THE GEAR of Theta Tau

FALL 1948



The GFAR of THETA TAIL



FALL. 1948

Theta Tau Fraternity

Founded at the University of Minnesota October 15, 1904 FOUNDERS

ISAAC B. HANKS FRICH I. SCHRADER ELWIN L. VINAL W. MURRAY LEWIS

EXECUTIVE COUNCIL. . . Grand Regent R W NUSSER Zeta '28 5227 Brookwood Avenue, Kansas City, Mo. N. B. AMES, Gamma Beta '17 Grand Vice-Regent 8 Westwood Drive, Washington 16, D. C.

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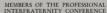
Grand Outer Guard 1911 Lake Street, Salt Lake City 5, Utah

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THE GEAR OF THETA TAU P. L. MERCER, Omicron '21 and J. W. Howe, Omicron '24 . . . Editors Engineering Building, Iowa City, Iowa

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Chapters

ALPHA, Founded October 15, 1904 - - - University of Minnesota (Chapter house) 324 Walnut St., S. E., Minneapolis, Minn. BETA, Established March 26, 1906 - Michigan College of Mining and Tech. (Chapter house) 1405 College Ave., Houghton, Michigan

GAMMA, Established November 8, 1907 - - - Colorado School of Mines c/o Dean M. I. Signer, Colo. School of Mines, Golden, Colo.

c/o Dean M. I. Signer, Colo. School of Mines, Golden, Colo.

DELTA, Established May 23, 1911 - - - Case Institute of Technology

Theta Tau Box, Case Institute of Technology, Cleveland, Ohio

EPSILON, Established May 4, 1911 - - - University of California Theta Tau Box, Hearst Mining Bldg., Univ. of Calif., Berkelev. Calif.

ZETA, Established April 17, 1912 - - - - University of Kansas (Chapter house) 1602 Louisiana Street. Lawrence, Kansas

(Chapter house) 1602 Louisiana Street, Lawrence, Kansas THETA, Established May 26, 1914 - - - Columbia University c/o Prof. Nelson S. Fisk, Col. of Eng., Columbia University, New York City

C/O Frot. Nelson S. Fisk, Col. of Eng., Columbia University, New York City

Iora, Established February 5, 1916 - Missouri School of Mines

C/O Prof. J. B. Butler, Missouri School of Mines, Rolla, Mo.

LAMBDA, Established April 29, 1920 - University of Utah

LAMBDA, Established April 29, 1920 - - University of Utah c/o George W. Carter, College of Engineering, Univ. of Utah, Salt Lake City Mu, Established January 3, 1922 - - - University of Alabama

P. O. Box 2043, University, Alabama Nu, Established January 1, 1922 - - Carnegie Institute of Technology

P. O. Box 114, Carnegie Institute of Technology, Pittsburgh, Pa. XI, Established January 13,1923

c/o Dr. G. A. Kohlich, 9 Hydraulics Laboratory, Univ. of Wis, Madison, Wisomis, OMICRON, Established February 3, 1923

State University of Iowa Box 44. Iowa Memorial Union, Iowa City, Iowa

Pt, Established May 26, 1923 - University of Virginia c/o Prof. Lawrence R. Quarles, College of Engineering, University, Virginia Rtto, Established February 16, 1924 - N. C. State College of Ag. and Eng. c/o Prof. T. C. Brown, M.E. Dept., N. C. State College, Raleigh, N. C.

c/o Prof. T. C. Brown, M.E. Dept., N. C. State College, Raleigh, N. C. Sigma, Establisbed November 29, 1924 - - - Ohio State University (Chapter House) 47 East 16th Avenue, Columbus, Ohio

TAU, Established December 12, 1925 - Syracuse University c/o Prof. D. E. Stearns, Col. of Applied Science, Syracuse Univ., Syracuse, N. Y. UPSILON, Established April 7, 1928 - University of Arkansas (Chapter house) 213 N. Church St., Fayetteville, Arkansas

Prii, Established April 21, 1928

Chapter house) 416 North Chauncey, West Lafayette, Indiana
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Theta Tau Box, Engineering Bldg., University of Arizona, Tucson, Ariz.

Pst, Established May 7, 1932 - - - - Montana School of Mines
Theta Tau Fraternity, Care of Montana School of Mines, Butte, Montana
OMEGA, Established March 26, 1932 - - - S. Dakota School of Mines
(Chapter house) 107 Kansas City St., Rapid City, S. Dak.

GAMMA BETA, Established March 16, 1935 - George Washington University c/o Prof. N. B. Ames, George Washington University, Washington, D. C. Delta Beta, Established May 20, 1939 - - University of Louisville (Chapter house) 2022 S. First St., Louisville, Ky.

Seventeenth Biennial Convention

December 29-30-31, 1948

KNICKERBOCKER HOTEL 163 E. Walton Street CHICAGO, ILLINOIS

Convention opens at 9:00 A.M. on the 29th and adjourns at

12:00 Noon on the 31st.

All actives and alumni in the Chicago area are urged to attend any or all of the sessions.

National Resource Problems In Japan

Abstracted from a paper presented to the 18th Session, International Geological Congress, London, England, August 1948.

Lieutenant Colonel Hubert G. Schenck, Epsilon '22, Chief, Natural Resources Section, General Headquarters Supreme Commander for the Allied Powers, Tokyo, Japan

If the tragedy of a war only compounds the tragedies of its causes, nothing can obscure its waste. If hostilities cannot settle most of the issuewhich brought these hostilities into being, and if the greater portion of the conflicts and frustrations which bred the initial violence remain unaffected or even aggravated after the war has come to an end, then the terms of the victory are inevitably revoked and the peace becomes a temporary truce.

In Japan, the outcome of the Pacific war has given the Allied Powers the opportunity to direct all of their wisdom and good will to mitigate the tragedies of its causes. Seen from this perspective, the work of the occupatioal forces has an historical significance of the first magnitude. What is being done in Japan to build a good society, economically, socially and politically, may, if it is successful, serve to justify the efforts and sacrifices of millions of people fighting this part of World War II. If it is a failure, it will serve as a new focus for all those forces of unrest and discontent which caused the Pacific War.

Japan's complex economy is closely geared to her natural resources, and some of the most intricate problems of the occupation have involved the technology of their use. Her oligarchic social structure derived much of its strength from hereditary ownerfold concentrated in relatively few hands of the natural wealth of the land and the sea, and sweeping reforms in the rights of these resources have had to be made. Work in this direction began early in September 1945, only three weeks after General of the Army Donelas MacArthur was designated Supreme Commander for the Allied Powers, On October 2, 1945, the Natural Resources Section was established as a special staff section of General Headquarters to advise and inform him on policies and activities pertaining to agriculture, fisheries, forestry, and mining (including geology and hydrology) in Japan.

The scientists at work on this project have been drawn from the ranks of the Army, the Navy, and other governmental agencies, from academic and research institutions, and from private industry. Their duties include arranging for and co-ordinating surveys and reports in the pertinent fields: locating and arranging to obrain source data in Japan relative to nertinent activities in countries formerly occupied by Japan; recommending measures to insure the development, exploitation, production, processing, and distribution of the basic industry products to the extent required for rehabilitation of the national economy within the terms of the Potsdam Declaration and to meet the needs of the occupation forces; and making recommendations relative to the conservation of natural resources and the operation or nonoperation of basic industries and of

Because of the disintegration of the Japanese economy resulting from the war it was first necessary to make immediate provision for a subsistence level of food, to provide minimum quantities of fuel and minerals, and to accelerate production of building materials. Thus, short range problems of increasing food production by adequate production and distribution of fertilizer, by reclamation for agricultural purposes of unused arable land, and by supervision of crop collections, were the first agricultural problems. The urgent needs of the fisheries were primarily vessels, nets, cordage, and fuel. So far as the forests and the mineral resources were concerned, the primary problem was to increase fuel production and to obtain as much lumber for rebuilding as was consistent with future productivity of the forests. Maximizing indigenous production of Nippon's natural resources remains the project of highest priority.

Some of the resources are renewable if properly managed, Accordingly, the sequest to these immediate problems were the problems of sustained yields. Consideration has been given to agricultural research and dissemination or its results, to research on fish population management, to reforevation and erosion control, and to improvements in technology of use of wood products. Finally, the Japanese have encouraged to begin planning on a national scale for the development and use of third natural resources.

While the problems dealing with mineral resources are not identical with those of the renewable resources, they follow similar patterns. It has been necessary to eliminate obstacles to production and to atack the problems of developing mineral reserves and reducing waste in their exploitation. In all of these fields, a large part of the over-all problem is the determination of the actual state of the economy, that is, the obtaining of reliable statistics.

In this nation of so many people on so little land, food production is the most pressing single problem. Current yields from the 15 million acres under cultivation are not sufficient to feed the population of nearly 80 million and in all likelihood never will be. Although Japan may succeed, by increasing both yields and acreages, in producing a bare subsistence requirement, we see no escape from the conclusion that food will always have to be imported, particularly in the light of the net increase in population of more than one million per year. Any increase in the domestic food production is of interest, both to the American taxpayer who paid more than 295 million dollars in 1947 for food for Japan, and to the citizens of all those countries, who during these last few years, have had to look beyond their own boundaries for food. The low fertility of Japanese soils, the shortage of fertilizers, the scarcity of unused arable land, and plant diseases are major obstacles to increased food production. These constitute the pressing production problem faced by Allied experts.

Although the Japanese have long recognized land reclamation as an important means of expanding cultivated acreage, past reclamation programs have been ill-conceived and managed. At the beginning of the Occupation, American aericultural specialists

reviewed the reclamation program of the Japanese Government and recommended revisions of certain plans and practices. Surveys of 370 areas proposed for reclamation are now in progress under the direction of these men. Reclamation projects have already added about 770 000 acres of arable land to the cultivated acreage: improvement projects have added 250,000 acres more. In addition to the land reclaimable for agriculture Japan has about three million acres of uncultivated, non-forested slopes which are being investigated as possible pasture and forage lands for livestock.

Agricultural extension work, as a means of disseminating the results of research, has been conducted by quasi-governmental agricultural associations. Although this system has been effective in forcing farmers to adopt some improved farm practices. more than 40,000 public employees have been required to carry out the program. After considerable study of Japanese agricultural research and extension, American specialists recommended that the Japanese Government develop a closely co-ordinated research and extension system. As a result of these efforts, the Japanese Diet on 5 July 1948 passed two laws which provide a legal basis for reorganization on these lines of work. The first law establishes in the Ministry of Agriculture and Forestry an Agricultural Improvement Bureau which is responsible for the co-ordination and technical guidance of research and extension activities. The second law provides the basis for the national government to conduct research and extension work cooperatively with the prefectures.

Although the providing of a minimum caloric subsistence level for Japan is primarily an agricultural responsibility, the principal sources of animal proteins in the Japanese diet. are fish and other marine products. At the beginning of the Occupation the immediate requirement was to increase production, which has suffered with the rest of the economy from the disintegration of war. American fisheries technologists have supervised a program to make the best possible use of critically scarce equipment and to increase imports of needed raw materials. Under this program, fishing boats have been built, fuel oil, cotton. abaca, and other fibers have been imported, net and twine factories and cold storage and refrigeration plants have been restored to use. Production has been increased from the 1945 level of four to five million pounds to more than seven million pounds. which is about as much as the present fishing area can support.

General MacArthur has authorized the Japanese to conduct Antartic whaling expeditions during the past two years. These have been accompanied and supervised by his personal representatives. All operations have been in accordance with the International Whaling Convention. Utilization of catches during the last expedition was well nigh total. The vield from these operations has supplemented the Japanese diet where it is most deficient; namely, in animal protein and fat, and has included valuable by-products. A third expedition, operating under similar conditions, will leave for the Antarctic this November.

Japan's forests, which suffered from overcutting and insufficient replanting during the war, are now subject to heavy demands for reconstruction. The major task of General MacArthur's

staff in this field is to institute measures to counteract the wartime over-exploitation and at the same time to furnish necessary wood for fuel and construction. Surveys of the forest areas show that Japan faces the possibility that its more desirable timber stands will be exhausted within 15 years. Less than 25 percent of the present forest area furnishes 85 percent of the annual timber production. The Government has a five-year reforestation program which aims to place timber production on a sustained vield basis. American foresters supervised the planning and the administration of this program, which has reforested 780,000 acres since the beginning of the Occpation. They have the continuing objective of seeing that it is maintained, rather than being postponed and diminished as were earlier reforestation programs,

Erosion control is closely related to reforestation. Japan's rugged topography, heavy precipitation, long shore line, and strong coastal winds contribute to serious erosion and to sand dune movement. The denuding of mountain slopes for many years has aggravated these problems. The removal of natural water controls has resulted in silting of river channels which, in turn has retarded the normal runoff of excess waters and increased the threat of floods in some of Japan's most productive farmlands. The Supreme Commander for the Allied Powers is stressing the replanting and management of the protection forests which have been damaged by excessive and unauthorized cutting

Material savings have been effected by introducing improved methods of processing pulpwood which give higher

vield than those previously employed. One of these, a semi-chemical pulping process adapted to present pulp mill equipment yields one-third more pulp than the former process and gives consistently better quality papers. Another improvement was the addition of locally procured volcanic ash to red pine pulp so as to overcome pine nitch difficulties in the manufacture of newsprint: this resulted in greater capacity of equipment. Information on improved processes in manufacturing machine-coated and kraft papers has been given to the industry and is being used by paper mills, General specifications for various types of paper have been developed and used for the first time in the Japanese paper industry. In the plywood industry, similarly, specifications have been adopted; improvements in glueing techniques have also been effected. New processes for the utilization of forest pulp mill wastes have been introduced.

Turning now to mineral resources. the coal mining industry was in a particularly bad condition when World War II hostilities ceased. The demands of the war industries had forced a huge increase in coal production with little concurrent exploration, development, or maintenance. In late 1945, production had declined to only 600,000 metric tons per month: non-industrial requirements alone were three times as much as this. Today, the minimum coal requirement is 36 million tons annually: production is about 31.5 million tons

Surveys of the principal coal and lignite producting fields were made, and data on proved and potential reserves were assembled. Through the efforts of General Headquarters personnel, a Coal Exploration Advisory Committee was formed in order to proper co-ordination guidance of exploration activities by the Jananese Government agencies This committee includes the bestqualified Japanese coal geologists, engineers, and technologists, and might be compared with the Regional committee which operated under the chairmanship of the Regional Controller of the Ministry of Fuel and Power in England. The Regional Committees. it may be recalled, have recently carried out surveys of each coal region in Great Britain, Current emphasis in Japan is on the re-mapping and surveying of solid fuel deposits, on preliminary geological field studies on seismic prospecting on a national scale. and on related research aimed to extend present fields and establish new reserves.

