joined Sundstrand Aviation, Inc., and his address now is 4407 Eastridge Drive, Rockford, Ill.

T. S. Liu is with the Southwest Research Institute, San Antonio, Texas.

Leonard F. Kane, 1305 Kornblum Ave., Torrance, California, is employed by the Norair Div., of Northrop Corp., in Hawthorne, Calif.

William R. Chew is production supervisor, Owens Illinois Glass Co., St. Charles, Illinois, and his residence address is 231 N. Batavia Ave., Batavia, Ill.

Roy E. Copeland is now in Niagara Falls, New York. His address is Channel Construction, P. O. Box 331.

1950

Ernest Fields has been transferred to St. Louis from Kansas City, Missouri and travels eastern Missouri and Illinois for W. S. Dickey Clay Mfg. Co., as engineering representative—liaison work with engineers—assistance to con-

tractors using new plastic coupling. His St. Louis address is 4443 Taft Ave.

Harvey I. Phillips, Jr., has been with McDonnell Aircraft Corp., St. Louis, Mo., for eight years as a Senior Electronic Systems Engineer. Harvey is married and has a son, 1 year old. His residence is 6830 Woodhurst, Berkeley 21, Mo.

O. A. Jorcke is a sales engineer in the Machine Tool Division of Colcord-Wright Machinery & Supply Co., St. Louis, Missouri. He has been with this company since graduation. His address is 9513 Diana Avenue, Affton 23, Missouri.

Wallace C. Stone has been appointed to the Military Division of IBM as development engineer in quality control at the division's plant in Kingston, N. Y. Wallace joined IBM as a technical adviser in 1952 and was named manager of IBM Kingston receiving inspection in 1954. Following assignments as manager of assembly quality control and calibration, he was named staff engineer in quality administration. Mr. Stone, his wife, Regina, and children, Rebecca 6, and Rex, 4, reside at 12 Staples St., Kingston.

Bob Presnell is with the Batelle Memorial Institute, Columbus, Ohio. His residence address is 292 Old Village Road, Columbus 4.

John J. Sakony is employed by J. Livingston & Co., Chicago, Ill., and his Chicago address is 7013 Jeffery Blvd.

Frank Bailey is District Manager, Sheffield Division, Armco Steel Corp., Salt Lake City, Utah, with residence at 2333 Olympus Drive.

Sid Duerr is chief engineer, Coloma Oil & Gas Corp., Corpus Christi, Texas. Sid and Joan have three little ones: Christy, seven years, Stevie, age 5, and Mike, 2 years, all living at 3914 Lamont, Corpus Christi.

Vernon S. Severtson is Board Plant Superintendent, U. S. Gypsum Co., Sweetwater, Texas. Address 1717 Rose Ave.

Frank Soukop is foundry sales engineer for the Bullard Company, Bridgeport, Connecticut. Frank and Betty's three children are: Betty, Donnie and Barbara Jean. Their address is 113 Division Ave., Shelton, Conn.

Joseph H. Gaddy has been transferred to the Bureau of Indian Affairs Area Branch of Plant Management as

mechanical engineer and is now residing at 301 A. Mollica Dr., Gallup, New Mexico.

Karl K. Breit is now living at 1457 Bryant Lane, Meadowbrook, Pa.

L. Murray Pipkin, Jr., 1701 South College St., Springfield, Ill., is with the State of Illinois, Division of Waterways.

Ralph E. Wolfram is with the Bank Building and Equipment, St. Louis, Mo., with residence at 2221 Kipp Court, St. Louis 21.

Robert W. Buel is assigned in Jefferson City, Mo., with Standard Oil Co., and his address is 10 Taylor Drive, R. R. 4, Jefferson City.

Roy E. Hall, formerly of Ithaca, N. Y., is now on the West Coast and his address is 900 N. Magnolia St., Anaheim, California.

J. C. Kennedy's new address is Sunset Trailer Park, Idaho Falls, Idaho.

Ivan L. Bounds has moved from Ft. Smith, Arkansas, to Denison, Texas. His mailing address is P. O. Box 282.