The development of Japan's meager petroleum resources has been due to the absence of co-ordinated exploration and modern techniques. The Supreme Commander sponsored the establishment of the Petroleum Exploration Advancement Committee, whose members are drawn from Japanese Government agencies, private producers, and the universities, to co-ordinate exploration and execute a balanced program of geological and geophysical surveying and exploratory drilling. Several small new oil fields and extensions to two producing fields have been discovered.

In contrast to coal, reserves of which are adequate to meet the requirements of industry, Japan has never been able to fill her requirements for metals from her own mines. Lack of foreign exchange, however, has made it imperative that maximum use be made of available mineral resources. As with the coal mines, overproduction from metal mines during hostilities, with the concurrent lack of development and wearing out of equipment, have left mines in poor condition to meet present demands. General MacArthur's staff has conducted studies of the available metallic mineral resources. But the geology of the deposits, and mining and milling techniques were investigated. The new blasting techniques of selective mining which were introduced by American engineers have increased the speed of driving development workings, Efforts have ben made to educate the Japanese in techniques of selective mining in the narrow veins, common to many of Japan's mineral deposits, to reduce the quantity of barren waste being hoisted and processed through mills already in a serious state of deterioration from overuse. Some improvement in mill recoveries has resulted from insistence upon more attention to better control of mill feed and reagents.

Pyrite, one of the few minerals of which Japan has adequate quantities to satisfy her needs, is the principal source of sulfur in her sulfuric acid industry. Close attention has been paid to maintaining production adequate to meet the sulfuric acid requirements of the fertilizer industry.

No less than in other phases of the mining industry, wasteful practices were found to be common in metallurgical plants. Merely by introducing new methods for the production of copper "starting sheets" for use as cathods in electrolytic refining, man hours required in this operation have been reduced by more than 50 percent and, in addition, it has been found that the percentage of rejects, because of fully finished sheets, have been reduced from 25 percent to about two percent. By introducing improved "poling" techniques in refining dectrolytic copper, General Head-quarters technicians were able to reduce plant fuel consumption as much as 27 percent. Similar improvements are being introduced as rapidly as the industry can assimilate the new techniques.

Research within the mining industry must be co-ordinated, and universities and mining companies must share their findings, if optimum utilization of Nippon's meager but varied mineral resources is to be obtained. Striking is the need for an extensive reorganization of the Japanese Mining Bureau, whose complexion in the past has been largely political. Current recommendations call for the creation of a Research Division, staffed by competent technologists and directed to provide for a greater exchange of information between public and private agencies. In addition, General Headquarters is advocating that the laboratory facilities of the large mining companies be made available to both academic researchers and smaller mining companies. And related to research is the newly established centralized statistical section of the Japanese Mining Bureau. This organization provides for the first time in Japan, an agency for co-ordinating the eathering of mineral statistics.

At the same time that these technological changes were being instituted, the Supreme Commander took steps designed to lead the Japanese into a more democratic way of life. The social problems of Japan are intimately related to those of development of her resources. The land reform program, which has been correctly singled out by all commentators as General MacArthur's most important reform, strikes at the roots of the feudalistic agrarian system which has held Nippon's tenant farmers in economic bandage for centuries. The reform provides for the purchase of 4.5 to 5 million acres, or approximately 80 percent of the tenant-cultivated land. The tenants will become owners of that land. The program is being carried out smoothly and expeditiously. Most of the land subject to the land reform has already been purchased by the government, and 75 percent of it has already been resold to the tenants. The end of 1948 will witness the successful completion of the historical and far reaching reform. The economic and social status of Japanese farmers has been further improved through the dissolution of autocratic and regimented agricultural associations through which the government dominated the agricultural economy during the war. Agricultural cooperative legislation enacted by the Diet in November, 1947, authorizes farmers to organize on a voluntary basis, democratically controlled cooperative associations formed on internationally recognized principles.

In the field of mining and geology, programs of decentralization of economic power are now being detailed. General Headquarters personnel are cooperating in the development of these projects with the objective of ministaining the greatest efficiency of use of the resources which is consistent with needed reform in management. A safety program for the coal mining industry has also been proposed which

includes safety education of the miners and regulations for mine operation at progressively higher levels over a period of years. It has the ultimate objective of ataining western standards of safety.

This account of the activities of the National Resources Section has highlighted certain problems of resources utilization and the work of Allied scientists in assisting General Mac-Arthur to develop a sound basis for the formulation of reconstruction policies. It would fall in its intent, however, if it did not make clear the fact that other staff sections of General Headquarters and the Military Government teams of the Eighth United States Army have made comparable contributions in their respective fields toward the solution of the basic problems of the Allied Powers:— The development of a sound economy for a free, non-colonial, democratic Japan, for a Japan that will neither need nor want to wage war again.

Proceedings of the Inter-Professions Conference Available

Engineering educators contributed heavily to the success of the Inter-Professions Conference on Education for Professional Responsibility, held last April at Buck Hill Falls, Penasylvania, and they have written important chapters in the recently published Carnegie Press story of the Conference, "Education for Professional Responsibility."

The story is told in "proceedings" form with papers printed as they were presented during that significant three-day meeting of educators from the fields of engineering, law, business, medicine, and theology.

Engineering spokesmen included in the book are Harry S. Rogers, President of Brooklyn Polytechnic; B. Richard Teare, Jr., Head of the Department and Buhl Professor of Engineering at the Carnegie Institute of Technology; and Elliott Dunlap Smith, the Provost and Maurice Falk Professor of Social Relations at Carnegie.

Provost Smith, originator and Chairman of the Conference, gives what many have termed "one of the most concrete plans for the type of professional education needed today," when he presents his answers to the main Conference questions:

main Conference questions:

1. What should the goals and aims of professional schools be in this jet-

paced world?

2. What type of courses must be included and how can these courses be taught in order to give our professional men and women (a) the best possible start in learning their professions from experience and (b) the qualities which citizenship in an enduring free society demands of its leaders?

In essence, Mr. Smith says "Education in the past has unquestionably failed to prepare professional men to assume a place of professional democratic leadership in dealing with the problems of society," and then goes on to outline a program which includes:

 A new method of teaching humanistic and social courses and a new content for them.

2. A shortening of the time required for a professional degree by teaching the human and social courses at the same time as the professional courses.

3. A joining of general and technical education in common methods of instruction and in an interrelation of content.

President Harry S. Rogers characteristically pulls no punches in his discussion of "The Gaps Between the Statement and Achievement of Objectives in the Education of the Engineer." In speaking of general education as we know it today, he states that "engineers are skeptical of its methods and achievements."

"We have listened too long," President Rogers continues, "to such trite expressions as the 'liberal arts prepare one for living, whereas specialized training prepares one for making a living' It seems apparent that those who make such statements are confusing the cumulative contributions of liberal culture to mankind with achievements which can be reasonably expected from two years and

eight months of general education." President Rogers' subsequent remarks alone with Provost Smith's and those of Professor Teare on a "Method in the Problem Solving Madness" should go on the "must read" list of everyone who is interested in engineering programs which will help make graduates not only competent practitioners, but good citizens and better men and women as well.

Carnegic Tech News Service

Fifth Region Has Spring Conference

Region Five comprising Gamma, Epsilon, Lambda, Psi, Chi, and Omega Chapters together with the Los Angeles, Southwestern, Northwestern, and Intermountain Alumni Associations held a three-day regional conference last spring on April 30 -May 2. Lambda Chapter and the Intermountain Alumni Association acted as hosts because of their central position. The distances travelled by the delegates were tremendous by eastern standards, several of them being greater than that from Chicago to New York. In fact, the average distance travelled by the visiting delegates was nearly this great. In view of this fact, the attendance of nearly forty at the principal banquet is indicative of the enthusiastic "turn out" which the meeting achieved.

The Conference opened on Friday evening with a dinner and a smoker. Prof. R. S. Lewis of the University of Utah Mining Department giving the

after dinner address, Saturday morning and afternoon were devoted to business sessions which were in charge of Grand Outer Guard George Carter. Another banquet on Saturday evening was climaxed by talks by Brother Ernest Klentko. President of the Intermountain Alumni Association and by Brother Carter. Robert Mayer, Regent of Lambda Chapter, presided.

A number of the delegates stayed for an inspection trip to the Kennecott Copper Open Pit Mine near Bingham on Sunday morning.

Visiting delegates included Brothers Peter of Gamma, Boyd of Epsilon, Emerson of Psi, Williams, Oliver, and Ruggles of Chi, and Schoessler, Schmidt, and Johnson of Omega. Brothers Mayer and Focht represented the host chapter and Brother Jenkins the Intermountain Alumni Association. Despite their brief time together thesee men left Salt Lake City feeling that they had gained many real friends.

Theta Tau Regional Conference Held At Lancaster, Pennsylvania

A. D. Hinckley and Norman B. Ames, representing National Council, led the discussion at the Regional Conference held in Lancaster, Pennsylvania on May 1, 1948. Representa-

B. tives of Theta, Nu, Pi, Rho, Tau, and cil, Gamma Beta chapters were present, and Gamma Beta acting as host.

The complete registration of those in attendance follows:

Name	Chapter	Office	
Stephen G. Flannagan	Rho	Vice Regent (elect)	
Kenneth C. Link	Rho	Scribe (elect)	
Theodore T. Patterson	Pi		
Walter M. Clark	Rho		
John A. Parker	Pi	Scribe (elect)	
Charles C. Quarles	Pi	Scribe-Regent (elect	
Edward Alpert	Tau	Regent	
Christopher Pallotta	Tau	Vice Regent	
Edward T. Fogg	Pi		
V. A. Shriner	Pi		
Ernest C. Hunt, Jr.	Rho	Regent (elect)	
Robert C. Hinkle, Jr.	Rho	Regent	
Gerald L. Conklin	Tau		
Merrill R. Brown	Gamma Beta	Regent	
Erwin J. Liljegren	Gamma Beta		
Donald D. Blanchard	Gamma Beta		
Wm. R. Sutherland	Gamma Beta		
James A. Sinsabaugh	Gamma Beta	Treasurer	
Vincent H. Hennessy	Gamma Beta		
Howard P. Morrison	Nu	Vice Regent	
Stanley B. Siegel	Nu		
William J. Demorest, Jr.	Nu		
Richard M. Anderson	Nu	Regent	
John J. Kearns, Jr.	Theta	Correspond. Sec'y	
Peter B. Sheridan	Theta	Scribe	
A. Dexter Hinckley	Theta	Council	
N. S. Fisk	Theta	Adviser	
N. B. Ames	Gamma Beta	Adviser	

The discussion at the Conference Sessions was recorded by V. H. Hennessy of Gamma Beta Chapter. Don Blanchard opened the formal Conference, according to ritual, and Merrill Brown took the Chair during the Conference discussion. Blanchard closed the meeting according to ritual. (Prior to the opening of the afternoon session, Dr. Distler, President of Franklin and Marshall College, spoke a word of welcome. He was introduced

by Brother Hinckley.)

The duties of chapter officers and advisers, having been outlined so well in the recently duplicated guides, left little room for discussion. The study by these guides (which was evident) will undoubtedly prove valuable to the respective chapters.

There was much interest in the Schrider award and it seemed that clarification of its operation is necessary in some parts. One delegate made the excellent suggestion that Council members in their visits to chapters should review the award check sheet with the chapter officers, and aid in evaluating the entries.

The very critical situation reported by Nu developed the longest discussion indicating the necessity of carefully considering the position of the Fraternity in relation to the colleges. Careful preparation for a consideration of this subject is a "must" for the December

'48 Convention

The Banquet program included brief talks by each of the regents or representatives of chapters present; Prof. Nelson Fisk, Theta Chapter adviser, spoke briefly. Brother Hinckley emphasized the responsibility of the actives in plans for the Fraternity's future and indicated how Theta Tau's objectives fit right into those stated by the World Engineering Conference in 1946. He concluded by reading a telegram from Grand Regent Ralph

Nusser as follows: "Fraternal greetings to the members of your Regional conference. Theta Tau has a long and glorious history, one which should make each of us proud of the badge which we wear. Our strength of the past has been built and maintained by the combined efforts of the constant unity among our individual men and chapters. Our future is largely in your hands: we look to you to carry on and maintain the heritage we older men have handed down to you. We believe in you and have every confidence in our future because of you. May much good come to each of you through this conference My sincere good wishes for personal success, health and happiness goes forward to each of you. Let us keep alive the spirit and the meaning of H and T."

Grand Vice Regent Norman Ames gave a most inspiring talk on the ideals of the Fraternity.

The officers of Gamma Beta chaper, with Don Blanchard as Request, went through in outline form the complete initiation procedure. This was not an actual initiation and provided ample opportunity for the discussion of procedure followed by the different chapters. Blanchard did an excellent job in stressing the proper way to present the various parts of the ritual.

Donald E. Taylor Joins Eastman

After receiving his master's degree at Purdue, Donald E. Taylor, Delta '42, has joined the camera works division of the Eastman Kodak Co., Rochester. Brother Taylor will be employed in the wage standards department. From 1932 to 1936, he attended Purdue to study machine design, receiving his master's degree in mechanical engineering.

Daniel Kennedy New U.S.G.S. Division Engineer

Daniel Kennedy, Iota '26, succeeded C. L. Sadler as division engineer in charge of the Central Division of the U. S. Geological Survey, with head-quarters in Rolla. He took over his new duties Iuly 1.

A veteran of World War II, Brother thenedy served as a Lt. Colonel in thenedy Served as Lt. Colonel in Patton's 3rd Army in France was decorated personally by General Patton for brilliant achievement in military service. He also received the Parule Heart and the Legion of Merit.

Brother Kennedy is also a veteran of the first World War and went to MSM under the vocational training program. He received his B.S. in Civil Engineering in 1926, and the professional degree of Civil Engineer in

He was connected with the U.S. Geological Survey from graduation until he entered the service. After



his new appointment with the U. S. Geological Survey, he was chief of operations and planning of the Army Map Service in Washington, D. C. Misouri School of Mines Alumnus

James L. Head Becomes A.I.M.E. Director

James L. Head, Iora 116, has been nominated as director of the A.I.M.E. for a three-year term, beginning February 1949. He joined the Institute in 1915, during his senior year at MSM, and has been an active participant in staffairs, particularly since coming to New York City in 1929. He was appointed secretary of the New York Section in 1938, reappointed in 1939 and then served successively as and then served successively as chairman in 1940-41 and as chairman in 1940-41.

A member of the Admissions Committee since 1941, he has been its vice chairman the last two years. In 1945 he was secretary of the Institute's Special Ways and Means Committee which made an exhaustive study of the organization. Since October 1947 he has been one of the three A.I.M.E. members of United Engineering Trustees and represents the latter organization on the Board of Engineering Societies Library.

His most recent assignment is at he ALIME. representative to join with the appointees from the Civils, Mechanicals, Electricals, and Chemicals on a committee of five, established by the Engineers Joint Council for the purpose of preparing a plan for the increased unity of the Engineering Profession.

Missouri School of Mines Alumnus

Boris B. Petrolf Named Highway Economist for the



Boris B. Petroff, Rho '33, is highway economist for the Public Roads Administration in Washington, D. C. For two years he served as junior draftsman for the North Carolina State Highway Commission and for a year as senior draftsman for the II S. Resettlement Administration in Raleigh and then for five years as assistant manager of Traffic Survey for the Highway Commission. In 1942 and 1943 he served as a private in the army of the United States. He has held his present connection since 1943. At a meeting of the highway research board last year he had the honor to present a paper dealing with his research entitled "Some Criteria for Scheduling Mechanical Traffic Counts."

North Carolina State College News

Vernon H. Neubert Awarded Fellowship

Vernon H. Neubert of Cabot. Pennsylvania, who graduated this spring from the Carnegie Institute of Technology, was awarded the Tau Beta Pi fellowship for a year's graduate study in civil engineering. He was one of the five young men selected in a nationwide competition open to senior members of the society in all branches of engineering. He is doing graduate work at Carnegie Institute of Technology with emphasis on vibration problems in the field of structural engineering. Brother Neubert was also selected from among 532 graduating engineers and scientists to receive the

Most Promsiing Engineer Award sponsored by Thera Tau. He is also a member of Omicron Delta Kappa. Tau Beta Pi, Beta Theta Pi, and Phi Kappa Phi. He has been active in Scimitar and Delta Skull fraternities. in intramural sports, the Glee Club, and the Y cabinet, and the student chapter of the American Society of Civil Engineers, and has contributed articles to the Carnegie Techical magazine. He has been an honor student throughout his civil engineering course and he has earned about onehalf of his expenses through part-time work

W. J. Goodrum Promoted

W. J. Goodrum, Rho '44, has been promoted to assistant works manager for Spencer Kellogg & Sons, Long Beach, California, He received special training at the Kellogg plant in Minneapolis, Minnesota, preparatory to taking over his new position July 1. Upon graduation he joined Spentino Holmes, California Spential Spenial Spential Spenti



North Carolina State College News

Howard M. Ellis Holds New Position

Howard M. Ellis, Rho '29, a native of Beaufort County, was recently appointed head of Agricultural Engineering work for the State College Extension Service. He has served as Extension Agricultural Engineering specialist at the college for the past eleven years. After graduation, he spent four years with the Engineering Department of the Empire Oil and Refining Company in Bartlesville, Oklahoma and then returned to State College. In 1934 he was awarded a B.S. degree in Sanitary Engineering. While working for this degree, he served on the teaching staff of the Civil Engineering Department.

North Carolina State College News

Henry Rahn Made Director of Research

Henry W. Rahn, Alpha '30, has been appointed research and development director for the Corpus Christi, Texas, plant of the Southern Alkali Corporation. He joined the firm as assistant chief chemist in 1934 and in 1938 was promoted to assistant technical director. For the past two

years he has been acting director of research and development. He is a native of Duluth. Brother Rahn is a member of Phi Lambda, Tau Beta Pi, Iron Wedge, the American Chemical Society and other professional societies in his field.

Minnesota Alumnus



C R Newpher Appointed Division Manager

C. Richard Newpher, Delta '37, has been named division manager of the Ivanhoe Division of the Reliance Electric and Engineering Co. at Cleveland in addition to his former duties as production manager. Brother Newpher's increased responsibilities include taking charge of the company's plant at 1170 Ivanhoe Road, purchased in January from the Detroit Steel Corp. He joined Reliance upon graduation and was in sales engineering until 1942 when he became production manager of the Ivanhoe Division since February 1946.

Case Alumnus

Richard L. Templin A.S.T.M. President

Richard L. Templin, Zeta '15, assistant director of research for Alcoa's Aluminum Research Laboratories, New Kensington, Pennsylvania, has been elected president of the American Society for Testing Materials for the coming year. After additional graduate study at the University of Illinois, completed in 1917, he was associated for two years with the National Bureau of Standards at Washington, D. C. In January, 1919, Brother Templin joined Aluminum Company of America as chief engineer of tests with the responsibilities for mechanical testing, standards, methods and apparatus used in the company's laboratories. He was made assistant director of research at Aluminum Research Laboratories in 1942. Throughout his many years with Alcoa, he has been personally responsible for the development of many of the testing methods that are used today in the inspection and quality control of aluminum products.

Alcos Aluminum News-Letter

Past Grand Regent Daniels Receives Honorary Degree

An honorary Doctor of Education Carnegie Institute of Technology, by degree was awarded to John M. Duquesne University at its summer Daniels, Chairman of Admissions, commencement August 6, 1948.

Nationally famous for his work in perfecting college entrance tests, Dr. Daniels, who also gave the commencement address during the Duquesne exercises, told the graduates that to succeed in life they must do much more than just get by.

Urging a greater interest in government and national and international affairs by the graduates, Dr. Daniels said: "It is my firm conviction in this present great struggle among ideologies that it is more important now than ever before for men and women trained as you have been to think things through, to co-operate, and to get along with other individuals."

Dr. Daniels gave high praise to the co-operation displayed by the heads of the three universities in Pittsburgh, "In no sense do we think of education as being competitive among our colleges. Friendly rivalry—yes; competition in education—no."

Born in Blairsville, Pennsylvania, on August 31, 1879, Dr. Daniels attended Freeport High School and Kiski Prep before enrolling in the University of Pennsylvania. In his sophomore year he transferred to the University of Pittsburgh, where he received a Bachelor of Science degree in Civil Engineering in 1922.

He joined the Tech Staff in 1922 as an instructor in Civil Engineering. In June, 1939, he was appointed an assistant professor in the College of Engineering and Science, assuming his present position as chairman of Admissions one month later.

President of Theta Tau Fraternity from 1937 to 1939, Dr. Daniels has served on the fraternity's Executive Council since 1932. He is also a member of Phi Kappa Phi, Theta Xi, Omicron Delta Kappa, and Alpha Phi Omega fraternities.

Dr. Daniels, former president, secretary and treasurer of the Middle States Association of Collegiate Registrars, has also served on the Allegheny (Pennsylvania) County Scholarship Committee and the College Entrance Board.

Carnegie Tech News Service

D. M. House Becomes Broadcasting Company President

Daniel M. House, Rho '33, has found an unusual occupation for an engineer. As a student he became a member of the Reserve Corp through participation in the R.O.T.C. When the war loomed, he entered the American army as a First Lieutenant and through the succeeding five and a half years served as a Captain and, finally, a Major.

While in the service, Brother House initiated the idea and constructed the first two army broadcasting stations in the world. Out of this eventually came the vast network and organization known as the Armed Forces Radio Service. His last two years of service were spent in Hollywood where his commanding officer was Loretta Young's husband. After this gruelling service, Brother House could not shake off his army experience and now we find him President of a music broadcasting company, Planned Music of Kentucky, Inc. His partner in the business is the president of the Columbia Broadcasting System.

Max Thomason, Rho '33, Assistant To Chief Engineer

Max D. Thomason has been assistant to the chief engineer of Cannon Mills Company at Kannapolis since he returned from active duty with the army in October, 1945. He graduated at State in 1933 in mechanical engineering and has been employed by Cannon Mills Company since that



time except for the time he was on active duty. He entered Cannon Mills Co. Machine shop as a machinist in 1933, was made shop foreman in 1936, and was promoted to assistant master mechanic in 1938.

Brother Thomason entered the army in May, 1941, and was promoted to major in December, 1945, at Fort Brage, He trained in Maryland, North Carolins, and Pennsylvanis, and was stationed in Iceland, England, northern Iceland, France, Luxembourg, Germany, and Czechoslovakia. After returning to the United States, he was stationed at Camp Campbell in Kentucky, Brother Thomason was swede the Broonze Star Medal and Battle Stars for campaigns in Normandy, northers France, Rhineland, Ardennes, and central Eurone.

He is secretary-treasurer of the Cabarrus County State College Club. He also serves as member of the "Y" Men's Club, vicepresident of the Piedmont Chapter of the American Society of Mechanical Engineers, and member of the Presbyterian Church. North Carolins State College News

Classification of Fraternities

"A social college fraternity is a mutually-exclusive, self-perpetuating group which organizes the social life of its members, in accredited colleges and universities, as a contributing factor to their educational program; and draws its membership primarily from the undergraduate body of the institution.

A professional fraternity is a specialized fraternity which confines its membership to a specific field of professional or vocational education in accredited colleges and universities, and maintains mutually-exclusive membership in that professional field, but may initiate members of the social college fraternities.

An bonor society is an association established only in a four-year or more degree granting college or university that is accredited by the Association of American Universities or by the appropriate regional accrediting agencies . . . or by the appropriate professional accrediting agencies, and which meets the following minimal qualifications:

- It receives into membership individuals who achieve high scholarship and who fulfill such additional requirements of distinction in general leadership or in some broad field of education and culture as the society may
- establish.

 2. It elects to membership irrespec-

- tive of membership in or affilia-
- It confers membership solely on the basis of character and specified eligibility.

A recognition society is one which confers membership in recognition of a student's interest and participation in some field of collegiate study or activity, with more liberal membership requirements than are prescribed for the general and departmental honor societies.

Ivan Burrell Made Superintendent

Ivan G. Burrell, Gamma '31, formerly superintendent of production in the Bridgeport, Illinois district for The Ohio Oil Company, is Division Superintendent of the Company's Marshall Division.

Like so many of the men holding executive and supervisory jobs in the oil industry, he combined a formal engineering education with practical oil field experience that started at the bottom of the ladder. Following graduation he took a job with The Ohio in the Casper Division working with a core drilling outfit in the Nebraska area. He was then transferred to the General Offices at Findlay and worked for a short time in the Title and Tax department. On his request for more field experience, he was transferred to East Texas where he worked for three years as a roustabout.

In July, 1936, he was promoted to assistant district engineer, Rhodessa Field, Texas, and a year later to foreman. Then following a year in the Kentucky field, he was transferred and promoted to Division Petroleum



Engineer for the Marshall Division. He was recently appointed a member of the Engineering Committee of The Interstate Oil Compact Commission. He is active in the Illinois Basin Chapter of the API, Division of production.

Letters to the Editors

6419 Barnaby St., N.W. Washington 15, D.C. July 7, 1948

Dear Brothers Mercer and Howe:
The Fall 1946 issue of The Gear reported
the dearth of Brother Frank A. Hitchook,
a charter member of Gamma Beta Chapter,
Almost a year ago the Engineer Alumni
Association surborized a memorial photograph
to match in style those for two other decased
faculty members previously honored. It was
my privilege to serve pointly with the Alumni
Secretary of the University in securing the

photograph. Presentation was made to Dean Frederick M. Feiker (Gamma Beta Honorary) at the Twentieth Annual Engineers' Banquet on May 8, 1948, at which time the Dean paid tribute as he had on previous occasions to Professor Hitchock's services to the School of Engineering, particularly his Administration of the Engineering, Science, Management War Training Program. Some measure of his responsibility may be gained from the fact that under his direction 13,000 students received training in one or more of the 350 courses offered. Instructors were drawn from the government and industry as well as from the faculty and the students included not only inexperienced young engineers but persons

holding important positions in the war effort. During the past week, I have received a letter from Dean Feiker telling me that the Hitcheoke photograph has been hung in his office. I am bringing this to your attention in case you do not learn of it through other channels as I am sure you will want to mention it in the next issue of The Gear.

next issue of The Gear.
Yours in H & T
Wm. J. Ellenberger

St. Paul 5, Minnesota
2166 Scheffer Avenue

October 21, 1948

Dear Professor Howe:

When my husband died, the fellows of his fraternity and engineering class did a great deal for me. I would like to thank them, but because they are so widely scattered I thought of the Gear as the best way of

I wondered if it would be possible to put in a few lines in the fall edition before it goes to press.

"To Alpha Chapter of Theta Tau and Civil Engineering Class of 1934, we wish to express our most heartfelt thanks and appreciation for the gift in memory of Lewis F. Martin." I would appreciate it very much if you would give this your attention.

Sincerely,

Thank you for your thoughtfulness, Mrs. Martin. The helpfulness of your husband's fraternity brothers and friends is testimony to his fine character and the high esteem in which he was held.

> 1027 Gary National Bank Bldg. Gary, Indiana

Deer Brechers
Instituted as I am entitled to a life subscription to the National Magazine published
visice a year. I forward you my current
address trusting that this will effect the
resuming of my receiving this publication.
I do not recall seeing a copy of the Gear
for quite some time and no doubt it is because
I have moved from Hammond, Indiana to
Garz, Indiana

My correct address is 444 Ellsworth Street, Gary, Indiana. Should I change my address, I shall notify both you and my local chapter at West Lafayette, Indiana.

Please accept my sincerest good wishes and appreciation for your efforts in this semiannual publication.

Yours in H & T.
Paul M. Scherer, Phi '34
Here it is, Brother Scherer. Welcome back to the fold!

Shawinigan Falls, Quebec Apt. #5

217 Frigon Street

Dear Brothers:

I have just received your spring issue of the Gear which I enjoyed reading very much. It had followed me around the country quite a bit, as I have neglected to keep you

posted on my change of address.

At the present time I am working for the Canadian Carborundum Co. here in Shawingan Falls, Quebec as one of their mining

and metallurgical engineers.

I was overseas with the Royal Canadian
Engineers and upon discharge in 1946, I
was married to Miss Marjorie J. Lilburn of
Toronto. We now have a small son, James
Andrew, who just had his first birthday on
the 4th of July.

With best regards.
Yours in H & T,
A. Conrad Hawn, Beta '31

We will keep on following you as list. Brother Bergh, Let us know when long as you send addresses, Brother you move again.