1951

George R. Donaldson went to Caracas, Venezuela, with the Venezuelan Atlantic Refining Co., in August, 1958, as senior petroleum engineer. His mailing address is Apartado 893.

E. S. Middour recently organized the South Texas Stratigraphic Service, 313 Wilson Building, Corpus Christi, Texas. The new organization will serve the petroleum industry by furnishing monthly drilling logs of wells on the Cretaceous trend of South Texas, as well as information on Paleozoic and Tertiary exploration in the area. Mr. Middour previously was research stratigrapher with the Atlantic Refining Company, Corpus Christi.

Roy G. Woodle, Jr., is Project Aerophysics Engineer with Convair, Ft. Worth, Texas. Address is 3145 Hillside Rd.

Richard E. Mansfield, 27105 Shorewood Road, Rolling Hills, California, is with Douglas Aircraft Company, Santa Monica.

Robert H. Seip, Jr., is with the New Jersey Zinc Co., Center Valley, Pa. Bob is married and the Seips have two children, Rebecca, age 3, and Robert, one year.

Ross R. Plainse is employed as a civil engineer for the Fox River Field Office, U. S. Corps of Engineers and he resides at 1112 East Frances St., Appleton, Wisc.

John J. Raffone is now with Bell Telephone Laboratories in their technical public relations group, 463 West Street, New York 14, N. Y. John was formerly with General Electric Company in a similar position.

Gene R. Blendermann is with Creole Petroleum Corp., and his address is in care of Creole Petroleum Corp., Quiriquire—Pet. Eng. Apartado 3088, Maturin—Edo. Monagas, Venezuela, S. A.

Robert I. Zane is now in Mission, Kansas, address 3016 W. 57 Terrace.

Jack Langenbach is with Beckman Instruments, Inc., Fullerton, California. His address is 242 Helitrope, Corona Del Mar, Calif.

Phillip G. Pigott, Box 345, Norris, Tennessee, is with the U. S. Bureau of Mines.

James Salmas is in the Northwest and his address is 3400 37th Ave., S. W., Seattle 6, Wash.

Irving Dulberg is with the J. H. France Refractories Co., Snow Shoe, Pa.

Donald D. Montgomery has moved from Burlington, Ontario, Canada, to Covina, California, and living at 860 N. Calvadas.

1952

L. K. Wheelock has been elected executive secretary of the Engineering Manpower Commission of the Engineers Joint Council, 29 West 39th St., New York 18, N. Y.

Don D. Matson, 3219 W. Ohio, Midland, Texas, district geophysicist, Midwest Oil Corp., was recently elected Secretary of the Permian Basin Geophysical Society.

George E. Fish was recently promoted to Division Development Geologist for the Texas Producing Division of the Pure Oil Company. He is living in Ft. Worth, Texas, 3560 Wedgway Drive.

Willard E. Cox is now Assistant Professor of Geological Engineering, Montana School of Mines, Butte, Montana.

Lee Bilheimer, 919 Michigan, Farmington, Mo., formerly with Newmont Exploration, Ltd., is now in the Mine Research Dept., St. Joseph Lead Co., Bonne Terre, Mo.

J. F. Bruskotter, an exploration engineer with the Shell Oil Co., is located in Centralia, Ill. John and Jo Anne have four children: Johnny, Judy, Jan and Jill. Their residence address is 1327 S. Lincoln, Centralia.

Wayne J. Jackson invites other

alumni in Venezuela to come-a-visiting. Wayne is located in Puerto Ordaz, Venezuela, and is a mining engineer with Orinoco Mining Company.

Wallace H. Holmes, 241 Arrowhead, Park Forest, Illinois, is employed by the Bureau of Engineering, City of Chicago.

R. C. Cooper is in Dallas, Texas, with Westinghouse Electric Corp. His address there is 1232 Fidelity Union Life Building.

James A. Van Bebber has made a significant contribution to the U. S. Army's successful space probe. This historic probe into outer space was conducted by elements of the Army Ordnance Missile Command, Huntsville, Ala., at the direction of the National Aeronautics and Space Administration. It is a part of the U. S. International Geophysical Year research program. James is an Aeronautical Research Engineer in the Missile Agency's Structure and Mechanics Laboratory where he assisted in the stress analysis of the booster section of the space vehicle.