Hawn, Thanks for the news. 270 13rh Street

c/o The Patent Scaffolding Co., Inc.

San Francisco 3, California Dear Brother Howe: Please be advised that the writer has not

received his copies of the Gear of Theta Tau for the last couple of years: this, no doubt, owing to changes of address resulting from service in the army. However, I am now permanently located in San Francisco, and I furnish the following outlined information that you may start sending the Gear to me once again as I am a life subscriber.

For your records, my home address is 1255 Kirkham St., San Francisco 22, California; please forward the Gear, however, to

my office address as noted above. I shall appreciate your giving this matter prompt attention as I have missed not receiving the Gear for some time.

Yours in H & T. Ross B. Bergh, Lambda '34 Your name is restored to the mailing

416 North Chauncey Avenue West Lafavette, Indiana Dear Brother Howe:

Enclosed you will find Phi chapter's article or letter for the fall edition of the Gear, I hope you will find it satisfactory. This will be my last article as I am to graduate in the very near future and join the ranks of alumni. I have enjoyed correspondence with you as Corresponding Secretary and want to take this opportunity to tell you that in my opinion the Gear is a very well written and edited publication and one I shall always look forward to receiving.

Yours in H & T. James T. Rayburn

Corresponding Secretary "Thanks for them kind words," Brother Rayburn. We will keep it coming as long as we have your correct address. Let us know where vou go.

In Memoriam

Albert Chubirko Grottle, Mu '41, age 33, was instantly killed in an air crash disaster in Ireland when the Pan American airliner. Empress of the Skies, was destroyed on April 15, 1948. Only one person escaped death in the disaster. Albert was born in Czechoslovakia on October 4, 1915, in the town of Melen, and was the son of George Grottle (dec.) of Russian descent and Olga Saxon Grottle of Czechoslovakia. He came to the United States with his parents and after high school preparation entered the University of Alabama where he graduated as an acronautical engineer. A brilliant student, he was on the honor roll for three years and had an exceptional record of 155 hours and 440 quality points. After graduation he went to work for the Sikorsky Aircraft Corp. in Bridgeport, Conn. At the time of his death he was flight engineer for Pan American World Airways at La Guardia Field, New York. Surviving are his mother, Mrs. Michael Chubirko, 366 Wigwam Lane, Stratford, Conn., and his widow living at 460 Rowland Road, Fairfield, Conn. He was also a member of Phi Eta Sigma and Tau Beta Pi.

Dewey Bjork, Beta '21, died suddenly on December 27, 1945, while dining with

friends. He was a native of Crystal Falls, Michigan and was in the S. A. T. C. at Michigan Tech during the latter part of the first World War. He was initiated by Beta Chapter on January 20, 1920, and graduated as a mining engineer the following year. From the time he left college until his untimely death he was in the employ of the Oelebay Norton & Co. large operators of iron mines in northern Michigan and in charge of operations at various mines for that company, In 1938, he had a heart atack and the company sent him and his family to Florida. He improved rapidly and being a strong rugged man returned to his company but did not go back into active operation as # superintendent. At the time of his death he was personnel manager for the company in Ramsay, Michigan. He was a member of the Lake Superior Mining Institute and of Tau Beta Pi. Surviving are his widow, living in Ramsay, a daughter, Peggy Lou, two sons, Arvid, now a student at Michigan Tech, and Jack, who has just completed Junior College and has been awarded the Montreal Mining Co. four-year scholarship at Michigan Tech. His brother, Clarence, Beta '22, is assistant superintendent of the mine in Montreal, Wisconsin.

Harry Arthur Robinson, Gamma '17, died in El Paso, Texas, on September 15, 1946. He was imitated by Gamma in 1916 and left College early in 1917 to enter the zurny. He did not return to school and for a time was employed in Lawrence, Massachusetts. Them he organized and was president of the Robinson and the college of t

Frank Long Coers, Phi '38, died of a heart attack in the Veterans Hospital in Indianapolis, on December 18, 1947. He was 31 years of age at the time of his death. Frank was born in Shelbyville Indiana in 1916 and graduated from High School there. He graduated as a mechanical engineer from Purdue in 1938 and had been active in Phi chapter holding a number of offices. After graduation he entered the employ of the Cummins Engine Co. in Columbus, Indiana. As he was a 1st Lieutenant of the Indiana National Guard, he was called into active service in 1941 but was discharged about eight months later because of a heart murmur. At that time he was also married to Miss Dorothy Thompson of Columbus, Indiana, He returned to the Cummins Engine Co. and at the time of his death was Supervisor of Test Engineers. He was a member of Scabbard & Blade, Pi Tau Sigma, and of the Society of Automotive Engineers at which he had been very active and was scheduled to present a paper at its Detroit meeting. Surviving are his parents, Mr. and Mrs. Roy Coers of Lafayette, Indiana, his wife, Dorothy, a son, Roger, age 5, and a daughter, Mary Susan, age 3, and his brother, Roy Coers, Ir., Phi

Albert Joseph Houle, Hon. Beta, died at his home in Douglas, Arizona, on February 14, 1943. He was born in 1875 in Negaumee, Michigan, the son of Cyrille and Exilia Verville Houle. Shortly after graduating as a mining engineer at the Michigan College of Mines in 1896, he joined the metallurgical faculty. He was initiated on January 23, 1915. He was professor of metallurgy until he resigned in 1920 to join the staff of the Phelps-Dodge Corp. at Morenci, Arizona, and remained there until about 1928 when he was transferred by the company to Nacozari, Sonora, Mexico to the staff of the Moctezuma Copper Co. He moved to Douglas about 1936 and at the time of his last illness was construction engineer for the army at Ft. Huachuca near Douglas. Surviving is his widow in Douglass at 1414 9th Street. He was also a member of Tau Beta Pi.

Earl Iosiah Gregory, Iota '30, died suddenly of a coronary occlusion in Howell, Michigan, on January 28, 1948. He was born in Punxsutawney, Pennsylvania on February 10, 1905, After high school preparation he entered the Missouri School of Mines and Metallurey and graduated as an electrical engineer in 1930. For some years after graduation he was with Westinghouse. During the war he taught at Willow Run and at the time of his death was design engineer for the Howell Electric Motor Co. in Howell, Michigan, Funeral services were held in Howell on January 31, 1948. Surviving are his wife, the former Marguerite Charles of Rolla, also a graduate of M.S.M., and three children, Jean Charles 11, John Leighton 9, and William Walter 4. The family is remaining in Fenton, Michigan,

Harold Irving Bealle, Eta '23, died May E. 1937. He studied chemical engineering at M.I.T. and after graduation was employed for some years by the Durex Rearch Liboratory in New York City, About 1932 he entered the engloy of the Tidewater Oil Co. at a special representative and was located in on Oild Church Rand, Greenwich, Commercial Comm

Willred Newton Parker, Ets. '21, died on December 29, 1937. He graduard as a civil engineer from M.I.T. specializing in the construction of industrial plants and from 1928 and the state of the state o

David Child Dodge Jr., Gamma '15, died January 26, 1947. He studied mining engineering at the Colorado School of Mines and received his E.M. in 1915. After World War I he was with the Rare Metals Co. in Rollinsville, Colorado, but moved to Denver in 1921, where he was employed by the Colorado Insulex Co. From 1928 to 1941 he represented the Stewart Warner Co. as local manager and the family home was in Littleton. Colorado. He then became a partner in the firm of James Moyer Co., dealers in Dodge cars, 1278 Lincoln Street, Denver, Colorado, Surviving are his widow living at 114 Sherman Street, and a son, both in Denver, Colorado.

Emil Jack Nylund, Gamma '25, died in the Veterans' Hospital Sawtelle, California,

on July 16, 1947. He was a native of De-Beque, Colorado, and graduated as a mining engineer from the Colorado School of Mines in 1925. An excellent student, he was elected to membership in Tau Beta Pi. After graduation he was employed by Calumet & Arizona in Bisbee for many years. He then entered the employ of the Reconstruction Finance Corp. in its mining division and was stationed in Denver and San Francisco. In 1940 he joined the faculty at the University of Arizona as Associate Professor of Mining Engineering-Because of ill health he resigned and went to the Mayo Clinic and was then hospitalized in Denver for five or six months. Then he was again employed by the R.F.C. in Denver, Washington, D.C. and last in Phoenix. Aria zona. From Phoenix he went to Sawtelle where the doctors finally diagnosed his trouble as a brain tumor. He was operated on immediately but did not recover. Surviving are his widow and little son lack now living in Westhope, North Dakota, and a brother E. E. Nylund of Grand Junction, Colorado,

Edward Payson Mathewson, Honorary Chi. age 83, died in Tucson, on July 13, 1948, He was born in Montreal, Canada, on October 16, 1864, the son of James Adams and Amelia Seabury (Black) Mathewson, After graduating from the Montreal High School he entered McGill University and graduated as a metallurgical engineer in 1885. In 1922 he received an LLD from McGill and had been awarded a Dr. Sc. by the Colorado School of Mines in 1920. From 1886 to 1889 he was assayer, chemist, and assistant superintendent of the Pueblo Smelting & Refining Co. in Pueblo, Colorado, and was general superintendent of the same plant from 1889 to 1897. He then joined the staff of the Guggenheim smelter interests as consulting metallurgist and was made manager of the new smelter of the Anaconda Copper Mining Co. in Anaconda, Montana, and remained there until 1916, when he became general manager of the British American Nickel Co. From 1919 until 1926 he maintained an office as consulting metallurgist in New York City. Shortly thereafter he was made professor of Administration in the Mineral Industry at the University of Arizona. He was the inventor of many lead and copper smelting improvements. In 1911 he received the Gold Medal of the Institute of Mining & Metallurgy of London. In 1917 he was awarded the Gold Medal of the Mining and Metallurgical Society of the U. S. He was president of the American Institute of Mining Engineers in 1923. On June 25, 1890 he was married to Alicia Barry in Montreal, Canada. A son, Edward Payson Jr., and three daughters were born to them and the oldest daughter

Alice is the widow of Edward V. Graybeal, Gamma '14. He was the author of many articles published by the technical press. A kindly man, he was popular with the members of Chi chapter and all those with whom he came in contact. He was also a member of Tau Beta Pi, and Sigma Xi.

Levis Frederick Maria, Alphs 194, date in St. Paul, Minneors on August 29, 1948. He was born July 26, 1907, at Schaffer, North Dakon, the one of Mr. and Mrs. John Maria. He received his high school education described to the control of the control of the centered the University of Minneous in 1910, graduating as a civil engineer in 1914. While a toudent be was elected to Chi Bepilon and Tau Bett Ri, scholattic honor Societies. From 1914 to 1921 he was engineer for the St.



employed by H. S. Rockwell in Minnespolis until 1916 and nince 1938 has been engineer in the structural steel department for Paper-Colimonon R. Go. St. Paul. At the age of the hardward of the part o

Charles G. Thielicke, Beta 12, who had been failing in health for sometime, died June 18, 1948 at Kalgoorlie, West Australia. As the time of his death he was antistagened manager of the Lake Vew and Star Gold Mine. Brother Thielicke has a long and started career in mining distances with the American forces in Frame, attaining the rank of Lieutenant. He was to to the polificals in 1929 as underground manager, and laws 1929 as under 1920 as underground manager, and laws 1920 as underground manager, and laws 1920 as under 192

William James Goodwin, Gamma Beta '30, age 52, died suddenly of a heart attack on August 17, 1948. He was born in Beaver, Utah, on December 12, 1895, the son of Israe S. and Mary Jane Adams Goodwin. He attended George Washington University and graduated as a civil engineer in 1930. During World War I he served in France from 1917 to 1919 with an infantry division and received the Purple Heart for wounds suffered in action. On February 1, 1930, he was married to Alma Nadyne Budd in Annapolis, Maryland. For many years he was associated with the Salt Lake City engineering department and was chief building inspector from 1937 to 1945. He rejoined the department recently as an inspector. For a time he was superintendent of buildings at the Utah State Agricultural College and then was engineer for the Utah Oil Refining Co. until 1948. Besides his widow he is survived by a daughter, Jennine, and two sons, William J. Goodwin, Ir., and Ronald Lee Goodwin, all of Salt Lake City, his mother, living in Garfield, Utah, and three sisters and two brothers. Funeral services were held at the First Presbyterian Church in Salt Lake City on August 19, 1948. Brother Goodwin was a fine Theta Tau and very active in the Intermountain Alumni Association. The family home is at 1785 19th Street, East, Salt Lake City.

Eberhard Horreckpen, Jr., Aspha '43, age, Z., died in a mise accident on Mys 7, 1947. He was born in Gaylord, Minnerotz, an Updy 24, 1939, the son of Ebrahard Horreckpen and Bernh Worlsche Thorselgan. He control that the state of the son of Ebrahard Horreckpen and Horreckpen

Air Force until 1945 during which time he was stationed on New Caledonia and on Russell and Green Islands. He was then transferred to the Jacksonville Base in Florida, and was discharged in May 1946. He then re-entered the University of Minnesota for some refresher courses which he completed in June 1946, when he accepted a position with the U. S. Gypsum Co. in Oakfield, New York. He was rising rapidly in his professional work and had been selected as one of the company's district managers for future work. He was riding in a motor underground and evidently rose from his seat for some purpose and struck his head against the roof. He was instantly killed but there were no witnesses to the accident. He was a member of Sibley Lodge, A.F. & A.M. of Henderson, Minnesota, Surviving are his father, his sister, Mrs. D. T. Rollefson of Rushford, Minnesota, a step-brother Karl of Minneapolis, and three stepsisters. His mother died in 1942. He was engaged to Miss Mary Sullivan of Oakfield. New York and they planned to be married on July 12, 1947.

Morris Claire Drake, Beta '15, died in Marquette, Michigan, on June 20, 1948, after an illness of five years. He was initiated on February 19, 1913, and graduated as a mining engineer in 1915. After graduation he went to North Carolina where he was engineer at a Talc mine until 1916, when he became superintendent of a Sand Mill in Northeast Maryland and lived in Elkton. He joined the army in 1917 and served as a 1st Lieutenant of the 315th Inf. A.E.F. until 1920 when he returned to Marquette. From 1921 to 1923 he was engineer for the Cleveland-Cliffs Iron Co. at Gwin, Michigan and then for the same company in Ispheming until 1928. He then joined the Jones & Laughlin Ore Co. in Crystal Falls. Michigan and remained there until 1934. After that he joined the Forest Service and for some time was superintendent of Camp Chatham in Michigan. His home was at 324 E. Hewitt Avenue in Marquette. Michigan.

Elmer H. Paull, Bers '22, died very underhop zich home on July 4, 1948. He came to Mich. Tech from Hancock, Michigan and was initized as a mining enjineer in 1922, and worked for some time in Hancock, New York as a mining equipment salenum and made his headquarters in Grand Haven, New York as a mining equipment salenum and made his headquarters in Grand Haven, Wickigan. In 1931 he pioned the editorial staff of the Rock Products Magazine in New York Cey. At this time he took some courses York Cey. At this time he took some courses F.E. degree. In 1936 he pioned the engineering staff of the King County Eighting Co. in

Brooklyn, New York, and at the time of his death was commercial engineer with that company. The family home was at 71 Pembroke Avenue, Staten Island, New York.

Victor Ellery Bramming, Epsilon '23, died of angina pectoris in Pato, Columbia, S. A. on April 28, 1948. None of his physical examinations had shown a heart condition before he went to South America. He was born on July 29, 1899, and came to the University of California from Encinitas. California in 1917 entering the School of Chemistry. He enrolled in the College of Mines in 1920. In 1923 he was employed at California Rand Silver Inc. in Randsburg. California, and the next year worked for some mining companies near Mohave, California. Shortly thereafter he went to South America and was with Patino Mines and Enterprises at Oruro, Bolivia. From 1929 to 1932 he was engineer for tin mining companies in British Malaya, and from 1932 to 1936 was with Bulolo Dredging Co. in New Guinea, one of the subsidiary companies of the Placer Development group. Until 1942 he was in the office of the Placer Management in the Russ Bldg., San Francisco, and lived in Berkeley. In 1942 the company sent him to be manager of their company, the Pato Cons. Gold Dredging Co. in Antioquia Columbia, and he held that office at the time of his death. He had been with Placer Development Co. for 15 years, and was planning to return to California this summer and retire from active field work and foreign service. He is survived by his mother living in Huntington Park, Calif., and his wife, Irene, living at 6162 St. Helena Highway, Napa, California.

Benn Lee Raiff, Gamma '21, died on May 31, 1948, while on a fishing trip to Suisun, California. He was a native of Big Timber, Montana, and received his elementary education at Columbus, Montana, entering the Colorado School of Mines in 1917. Before leaving college he did some work for the American Smelting & Refining Co. and later remained with them. His first work was at the East Helena, Montana, smelter as metallurgist and then he was sent to Chihuahua, Mexico. From Mexico he went to the El Paso plant as head of the lead department and then to Selby, California, as supervisor of the industrial laboratory. At the time of his death he was chief chemist at the Selby plant. He was married to Freda Scharpf of East Helena, who was killed in a tragic automobile accident in 1937. He was a member of the A.I.M.E. and of the Golden City Lodge A.F. & A.M. in Golden, Colorado. Surviving him are his mother, Mrs. Harry L. Raiff, and a sister, Mrs. Florence Plemp, both of Columbus, Montana.

Paul Hamilton Carpenter, Gamma '10, died in the Bonne Terre hospital the morning of July 1, 1948. He was born in New Castle, 30 toos aqu '9881 'I quark uo 'tiurajásuua, Hamilton N. and Elizabeth Bowman Carpenter. He received his elementary education in New Castle and then entered Penn State College. After a short period there he transferred to the Colorado School of Mines where he graduated as a mining engineer in 1910. While a student he was elected to Tau Beta Pi. On November 13, 1913, he was married to Miss Helene Williams in Mercer Pennsylvania. He then entered the employ of the Nevada Consolidated Copper Co. at McGill, Nevada, and also was a short time with the Ohio Copper Co. at Lark, Utah. In 1916 he entered the employ of the St. Joe Lead Co. At the time of his retirement four years ago he was mill superintendent at River Mines, Missouri, and had held that position for some years. He is survived by his widow. three sons, and two married daughters,

Dwight Moody Beard, Zeta '22, died suddenly of a heart attack while visiting relatives in Kingman, Kansas, on May 19, 1937, He was a native of Marion, Kansas, and studied electrical engineering graduating from the University of Kansas in 1922. While a student he was elected to Tau Beta Pi scholastic honor society. After graduating he was employed in Kansas City for a time and then became industrial engineer for the Western Supply Co. in Tulsa Oklahoma, where he was in the fire safety appliance husiness. In 1937 he returned to the middle west with a view of locating a new business and died suddenly before he could establish himself. He is survived by his widow, the former Marion Parmenter, and a daughter, both living at 121 Avenue C. West, Kingman,

(This notice printed at this late date because Brother Beard had been listed as "lost,")

Leo Edwin Shire, Jota '21, died of a heart attack on August 1, 1944, in Wichita, Kanus. He graduated as an electrical engineer in 1921 and shortly threatferr entered the employ in the state of the state of the state of the Kanus, and renained with them until his death. He was a member of the ALEE. Functal services were held on August 4th in Wichita. He is survived by his wife the former Betty King Snyder of Wichita.

Theodore Steele Abbott, Alpha '11, died in St. Paul on July 27, 1948 He was born in St. Paul, Minnesota on March 13, 1889, and graduated as a mining engineer at the University of Minnesota in 1911. After graduation he went to Bisbee, Arizona, to work for Calumet & Arizona Mining Co. and in 1912 he became engineer for the Liberty Bell Mining Co. in Telluride, Colorado, where he remained until the outbreak of war in 1917. He served as a Cantain in the A.E.F. until 1970 being in the 109th Fners. After the war he went to Bingham Canyon, Utah, to be engineer for the Highland Boy Mine, and then to the Vinont Silver Mine at Oakley, Idaho, where he remained until 1922 when he was put in charge of the Boriana Mine at Yucca, Arizona, and remained there until 1939. He then became superintendent of the Golden Mamouth Mine at Lake City, Colorado. and in 1942 came back to St. Paul to be engineer for Waterous & Co. until his untimely death. His widow and son, living at 857 Lincoln Avenue, St. Paul, survive,

Robert Luther McAninch, Upvilon '49, age 25, was instantly killed in a motorcycle-automobile collision on Sunday, October 3, 1944, about ix-mile eart of Russellville, Arkanus. He had been spending the week-end with his parents in Little Rock and was returning to Fayetteville. The driver of the automobile was driving in the opposite direction and made a sudden left turn into the path of the motorcycle. He was born the path of the motorcycle. He was born

in Little Rock, Arkansas, on July 2, 1923. and was a graduate of Little Rock High School. Before attending the University of Arkansas he had been at Wake Forrest in North Carolina He had an outstanding war record, retiring as a Captain in the Air Force. He flew fifty missions over Germany and also participated in the mission over the Ploesti oil fields in Roumania. The day before D.Day he led his squadron over the invasion coast and knocked off four out of six heavy gun emplacements. After coming to Arkaness he was very active in student activities. He was selected to the student senate as engineering college representative and was a member of Tau Beta Pi and Pi Mu Epsilon, scholastic honor societies. He was also a member of the 303 Reserve Composite Squadron. Funeral services were held in the Immanuel Baptist Church in Little Rock where he had been baptized and of which he had lone been a member. A large delegation from Upsilon and other students attended the services on October 6th, Surviving are his parents, Mr. and Mrs. Jesse M. McAninch, 1800 Battery St., Little Rock, his brothers, Judson, of El Paso, Texas, and Dan of Rochester, New York, his grandparents, Mrs. S. J. McAninch and Mrs. Addie A. Worthern of Little Rock. He was initiated by Unsilon chapter on March 14, 1948 and was a fine Theta Tau. The whole chapter was stunned by his untimely death.

T be GEAR of THETA TAU

P. L. MERCER, Omicron '21 and J. W. Howe, Omicron '24

Fditors

210 ENGINEERING HALL

IOWA CITY, IOWA

Subscription \$1.00 a Year

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VOLUME XXXVIII

FALL, 1948 NUMBER 1

THE SEVENTEENTH BIENNIAL CONVENTION

Theta Tau holds its second postwar Convention on the last three days of the year. Except for the national officers and visiting alumni, the Chicago meeting will be the first for most of the delegates. It will be an experience which they will always remember with pleasure. It will amaze them to see the efficiency and productiveness of the officers and committees. It will inspire them to go back to their chapters and organize a more effective program. These characteristics of the meeting together with the fun that young men always work in somewhere in the program add up to three unforgetable days for the members who are fortunate enough to be chosen by the chapters as delegates to the Convention.

On the other side of the ledger are some responsibilities which must be accepted by the delegates. They must be properly informed on the Theta Tau Constitution and ritual. They must be willing to serve conscientionally on one or more committees. And, above all, they must adopt a mature and judicial attitude when discussion waxes warm on the Convention floor. They must remember that they are

TO THE RECENT GRADUATE

Now that you are really away from college, settled down in the Big Job and finding that you can handle at least most of the problems the boss slips you, maybe its time to take stock and figure where do we go from here. For it is a certainty that every real Theta Tau is full of ambition and so is searching for that illusive and highly imaginary royal road to advancement.

Are there sign posts or beacon lights to show the way? Well our piphiosophers seem to think to. At one of them rather succintly puts it, "Luck is the contact point where preparation and opportunity meet." Another say, "Always jump at an opportunity," When you ask how do you recognize an opportunity he replied, Oh, my boy, that is what keeps the successful man always on the jump."

Another wise old philosopher with perhaps less wit but with more genuine directness wins our admiration when he says, "A man earns his salary by what he does during the working period of the day; promotion by what he does after business hours." He

legislating for the good of the fraternity and must not use the fraternity as a means of exploiting some personal conviction or crusade.

^{*}See announcement on page 4.

doesn't mean by that to carry your business problems shome with you and wrestle with them at night as well as all day. He does mean, though, that the hours away from business are golden hours too; make it your rule to use them wisely. The effective way to do this is to plan for their use, just as you would plan a building, a machine or any other engineering project.

Aside from the hours you must put

into your work and those you must use for resting and sleeping, there are many left over for recreation, social activities and for study. These are the ones you must use wisely if our philosopher friend is right, as we think he is. For your recreation, choose activities such as tennis, golf, swimming, badminton, or other kindred sports to keep your body healthy. A strong physique while not essential. is a great help to progress in this world of ours. Team games, as baseball, volleyball and the like are recommended as being well adapted for both recreation and social contacts. Church. fraternal, and social organizations offer many opportunities for needed mental diversions. Dancing and card games are other popular ways of expanding your social graces. And if you aspire to be a well liked and respected leader of men, your social

activities, like your business abilities must not be neglected.

A third, and perhaps the most important way of spending your socalled leisure time is in study or selfimprovement. First of all, of course, is continued study of your own profession. The reading of technical magazines review of old text books and the study of new treatices relating to your work are obvious forms of self-help. Correspondence, Saturday, or night school courses in commerce. economics, business law or other allied subjects can be very important. Less obvious but frequently even more helpful are the lessons learned in taking an active part in discussion, forensic, and civic groups. The art of selfexpression, especially in public speaking, is one that engineers as a rule are slow to master, but one that can be most valuable in leading to positions of responsibility.

The man who can combine technical "know how" with human understanding, a healthy body, and the ability to write and speak effectively will very soon find himself climbing the ladder to success. Start now to prepare yourself and find out how truly enjoyable as well as profitable your planned "liesure hours" can be.

A shop owner in Marseilles had a sign hanging in his show window reading, "All Languages Spoken Here."

One day a customer entered and started to speak English to the shop owner. The owner indicated that he didn't understand. The customer then tried German, and then Russian. The owner continued to shake his head.

Finally the customer protested in French, "But you have a sign in your window saying, "All Languages Spoken Here."

The owner shrugged, I don't. My customers do!"

11 1 1. 111...

C	Additions to Vie	mb	ership
	ALPHA		
544	Conrad Robert Appledorn, Crosby, Minn.	679	Donald Ra
545	Glenn Warren Schwarts, Canby, Minn.	680	William Gu
546	Earl George Angell, Minneapolis, Minn.		Ohio
547	Charles Laucklin McKanzie, St. Paul,	681	Steve Josepl
	Minn.	682	Ralph Earl
548	Alvin Joseph Mathy, Chisholm, Minn.	683	William Ly
549	John Harold Stolpestad, St. Paul, Minn.		Penn.
550	Robert William Anderson, Minneapolis,	684	William Go
	Minn.	685	Norman Ch
551	Raymond Herman Richter, St. Cloud,	686	Calvin Edw
	Minn.	687	James Edw:
552	Wilbur Junior Larson, Lakefield, Minn.	688	Clinton W:
553	Robert Burton Marquardt, San Fran-		Ind.
	cisco, Calif.	689	Charles I
554	James Russell Sveiven, Minneapolis,		Heights,
	Minn.	690	Domenic A
555	Charles Arthur Talle, Eveleth, Minn.		Ohio
556	Paul Jackson Slight, Rochester, Minn.	691	Donald Elm
557	Rodger John Ryberg, St. Paul, Minn.	692	John Jacob
		693	John Broth

559 Donald Vernon Hanson, Doland, S. D. Gary Gene Witt, Mankato, Minn. Donald Robert Price, Lamberton, Minn, Lester Robert Reckers, Sheldon, Ia. 562 RETA Raymond Ernest Dunster, Ontario, Can. Vincent Anthony Miklas, Manistee,

560

Kay Allen Spooner, Benton Harbor, Mich.

621 Frederick Elton Tervo, Detroit, Mich. 622 James Willard Garrett, Duluth, Minn. Richard Milton Harris, Escanaba, Mich, 623 Richard Charles Witte, Duluth, Minn. 624 Herman Peter Zononi, Vulcan, Mich. Robert Gray Lovell, Hubbell, Mich.

Charles Deen McKereghan, Minneapolis, Minn. James Erwin Long, Hastings, Mich. 629 David Bruce Sleeman, Iron River, Mich. 630 Joseph Martin Post, Grand Rapids,

Mich. Louis Benedict Allen, Montrose, Colo. Hugh Edward Bradley, Golden, Colo. Charles R. Fitch, Chicago, Ill.

Clarence F. Freeman, Jr., Colorado Springs, Colo. Charles Wilkin Irish, Syracuse, N. Y. Warren Oliver Johnson, Huntington

Park, Calif. Harvey Jefferson Kingry, Jr., Ft. Worth, Tex. Norman Korn, Denver, Colo

Louis Leon Landers, Longmont, Colo. 699 Robert Edward McMinn, Salt Lake City, Utah

James Ira Mercier, Santa Ana, Calif. 701 Glenn Joseph Poulter, La Grange, Ill. 702 Charles Patterson Woodward, Denver, Colo.