Duane A. Crawford received his Master's degree in Petroleum and Natural Gas Engineering at The Pennsylvania State University at the January Commencement.

Theodore E. Dobson is in Anchorage, Alaska, with Halhouty Alaska Oil Company. Their offices are located at 210 1st National Bank Bldg.

Eugene M. Laytham, structural engineer for the Mo. Pac. R. R., is residing at 8925 Litzsinger Road, St. Louis, Mo.

Herbert E. Miller is with Tennessee Coal & Iron Co., Bessemer, Alabama.

1953

Henry M. Cole is with Black and Veatch, consulting engineers, Kansas City, Missouri, and his address now is 102 E. Hadley, Aurora, Missouri.

1954

Vernon D. "Pee Wee" Volker, for-

merly with the Texas Company, at Hays, Kansas, is now located at Pawhuska, Oklahoma, with Sunray Mid-Continent Oil Co. His address there is 1421 Leahy.

Anthony J. Selvaggi is manufacturing engineer, Tungsten, Chemical and Wire Section, Parts Dept., Lamp Div., Westinghouse Electric Corp., Bloomfield, N. J. He is attending Stevens Institute—Graduate School—for a M. S. in Metallurgy. His address is 228 N. 3rd St., Newark 7, N. J.

Joseph S. Watkins is with Sundstrand Turbo, Denver, Colorado. Residence address is 445 Dewey, Boulder, Colorado.

Charles D. Gephart is in Holly Springs, Mississippi, with the Holly Springs Brick & Tile Co.

1955

Sam Smart has been in Nynashamm, Sweden, since October, 1958, for the starting of the platformer and unifying units at Nynas Petroleum Refinery and expects to be there until early summer. Sam is with the Universal Oil Products Co., Des Plaines, Ill.

Henrique D. Frenkel was elected president of Negros de Humo Venezolanos C. A., a Venezuelan carbon black company. His address is P. O. B. 5463, Caracas, Venezuela.

Thomas V. Bruns is with Dow Chemical Co., as Sales Engineer. Mrs. Bruns is the former Virginia McBride and they have a 10 months old son, Mack. They are living in Denver, Colorado, 1675 S. King.

Charles A. Hahs is in Bonne Terre, Mo., with the St. Joseph Lead Co. Their two boys are one and three years old.

Laszlo F. Zala is an electrical engineer with the H. K. Ferguson Co., Cleveland, Ohio. Their address there is 11907 Buckingham Ave. The Zalas' two girls are Marianna, one year; and Judith, two plus.

HELP US KEEP YOUR ADDRESS CURRENT

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

Name

My new address is

Richard B. Leisure is a student at Sorbonne, University of Paris, Paris, France. He may return to the States in October 1959. His address is RBL Room 201, Fondation des Etats, Unis. 15 Blvd. Jourdan, Paris 14, eme, France.

John R. Van Buskirk, 205 E. Nectarine St., Oxnard, California, is employed at the Naval Missile Center, Pt. Mugu, Calif., in the test and evaluation section of the guided missile program. The Van Buskirks have one son, David, thus far, who is 19 months old.

Charles B. Germer is with Alpha Portland Cement Co., and resides at 8805 Manda Lane, Crestwood 26, Mo.

Oris G. Lansford is in Bartlesville, Oklahoma, with Phillips Petroleum Co., and his address is 1913 S. Santa Fe.

Richard E. Johnson's address now is 1271 Goodwin Rd., N. E., Atlanta, Ga.

1956

Herbert F. Ogle has a change of address, 1400 S. Houston St., Athens, Alabama.

Louis L. LeBrun's address is 11720 S. Vermont, Los Angeles, California.

Paul E. Ohlsen is with North American Aviation, International Airport, Los Angeles, Calif., and is living at 13604 S. Daphne Ave., Gardena, Calif.