DELTA av Butler, Cleveland, Ohio stave Deuring, Ir., Cleveland,

sh Domokos, Cleveland, Ohio Franklin, Cleveland, Ohio endall Griffith Washington.

eorge Hulbert, Geneva, Ohio harles Jackson, Alliance, Ohio win Keppler, Cleveland, Ohio

ard Lavelle, Warren, Ohio arren Mehring, New Haven,

Richard Owen, Cleveland Anthony Romonto, Cleveland,

mer Tanger, Euclid, Ohio Tanis, Lakewood, Ohio hers Whitacre, Jr., Waynes-

burg, Ohio 694 Elbert Harry Wirstrom, Mayfield

Heights, Ohio Robert Minssen Kleinpell, Oakland,

John Francis Waldron, Jersey City,

James Coble Brice, Union City, Tenn. Frank William Lutter, Long Island City, N. Y. William Stanley Bartholomew, Berkeley,

Calif. Marc Orville Miller, Laurel, Miss. Charles Vireil Fulmer, Scattle, Wash,

Robert William Fields, San Leandro, 609 Calif. Carl Frederick Romney, Ir., Salt Lake

611 Peter Hotchkiss Masson, Dunsmuir, York T. Mandra, New York City Victor Frederick Hollister, Oakland,

Jack Foord Evernden, Berkeley, Calif. 614 ZETA

514 Francis Joseph Reid, Sabetha, Kansas Richard Herbert Harris, Council Grove, Kan. George Robert McNeish, Winfield, Kan.

Robert Paul Wahlstedt, Kansas City, Mo Richard G. Rumpf, Kansas City, Mo.

George Robert Prescott, Fort Worth,

Harrison Bateman Rhodes, Plainfield N. L. John Joseph Keams, Jr., Brooklyn, N. Y.

William Mentz Crandall, Jr., Niagara Falls, N. Y.

442 Joseph Peter Cummins, Newark 4, N. J. Peter B. Sheridan, Orange, N. J.

John Francis Brennan, Brooklyn, N. Y. 445 John Joseph Maher, Bronx, N. Y. Joseph Lewis de Cillis, II. New York, N. Y.

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MU Robert Hunter Pogue, Ir., Birmingham,

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Penn. John William Bray, Mongomery, Ala. Marvin James McGarity, Tuscaloosa, Ala

Victor Stanley Musick, Little Falls, N Y

462 Charles Pugh Pelham, Dothan, Ala. 461 Daniel Alford Riley, Birmingham, Ala.

Clem Hester Phillips, Sylacauga, Ala. Freddie Lee Williams, Onconta, Ala. 465 John Sidney Searcy, Greenville, Ala. 466

467 Monro Banister Lanier, Birmingham, Ala. 468 Claude Herbert Smith Guntersville.

Ala. Glen Sanders Jordan, Gordo, Ala.

Ester Lafayette Thomas, Jr., Birmingham. Ala. NU

Carl Friedberg Levy, Peri, Penn. Patrick Pierre McCurdy, Pittsburgh, Penn.

Herbert Glenn Benton, Pittsburgh, Penn. Milo Wayne Slye, Venus, Penn, Thomas Joseph Crowley, Pittsburgh,

Penn. Robert Lawrence Seitz, Johnstown, Penn.

Thomas Gordon Ferguson, Jr., Pittsburgh, Penn.

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Gerald Edward Peck, Harborcreek, Penn.

Ralph Robert Ryan, Aberdeen, Md. Fred Raymond Anderholm, Menono

Wis. 87 Gerald Leroy Nuttall, Mauston, Wis.

Theodore Charles Rynda, Radisson, Wis. 89 William Joseph Plummer, Durand, Wis 90 Richard I. Priem Mayville Wis James Sheldon Spindler Grand Marsh. Wis

James Leroy Waters, Elroy, Wis. George Philip Zimmerman, Wisconsin Rapids, Wis. OMICRON

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Alan Dean Nichols, West Liberty, Ia. James Edward Klein, Muscatine, Ia. Cecil Merle O'Day, Shenandoah, Ia. Steve Orlich, Johnston, Ia.

Dean Rhodes Sanderson, Lincoln, Neb. Gordon Gaylor Peterman, Villisca, Ia. William Joseph Stratman, Burlington, In.

384 Andrew George Demko, Princeton, N. J. 385 Richard David Dillender, Jr., North Augusta, S. Car.

386 Joseph Martin Lee, Ir., 387 Virgil Graham Mims, Ir., Raleigh, N. Car. Ray Jack Queen, Morganton, N. Car.

389 Charles Mauck Rice, Candler, N. Car. 190 Seaton Norwood Richardson, Norfolk, Va.

Alston Warren Stafford, Ir., Asheville, N. Car. William Bonner Thompson, Aurora, N. Car.

James Marcus Yorke, Jr., Fayetteville, N. Car. SIGMA

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Ohio Leroy Van Hedges, Portsmouth, Ohio Raymond Corwin Warren, Columbus, Ohio

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William W. Doxey, Jr., Ozone Park, N. Y.

Andrew William Curr, Syracuse, N. Y. 422 423 Jay Earl Endres, Howard Beach, N. Y. Robert Burr Flickinger, Aurora, Iowa

425 William Charles Franklin, Syracuse,

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Manuel Ingallinera, Syracuse, N. Y. Alfred William Johnson, Jr., Baldwins-

ville, N. Y. Julian Kopka, Syracuse, N. Y.

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Thomas John Regan, Jr., Syracuse, N. Y.

Harry Walter Schmitz, Camillus, N. Y. Edward Richard Stickel, Newark, N. J. 440

UPSILON Raymond Wilson Branton, Little Rock,

Ark. Clayborn Jefferson Burleson, Jr., Little

Rock, Ark. George Richard Carson, Benton, Ark. Edwin Clement Cox, Jr., Pocahontas,

Ark Bruce Holmes Estes, Hawesville, Ky.

Homer John Hanna, Loring, Kan. 281 Harold Thomas Hamilton, Glenwood, 282 Ark.

Robert Luther McAninch, Little Rock, Ark.

Robert Davis McCallum, Newport, Ark Arthur Eugene Ray, Hot Springs, Ark 285 William Eugene Shook, Kingston, Penn

lames Alvin Vizzier, Gillett, Ark. 287 James Hampton Wiseman, Jr., Searc, 288

Ark. Corley Price Senyard, New Orleans

Ray Albert Barton, Lakewood, Ill. 290 William Curtis Dempsey, Jr., West

Helena, Ark. Elbert Augustus Henry, Jr., Little Rock, Ark.

William Allen Beard, Fort Smith, Ark. 294 Omer Cole North, Fort Smith, Ark.

Charles Gordon Skillern, Fayetteville, Ark.

296 William Delbert Bright, Fort Smith, Ark. Wiley Washington Murrell, Jr., Mam-

moth Spring, Ark.

Richard Ernest Anderson, Little Rock, 298 Ark. Floyd Bunker Sessions, Lake Village,

Ark. 300

David Herbert James, Pocahontas, Ark. 301 Gary James Powers, Hot Springs, Ark.

302 James Robert Bissett, Junction, Texas Calvin Kingsley Clauer, South Bend,

Ind. Howard Richard Corry, Long Island,

Robert Lee Hartman, Lafayette, Ind. Steve William Manich, Whiting, Ind. 244

Robert Alan McGlasson, Louisville, Ky. Robert Jean Comparet, Fort Wayne,

247 Edmund Luckas Cleveland, Ohio 248 Gerald Eldon Lahrman, Fort Wayne, Ind.

Andrew Albert Lesko, Whiting, Ind. Frank J. Miller, Whiting, Ind. Robert Joseph Ustanik, Whiting, Ind.

Raymond Elliott Zirkle, Ir., Chicago, III.

CHI Andrew Paul Besich, Superior, Ariz. Robert Bruce Clelland, Tucson, Ariz.

Robert Chapman Hall, Clifton, Ariz. 326 James Alfred Kline, Prescott, Ariz, John Francis Muse, Tucson, Ariz.

Robert Lee Norton, Phoenix, Ariz. 328 John Finley Pfeiffer, Jr., Tucson, Ariz. Vinton Douglas Pierce, Tucson, Ariz.

Theodore Harry Rowcliffe, Taft, Calif. John Quincy Adams Wickham, Cleveland, Ohio

James Richard Williams, Globe, Ariz.

Charles Arentzen, Billings, Mont. Roger Coles Rice, Beverly, Mass. Merle Wayne Emmert, Polson, Mont. Marion Sumner Davenport, Anaconda,

Mont. 245 Wallace Clifton Love, Butte, Mont. OMEGA

Vernon Lloyd Abild, Wakonda, S. D. Frederick Alan Beeman, Winner, S. D.

Robert Jack Ballmes, Sturgis, S. D. Robert Leroy Burns, Rapid City, S. D. Arthur Martin Colvin, Rapid City, S. D.

286 Ralph C. Flow, Lead, S. D. Robert James Flanagan, Albion, Neb. Douglas Winston Fuerstenau, Rapid

John Alvin Garnder, Kennebec, S. D. Herman George Haase, Leola, S. D.

Kenneth Howard Hammill, Coronado, Alfred Dale Jurrens, Custer, S. D.

Henry Lawrence Hurley, Deadwood,

Russell Thornton McIntire, Fruitdale, S. D.

295 Joseph George Maierhauser, Gayville,

296 Howard Chester Peterson, Alpena, S. D.

- Hrone Socrates Makredes, Sioux Falls,
- Robert Vernon Phipps, Rapid City, S. D. 299 Albert Daniel Schmidt, Alpena, S. D.
- Harvey Walter Taylor, Rapid City,
- Nickolas Schmitt, Harrold, S. D. Harold Earl Martin, Presho, S. D.
- John Wesley Willard, Sr., Madison, S. D. GAMMA BETA
- 190 Matthew Flato, Washington, D. C. John William Glessner, Washington,
- D, C. Robert Charles Koche. Washington. D. C.
- 191 Merritt Downing, Arlington, Va. 194 Charles Andrew Appel, III. Washington.
- D. C. Norman Richard Miller, Washington,
- D. C. 196 Claude Chester Dimmette, Ir., Washington, D. C.
- 197 Burr Latta, Arlington, Va. 198 William Robert Sutherland, Santurce,
- Puerto Rico 199 Glen Handy Ballowe, Lynchburg, Va.
- D. C.

- Walter Harvey Cole, Jr., Washington, Matthew Steele Polk, Vicksburg, Miss,
 - DELTA BETA James E. Allen, Louisville, Ky. Larry Earl Hedrick, Sevierville, Tenn.
 - 188 Donald K. Reccius, Louisville, Ky. lack Simon, Louisville, Ky
 - 190 Irvin Waldman, Louisville, Kv.
- Harry Andrew Bryan, Louisville, Ky. Owen Newton Schuster, Louisville, Kv.
- Robert Wilford Tetter, Oak Park, Ill. John Herbert Ahrens, Olny, Ill.
 - Chester Louis Meyer, Louisville, Kv. Edward Earl Green, Franklin, Kv. 196
 - 197 Robert Norman Hurst, Louisville, Kv. Wilcomb Arthur Benfield, Providence, RI
 - Donald Comley Brown, Bloomington,
- 200 William Havens Berry, Jr., Louisville, Ky.
- Garnett Logan Wade, Jr., Louisville, Ky. John Seymour McBrayer, Louisville, Ky. James Milton Boswell, Louisville, Ky.
- 204 Glenn Lee Adams, Corbin, Ky. 205 George Alfred Cracraft, Louisville, Ky.

Albert David Tinkelenberg, Washington, 206 Phillip Hammond Pfeifer, Columbus,

An efficiency expert stalked into a Washington office. He walked up to two clerks and asked the first, "What do vou do here?"

The clerk, fed up with red tape. buck-passing, forms, office politics, and above all, efficiency experts, answered, "I don't do a thing!"

The efficiency expert nodded, made a note, then said to the second clerk, "And what's your job here?"

The second clerk, a fellow sufferer. said, "I don't do a thing either."

The efficiency expert's ears perked up. "Hummm," he said, "duplication!"

The absent-minded prof drove up to his garage, looked inside, blinked. and then leaped to his car and sped to the police station.

"Officer!' he cried, "my car's been stolen!"

The wife smiled at her husband when he got home from the office. "Poor darling!" she said. "You must be hungry. Would you like some tender chops with golden-brown potatoes and green peas, and mushrooms on toast?"

"No, darling" said her husband, "let's save money and eat at home."

It happened at one of those neighborhood movie houses. One evening an anxious mother rushed up to the ticket taker and cried, "Did you see a little boy come in this theatre at noon today? He had on a sweater and red cap."

The attendant thought a moment. "Yes, he came in at noon-he's in the first row."

"Do you mind," smiled the mother, "giving him this package? It's his supper."

Letters from the Chapters

Alpha Float Makes Front Page



chapter house

like to extend a hearty greeting to all of our alumni and to invite any and all members of Theta Tau to visit us when they are in town.

At present two Omega alumni are living at the while continuing their studies.

Alpha chapter would

chapter house was given the final touches in its internal face lifting by having new furies installed to match the interior decorating scheme of the house. All of the members are extremely proud of the work that has been done. As yet we have not without members are extremely proud of the work that has been done. As yet we have not "hirtown" any parties such as shown in the "hirtown" any parties such as shown in the Theok" magazine under the caption of "Offi Campus Capters at the University of Minnesova," to true out said furnitume. I have year





Alpha Activities

Dan Donovan, Omega '41, is the house counselor and is taking graduate work, while Larry Breik, Omega '43, is studying law. During the late spring and summer the The enclosed picture of Theta Tau's float



Alpha Chapter House

for "Engineers' Day 1948" was based on the theme of the above party and labelled "Theta Tau's Partyless Beach." The float was of such a nature that it made the front

page of the Minnesota Daily.

At the end of the spring quarter the chapter had a banquet in honor of the graduating Theta Taus of the school year 1947-48. Walter Manson was toastmaster and the graduating brothers provided the entertainment in the form of farewell speeches. After the banquet we adjourned to the house where there was dancing, singing, and mock gambling to entertain the guests. A roulette wheel was set up in one of the rooms and the guests proceeded to lose their money, which was previously supplied to them by the crouper in orded that we might not violate the anti gambling law. The picture enclosed of the interior of the house was taken at this party. The distinguishable guests are Dick Moor and Gary Witt, seated, and Harriet Schmidt and Harry Swanson, Miss Schmidt is one of the better looking and vounger instructors in the University of Minnesota Aeronautical Department.

With homecoming and Halloween coming on the same day, the active members are rather busy planning an open house and celebration. All alumni will be cordially entertained in the hest manner that we can accomplish. The chapter house of course, will be decorated under the Halloween theme with corn and the rest of the incredients.

We all hope everyone enjoys himself. At present the chapter members number 29 and we have about 9 good prospective members. The pledge class has not been officially chosen at this writing but the new

pledges will be lined up and ready to go in about two weeks.

The chapter officers are: Robert Reiss, Regent; Walter Manson, Vice Regent; Alvin Mathy, Treasurer; Elwood Rafn, Scribe; Robert Anderson, Corresponding Secretary and Paul Slight, Historian, The faculty adviser is Professor Ruszja, and as mentioned before the house counselor in Dan Donovan.

> Yours in H & T, Robert W. Anderson. Corres Sec.

Beta Active In Pledging

With the coming of spring. Beta chapter held its forty-second annual spring banquet at the Hotel Scott commemorating the establishment of a chapter of Theta Tau here on Tech's

campus. Dr. las, Fisher, Secretary of the Michigan College of Mining and Technology

Spring elections were held the 10th of May with the following men becoming the new officers: Bob Pierce, Regent; Mel Bunting, Vice Regent; Dale Doerr, Treasurer; Ken Kueny, Scribe; Dan Ewing, Steward, Profes-sor L. F. Duggan remains as our Faculty Adviser.

On May 29, the annual Spring Formal was held at the Onigaming Yacht Club with the music provided by Brother Harry Day



Beta's Annual Spring Dance

Alumni Association, gave an interesting and and his Starliners. This was farewell to factual talk on the ways and means of twenty-four members who will be missed financing the erection of the Union Memorial many times in the future. Building on campus.

The following Monday, being Memorial

Day, was celebrated with a picnic for all members, pledges, and their families at Fort Wilkins State Park.

During Spring Quarter two initiations were held bringing into Beta chapter thirteen outstanding men. Those initiated were R. Dunster, K. Spooner, R. Witte, R. Lovell, V. Miklas, F. Tervo, J. Gartett, R. Harris, H. Zanoni, C. McKereghan, J. Long, J. Post, and D. Sleeman.

The remainder of Spring quarter was spent in battling it out for the intramural trophy. The fight was close but the H & T's were to be satisfied with second place. The coming year promises to see Beta regaining the crown under the leadership of intramural manager.

Burd Hikes.

Beta is once again well represented in the honor societies with E. Snyder J. Cleary, B.

Hikes, D. Ewing, and T. Freas elected to Blue Key and J. Klungness and D. Ewing elected to Tau Beta Pi at the spring elections. During the summer the house was home

to just a few brothers, but with fall term upon us we are once again at full strength. We have at the present time an outstanding group of pledges anxiously awaiting fall initiation and the ever joyful week of probation. Those recently welcomed as pledges are D. Hall, F. Drummond, H. Lundstrom, T. Bessemer, M. Stuk, D. Livingston, A. Walters, C. Rivard, and N. Ainslee.

We are now in the midst of plans of remodeling our chapter room and hope to have it complete by Winter Carnival time. As is our custom we will hold a bander commemorating Founders' Day on October 15 at the Horel Scott. H. Day will give a short talk on his trip through Europe this past summer.

This concludes the highlights from Beta chapter. Fraternal greetings and sincere wishes to all members and chapters of Theta Tau. Yours in H & T,

Mel Bunting, Vice Regent Ken Kueny, Scribe

Gamma Hears Two Practicing Engineers Each Month

GOLDEN

Gamma chapter is anticipating another grand year with Regent, Joe Jackson; Vice Regent, Chuck Dunn;

Scribe, John Cowan; Treasurer, Jim Pittenger; Marshal, Dick Arnold; and Outer Guard Pat Mercier. Dean Signer is again ably advising our twenty six active members.

The all plodge class has seven members including Eugens Hudson, an outstanding member of last year's wrettling team from Lake Wales, Floridy, Marvin Easte, the sports editor of the Ortoligger, the school paper John Petrocco, a footbill letter man; both John and Mirven are from Golorado, Wilster from California; Jack Bell, Done of the California (Laboratoria Laboratoria) and leaders of campus activities make up the rest of the plodge class.

Our annual soft ball game with the "Sig Gams" on the Mines campus ended in victory for us, although they played well. It was a good time for every one and drew a large crowd of spectators.

Dick Arnold, our all around athlete, was awarded the John Mason Certificate for outstanding athletic ability and performance. Dick wrestles, catches for the baseball team and was an all conference guard last fall. Chuck Irish was elected as "King Tau Beta," a distinguished title given to the honor man of the junior class,

John Dascovitch had a serious automobile accident last May, but is now on his way to recovery. He was unconscious for several weeks and it still listed as a critical case as his die it still paralyzed. John's head will be on the mend for 18 to 24 months. He is in the Fort Logan Veterain's Hospital at

The chapter is intending to have its annual burro race and polo game at Homecoming this fall. We are also handling the bonfire for the Homecoming festivities.

Our meetings will be enlivened again this fall by several guest speakers who are practicing in the mineral industries. Our program calls for two each month at present.

Our alumni mail bag has not been up to par this summer but by the time the next issue of the Gear appears we expect to be able to pass on a good bit of news of our brothers. We would appreciate hearing from our world scattered brothers.

The Gamma men are awaiting the publication of the Gear so that we may know more about the activities of the other chapters. Yours in H & T.

Charles Fitch, Corres. Sec.

Delta Checking Up Alumni File



Reinker Treasurer, Tom Rogers Corresponding Secretary, Jack Norlin Inner Guard, and Bob Miller Outer Guard. New heads of Committees are Jack Norlin Social Committee, Tom Lisy program, and Ralph Franklin Parking on Case campus. Always ready to advise these men is Professor Leslie Reardon, chapter adviser.

The parking situation on Case campus has been handled by Theta Tau for the past two years and again this semester was very efficiently handled by brother Franklin and his committee.

Many other places of distinction on the Case campus are occupied by the brothers of Delta chanter. Among these are Brother Lisy, dent of June Senior Class, Brother Weber,

president of January graduating class. In Blue Key, Brothers Churchill, Tanger, Rogers, and English are president, vice president, secretary, and treasurer, respectively.

On the athletic score Brother Miller is cantain of this year's Case eleven. Assisting him as members of the first string from Theta Tau are Brothers Neubecker and Zohn, Brother Churchill again assumed his position as Case speedster on the cross country team.

October 19 has been the date selected for Delta chanter's observance of Founders' Day. It will include a banquet at Case's Phi Delta Theta Fraternity house with a fine program planned: all alumni are invited.

A coming project for this fall is for Delta chapter to completely check over the alumni list and bring it up to date as to addresses and places of employment. This is in an effort to develop a closer contact with the alumni-

We are now looking forward to rushing prospective members and all in all it looks to be a very active semester for Delta chapter. Yours in H & T,

Tom Rogers, Corres, Sec.

Ensilon Holds Bi= Weekly Luncheon



providing food. Jack was appointed by Regent Hal Boyd. Vice Regent this semester is Malcolm McDonald. The other officers are Tom Gay, Treasurer; Louis Briggs, Scribe; and Vic Hollister, Corresponding Secretary, Chapter adviser is Howell Williams, chairman of the Geology Department.

The chapter enjoyed an active spring semester which was highlighted by a picnic and a game of touch football. Casualities included Treasurer Tom Gay who sustained two cracked ribs and numerous others with sore muscles. The picnic scheduled for this

semester is to include more tame recreation. The chapter includes 22 actives and 26 pledges. The actives and pledges met together for the first time on Founders' Day to hear Dr. Ralph Chaney of the Paleontology Department speak on his recent trip to China, In addition to the Founders' Day smoker and a picnic, tentative plans for a banquet and dance have been made.

Brother I. N. Pike, alumnus of Xi chapter, is now working in Richmond and was guest at the Founders' Day smoker. Thus far this semester we have heard from but few alumni. Bob Plumb is doing geophysical work in Bakersfield. John Truchot is working in geology in the wilds of Wyoming. George Metcalfe and George Simpkins are both working for Anaconda in Montana. Loren Angel is doing field geology near Paso Robles, Cali-

Yours in H. & T.

Vic Hollister, Corres, Sec.

Zeta Off To Good Start The following is Zeta



Chapter's fall entry for the Gear. Professor G. W. Brad-

shaw, chairman of the K. U. Civil Engineering Department is still the ramrod of Zeta chapter. Under his experienced chapter advisership Zeta is progressing splendidly. To keep things on an even keel are the following chapter officers: Dudly Hanstine, Regent; Bill Bergman, Vice Regent; Robert Greenwell, Scribe;

Jack White, Treasurer; and Edward Hensen, Corresponding Secretary.

The schedule of initiation has been slightly revised here. To insure whole-hearted support by both pledges and actives, initiation week has been changed to the first of each new semester. It seemed to be an excellent idea this semester and initiation was a gala occasion, Those included in the formal initiation on Sunday, October 17, were Joe Reid, Robert Wahlsted, George McNeish, Dick Harris, and Dick Rumpf.

Formal initiation Sunday served as a dual occasion since it fell on October 17. Founders' Day was celebrated at the same time and about 15 alumni and their guests were here for the occasion. Brother John R. Wahlsted, '21. was a very welcomed quest for the occasion. He celebrated his son's initiation and Founders' Day by bringing his wife and a huge ham along, Mrs. Wahlsted proved her worth as both a cook and a charming guest.

The new pledge class for this fall includes the following: Duane Crowl, Tom Brune, Harold Wolfe, David Webber, Tom Oliver, and Charles Walker. Since there are possibly one or two more spaces in the house the livewire rushing chairman, Bruce Pennington, is still bringing over prospective pledges for an evening meal and an informal talk session. A good list of prospective pledges was obtained last fall when the honor roll freshmen students were invited to the house for a smoker and a talk by Dr. J. O. Maloney.

In the K.U. Engineering School, Theta Tau is still firmly established. Fred Gartung is editor of the Kansas Engineer and on his staff are Curtis Ottinger and Bob Wahlsted, Bruce Pennington is the spark plug of A.S.M.E. in its first of the semester functions and Leonard "Chu Chu" Richards represents us on the engineering council.

Theta Tau here has a good membership list in Tau Beta Pi, Sigma Tau, and Pi Tau Sigma. Besides a good membership list we like to boast of Fred Gartung as president of Tau Beta Pi, Robert Tally as vice president of Sigma Tau, and Francis Van Benthem as vice president of Pi Tan Siema

The following alumni are in the graduate school of K.U.: Jesse Gamber and Edward Hansen as mechanical engineers, Joe Beeler as an engineering physicist, and Charles Barr as an architectural engineer Besides these men who are all full or part time instructors are student instructors Jack Bruyr and Bill

Social life at Zeta isn't being neglected because the social chairman Curtis Ottinger, just won't quit working. At present he is working on plans for a party or social event of some kind to take place in the near future. We're not expecting anything like our Big "Red Doe" party of last spring but we expect it to be good for a few laughs.

Yours in H & T, Edward P. Hansen, Corres, Sec.

Iota "Swines a Lot of Weight"

This year marks the

32nd anniversary of Theta Tau upon the Missouri School of Mines

graduate.

campus. It is pleasant to note that Theta Tau by the social fraternities hereabouts for this engineering organization contains the top men from their ranks together with many of the "wheels" who spark the various independent groups. Naturally such a combination "swings a lot of weight"

in these parts and Theta Tau continually has a hand in molding much of the campus lota chapter ever strives to limit its membership to 40 men (as stipulated by the Constitution) however, returning veterans have swelled this year's total to 44 actives. Enough pledges are selected at the end of each semester to replace the actives who

The officers are: I. G. Reilly, Regent: T. P. Wirfs, Vice Regent; R. E. Schowalter, Treasurer: H. Telthorst, Marshal: R. I. Steemeier, Scribe: H. N. Johnson, Corresponding Secretary: E. L. Dougherty: Inner Guard: I. D. Crites, Outer Guard.

This semester's activities have centered about our Freshman Award program which honors the twenty outstanding members of last year's freshman class with public recognition and certificates from this chapter. A Theta Tau plaque commemorating the World War II dead of this chapter now hangs in a conspicuous position in our administration building.

The social committee is rounding out a series of get-togethers, banquets with speakers, and many other events. Our annual news letter is being formulated by a few of our more-ambitious pledges. A replica of our fraternity pin was Theta

Tau's striking contribution to the St. Pat's parade last spring. The gear was 20 feet in diameter, and the entire structure was done up in green, gold, and white (plus red garnets).

The outstanding summer success was Iota's

first coeducational picnic and beer-bust. All members are crying for a renear



Summer Session Picnic at Iota

Iotans who enjoyed the Senior Trip last year have insisted that mention be made herein of the splendid hospitality and friendship exhibited by Psi chapter who entertained the Miners on their visit to Butte, Montana. Our fellows were once again struck by this fraternity's national score

lota chapter extends its sincerest fraternal greetings to all its alumni and to all brothers of Thera Tau. Yours in H & T.

> Harold N. Johnson, Corres. Sec.

Lambda Host To Regional Meeting



Greetings and best As the success of last SALT LAKE CITY year's well-rounded program becomes history, we predict an eventful year for Lambda chapter. Lambda's Professional and Leadership Develop-

ment Program climaxed a successful year with a panel discussion on "Is the Present Engineering Curriculum Obsolete?" The speakers were industrial and educational leaders. The response from the audience supported the choice of topics. The Professional and Leadership Development Program which has been promoted through the interest of our faculty adviser, Grand Outer Guard George W. Carter, is being expanded for the coming

Last spring's social calendar meant a lot of fun for all of Lambda's members. The highlight was the Spring Formal that was held in the Gold Room of the Newhouse Hotel. No one missed the annual steak fry

Lambda chapter became better acquainted with the convention delegates. The delegates included Bob Williams, Bill Oliver, and Guy Ruggles from Chi Chapter at the University of Arizona; Bruce Emerson from Psi Chapter at the Montana School of Mines; Mary Peterson, Don Schoessler, Ernest Schmidt, and Robert Johnson from Omeea Chapter at the South Dakota School of Mines; Bob Piper, Bob McMinn, and Phil Peter from Gamma Chapter at the Colorado School of Mines: Hal Boyd from Epsilon Chapter at the University of California; Bill Forcht of Lambda Chapter, Ernest Klepetko, President of The Intermountain Alumni Association, was guest speaker at the closing banquet. His remarks on "Citizenship With Reference to Engineers" will long be remembered.