1957

Frank Henninger is assistant project engineer for the Kearfott Co., Clifton, N. J. Frank, his wife Dorothy and daughter, Laurie Jeanne, live at 134 Uhland St., East Rutherford, N. J.

Theodore L. Jennings is Company Commander, Co. "B," 2nd Bn 1st TRE, Ft. Leonard Wood, Mo. His residence address is 71 Pulaski, Lieber Heights, Ft. Leonard Wood.

Robert G. Nutter has a new position, Research Engineer for the Lamb Electric Co., Kent, Ohio. The company is manufacturer of fractional horsepower motors. Bob's address is 1057 Dover, Akron 20, Ohio. The Nutters are also proud of the new addition to their family, Catherine Ann, born January 24, 1959. This is number four for the Nutters.

Robert J. Fahrig is in Whiting, Indiana, 2012 Westpark Ave., and is with Standard Oil Co. of Indiana as a Chemical Engineer in the technical service department. Bob is married. Mrs. Fahrig is the former Josiane S. Ledru and they have a son, Michael Robert, born March 19, 1958.

Paul D. Gerlach is working at Convoir, Ft. Worth, Texas, as a technical representative for Emerson Electric Co., St. Louis, Mo. His Ft. Worth address is 745 Lynda Drive.

Charles R. Weldy has a change of address: 7414 Forest View Dr., St. Louis 21, Mo.

James B. Lorenz is employed by Black and Veatch, consulting engineers, Kansas City, Mo. His residential address is 11215 W. 67th Terrace, Shawnee Village, Kansas.

Kermit Kreder is now out of the Army and he and his wife and son, Steven, are making their home at 2620 San Mateo Ave., Richmond, California. Kermit is with American-Standard Co.

John A. Honsberger is presently employed as a ventilation engineer at Pamour Porcupine Mines, Ltd., Pamour, Ontario, Canada. Pamour is a gold mine producing 1800 tons of ore per day. John recently attended the Eighth Annual Ventilation Conference in Lansing, Michigan.

Dale Schrupf is married. Mrs. Schrupf is the former Jan Koeneke. Dale served six months in the Signal Corps at Fort Monmouth, N. J., three months of which was teaching in the microwave school. He is now located in San Jose, California and is an electrical engineer in Sylvania's Microwave Laboratory. His address is 2130 Park St., San Jose.

Donn G. Ziebell has been promoted to finishing metallurgist for the Kaiser Halethorpe Extrusion Plant, Halethorpe, Maryland. The Ziebells have a new home at 116 Glenrae Drive, Baltimore 28.

B. W. Franklin is employed by the Caterpillar Tractor Co., Peoria, Ill., as a research engineer in the Caterpillar Research Dept., Proving Ground Div. Jennie Nadine Franklin, the Franklin's third child, arrived February 1, 1958. Their address is 2624 Renwood, Peoria.

Jack E. Toliver is a 1st Lt., U. S. Army, assigned to the 1st Engr. Bn., Ft. Riley, Kansas. He has been on active duty since July 1957. Jack, his wife Joan and son, Jeffrey, live at 555-2 Whitside, Ft. Riley, Kansas.

William D. Russell, 830 Lyman Ave., Oak Park, Ill., is with the Zenith Radio Corporation in Chicago.

John R. Jackson who received a B. S. degree in Mechanical Engineering is at MSM working on requirements for a B. S. in Civil Engineering. His Rolla address is 938 W. 10th.

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K. R. Withrow is on active duty at Ft. Belvoir, Va.

Carl Herren is with the Sho-Me Power Corporation, Marshfield, Mo., C. E. Boulson '39, is General Manager of this power corporation.

Gerald L. Wright is with the Bureau of Reclamation at Kanab, Utah.

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Valgene E. Hart has been employed by the University of California's Los Alamos Scientific Laboratory as an engineer in the GM X Division. Valgene placed in the Mechanics Award Section of the Welded Bridge Design Competition held by the Jas. F. Lincoln Arc Welding Foundation, Cleveland, Ohio.

James Weimholt and James Yates have been appointed on a research and development team at the U. S. Naval Ordnance Test Station, China Lake, California.

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