The officers for the coming year are Bill Forcht, Regent; Jack Lewis, Vice Regent; Kay Olson, Scribe; Craig Roberts, Treasurer; and Gordon Gottstein, Corresponding Secretary.

Although many of last year's active members graduated last June, there are at present



Regional Meeting at Lambda

that sent us to the cool of our mountains

after the heat of the final exams. Through the Regional Convention's business sessions, banquets, and smoker, the fraternal bonds of Theta Tau were strengthened as 25 actives in Lambda chapter. And there is a pledge class of ten men. Our present activities include plans to investigate the possibility of obtaining a Theta Tau Room in the proposed new Student Union Building.

Lambda chapter extends best regards to all members of Theta Tau

Yours in H & T. Gordon Gottstein, Corres, Sec.



Regional Meeting Banquet at Lambda

Mu Adopts "Big Brother" Plan Mu chapter sends its



greetings to all chapters of Thera Tan. Our new officers are as follows: Regent, Cade Verner; vice Regent, Foster Stough; Scribe, John Bray; Treasurer, Winston Wallace, Corresponding Secretary, Daniel McBeth, Our chap-

ter adviser is still Professor James M. Faircloth. We now have 51 active members in the

chapter, 17 of whom were added to the rolls in the last initiation, which took place in We have discovered that all our honorary

is planned that the chapter will have a banquet in their honor. The date has not been decided upon

Mu chapter is cooperating with St. Pat's Engineering Association and the technical societies on the campus in the "Big Brother" Plan, which was suggested by St. Pat's. Briefly, the plan is that upperclassmen each meet several freshmen during the registration period, escort them around the campus, and assist them in any way possible, especially during their first few baffling weeks at the University. There is hardly need to note that such a plan follows exactly the aims and traditions of Theta Tau.

> Yours in H & T, Daniel P. McBeth, Corres, Sec.

members will be on the campus this fall. It Xi Developing Strong Chapter



Our ranks have increased since our last letter to The Gear. On May 15 cieht new men entered our chapter as brothers, and although the June graduation thinned our ranks somewhat, we now stand at 32 active members, 6

ber reported to you. The initiation, that took place on May 15, was held at the Park Hotel in downstown Madison. The banquet, which followed, was highlighted by an address by Mr. Werner, a Madison patent lawyer, who spoke on

"Patent Law as Applied to Engineering." New officers were elected following the banquet. These men are now the present

officers of Xi chapter: David A. Mickelson, Regent; Donald A. Plautz, Vice Regent; Joseph R. Vinette, Treasurer; and Robert O. Schindelholz, Scribe.

Since the start of the fall semester, several business meetings have been held and committee reports indicate an interesting future in the activities of the chapter. Of course, October 15 was the date of our latest event of outstanding significance, the Founders' Day Banquet, that was held on that date at the Hoffman House, Professor Harold A. Peterson, Omicron '32, Chairman of the Electrical Engineering Department here at Wisconsin, was the feature speaker. His talk dwelt on the ethical responsibility of an engineer. Dr. G. A. Rohlich, our faculty adviser, spoke a few words and announced the acceptance of the chapter's invitation to Dean M. O. Withey to become an honorary member of Theta Tau. Dean Withey is the head of the College of Engineering and was a guest at the banquet. Roland Black and James A. Polzar, Alumni, were also present at the eathering.

Our athletic activities have begun for the new school year with the chapter winning its first bowling match several weeks ago. We hope to continue in that respect. Four men are in the process of becoming pledges to our fraternity. We hope to have a number of others before actual pledging is carried out.

Xi chapter wishes to extend its good wishes to all for a successful school year to come. Yours in H & T,

Robert St. Clair, Corres. Sec.

Omicron Establishes Achievement Award

Omicron chapter is busily engaged in its fall semester activities. Officers for the fall semester are: Regent, Richard Ki d d; Vice Regent, Charles Lazenby: Scribe, Bob Newton; Trea-

surer, Bill Stratman; Corresponding Secretary, C. M. O'Day.

The rushing and pledging program is in full swing. A rushing party was held on

full swing. A rushing party was held on October 8 in the Globe Cafe at West Liberty. The chapter is pledging twenty very promising men. Initiation ceremonies are planned for December.

During the past year Omicron Chapter established 3 Theat Tau Achievement Award which will be awarded each year to the outstanding student in the College of Engineering. The award is given on the basis of achievement, activities, scholarship, and popularity. The 1948 recipient of the Thrat Tau Award was Brother Mark Meier, E.E. '49. Omicron chapter celebrated the 44th

Award was Brother Mark Meir, E.E. 49.

Omicino chapter celebrated the 44th Founder? Dry by Ishdian a brouget at the Founder Dry by Ishdian a brouget at the Founder Committee of the Standard Engineering Co., was the principal speaker. Brother Strategy are a most impring talk on the Professional and Social Aspects of the Engineering Profession. He posterious the good for a single national engineering organization and the public recognition of the profession and the

problems of obtaining equitable compensation for their endeavors.

The following Omicron alumni were present at the banquet: Brother Paul Mercer, '21, the co-editor of the Gear, Brother Ned Ashton, '23, the Chapter's adviser; Brother Ned K. P. (Jack) Boyles, '27; Brother Bob Hatcher, '48. We received letters from most of our brothers who could not be with us at the hannuet.

The chapter extends its warmest greetings to all our brothers.

Yours in H & T,

C. M. O'Day, Corres. Sec.



Omicron Pledge Class Front: Orlish, O'Day, Cocayne, Peterman, Griffith

Back: Nichols, Klein, Sanderson, Stratman, Clancy, Hunstad

Pi News Letter Great Success

UNIVERSITY when at full strength and with great expectations for a grand fall ession. Seventeen brothers attended the Summer

Session and staged a mid-summer picnic at Lake Sherando which was highlighted by a gift from Honorary Brother Oglesby consisting of over one hundred ears of Golden Bantam Corn. Prior to the close of the Spring session Pi held its annua picnic at Brother Oglesby's farm.

October 23 is Homecoming Weekend and promises to be a gala occasion for Pl. Friday might is the time of the Engineer's Ball, co-sponsored with our local rivals the Trigons, and announcements were sent to all our alumni. Saturday offers the informal initiation of our pledges, who will save seats for all our brothers at the football game with VMI. The formal initiation will follow during the





Spring and Summer Outings at Pi week. Our pledges have had the gall to challenge the brothers to a football game for

the same ante we post on our annual "Toilet Bowl" game with Trigon Society. A new ruling on these games has been passed. From now on the ante (one keg of beer) will be consumed after the game instead of during it. Providing any brothers are still in Engineering school after these festivities, future entertainment will be planned.

Our News-Letter of last spring, the first in some years, met with great success. We received cards from brothers long lost to the flock. Many are listed in this issue's Alumni Notes. We also received very pleasant cards from Rho and Gamma Beta chapters.

Pi now has 37 active brothers and 18 pledges. Seven brothers are now on the faculty of the Engineering school, the latest addition being Kenneth C. Rathburn, '42. The present officers are: Regent, Charles Quarles; Vice Regent, John Cofer; Treasurer, Shifty Shanks; Scribe, Jack Parker. The faculty adviser remains Dr. Lawrence R.

Pi closes by sending its warmest regards to all brothers of Theta Tau.

Yours in H & T, Wallace S. Lippincott, Corres. Sec.

Rho Strong for Regional Meetings

Rho chapter lost



some faithful men last Iune when fifteen members including our entire staff of officers, were graduated. We partially compensated for the loss by initiating ten new men before the term was over. The new men are: J. M.

New officers elected in the spring term were: E. C. Hunt, Regent; S. G. Flannagan, Vice Regent; S. T. Wiggins, Treasurer; K. C. Link, Scribe; and Ben B. Stockard, Jr., Corresponding Secretary. At the present time our chapter strength

is 28, but we are making plans for an initiation during the next month to bring



Spring Iniation at Rho

Jorke, V. G. Mims, J. M. Lee, Jr., R. D. Dillender, W. B. Thompson, A. G. Demko, W. A. Stafford, R. J. Queen, C. M. Rice, and S. N. Richardson.

us up to our quota-Professor T. C. Brown is still doing an admirable job as our faculty adviser, but there is nothing definite to report as yet.

Before the spring term was over Rho chanter took another inspection sein. This enapter took another inspection trip. This Machinery Company in Durham North Caroline The common makes much of the sure matic equipment used in cigarette manufeaturing The same mer many inclusion We started at the drafting room and followed the productions until they were ready to be

shipped out The rarios rarm around to be a very active one for many members of Rho chanter. S. T. Wiggins, S. G. Flannagan, R. T. flood. Ir. and C. M. Stallings were initiated into Tau Bern Pi A C Brock was elected editor of the Technician our local weekly newspaper Mu Bera Pei a national honorary music fraternity elected C M Rice as president C. M. Stallings is the head of Fra Kanna Nu an electrical engineering fraternity R T Lloyd Ir is the new president of Pi Tau Sigma. One of the new members, I. M. Yorke, is leading Tau Beta Pi at N. C. State. V. G. Mims, another new man was elected treasurer of the campus government in the enring alassians

Rho chapter was represented at the regional convention last April by F. C. Hunt Recent-R. C. Hinkle, Past Recent: W. M. ClarkK C Link: and S G Flannagan. This was the first convention attended by the majority of and delegated attended by the majority foliar share assessment of this tops do reening that conventions of this type do into a national organization

Phi Pri a national reveile fraternity: Alpha Zera an agricultural fraternity; and Rho chapter are joining forces again this year to out over our annual his dance. The date is not set as yet but the dance will probably he during the winter term.

There has been no news from our alumnibut we do know that N. S. Ireland, and D F Lefler better known to Rho chapter D. F. Leffer, better known to kno chapter as "Scotty" and "Dewey", were married shortly after graduating. To clear up any misunderstanding the hoys did not marry each other

I am sending a group photograph of Rho chapter that was taken last May at our spring initiation

We of Rho chapter wish the hear of luck to the other chapters of Theta Tau during the coming year.

Yours in H & T. Ren B Stockard Ir Corres Sec.

Sigma Moves into New House

Afras many manche of silence, Siema Chapter is once again on the ball and things are beginning COLUMBUS to roll. By the time this letter is published we оню will have an active mem-

bership of 26 men and a pledge membership of 3. This fall we moved into a new house located at 47 Sixteenth Avenue and as a result we are still in the process of getting settled. The house at present is not filled to capacity, but we hope to have this situation remedied by

the first of the year. Last week, Sigma chapter joined in with other chapters on the annual celebration of Founders' Day. Several alumni took advantage of the open house which we held on that day and dropped in to say "hello". It was turn our for this occasion. It is hoped that you Siems men who are no longer living in the vicinity of Columbus will drop us a line within the near future so that we might keen in contact with you also.

Since the fall quarter here at Ohio State is still comparatively young we have not had too many social functions. However, we have had a few get-together smokers and some excellent speakers at our dinner meetings. On November 20, which is homecoming day here at State, Sigma chapter is planning to hold its fall quarter formal at the Virginia Hotel. We will pass on more information about our growing chapter and activities in

our next letter to you. Sigma sends regards and best wishes to all chanters of Theta Tau.

Yours in H & T. F. W. Anney, Corres. Sec.

really encouraging to see so many of them Upsilon Issues Alumni Directory



As the 1948-49 school year gets under way, Upsilon of Theta Tau resumes its activity on the Arkansas campus. Although we remained active during the summer and kept our house open for the twenty men present, reopening of the fall term has brought the return of fifty active members and expanded activity can be expected.

At our election of officers held in June 1948, we elected the following: Regent, Ralph Stewart: Vice Regent, Glendon Bruce: Scribe, Clem Cox: Treasurer, Gene Meek: Corresponding Secretary, Leroy Brooks; Marshal, Dill McFarland; Inner Guard, Bill Shook; Outer Guard, Jim Vizzier; House Manager, Joe Gillespie.

At a special initiation held on Sunday morning October 3, 1948, Upsilon initiated Professor James R. Bissett as an homearry member. Professor Bissett is a member of the staff of the civil engineering department of the University of Arkansas. Brother Bissett has succeeded Prof. W. B. Steizner as our faculty adviser following Brother Steizner's our faculty adviser following Brother Steizner's retignation in June of this year.

We have recently accepted (subject to approval) the transfer of membership of Brother R. P. (Bud) Bridges from Lambda Chapter

Durine last summer, one of our outstanding projects was the compilation of an Upsilon Chapter Directory for 1948, Recent Stewart and Corresponding Secretary Brooks spent many hours and numerous three cent stamps trying to locate all of our alumni. However, the recent war has so scattered members that we were not able to acquire all of the desired addresses. We did. though, obtain a majority of the addresses and have completed the printing of the directory. If you have not received yours, you will in the near future. In case any Upsilon alumni know addresses of Upsilon alumni with whom we are not in contact, we would very much appreciate a letter from you. Also, if any name or address is incorrect please notify

We have received letters from several of our 1948 graduates and hope to hear from the others in the near future. Maclyn Mc-Keehan, outstanding engineer in the Arkansas School of Engineering for the class of 1948 has received a scholarship to M.I.T. and is now pursuing praduate work there.



Upsilon Picni

At present we have only two pledges who were carried over from last June, but we expect to issue bids to twenty men in the near future.

Our regards and best wishes for a successful 1948-49 school year are extended to all chapters and alumni.

Yours in H & T, Leroy Brooks, Corres. Sec.

Phi Picks Up the Ball Again

LAFAYETTE IND.

Our summer vacations have ended and we have all gathered at our chapter house again, ready for another school year full of good fraternity life. This year started with a bang. Faced with an early Homecoming

we set out immediately to put the chapter house in tiptop shape. The interior of the house was given a general painting and cleaning. We repaired some of the plastering, put a new ceiling on the kitchen, and built a new set of steps in front of our chapter

house.

Our Homecoming turned out to be a huge success. We had a large alumni turnout and we did our best to make their wist a pleasant one. In the Homecoming meeting Professor H. L. Solber, had of the School of Mechanical Engineering, was re-elected as President of our alumni susociation. Nick Thowkin of East Chicago, Indiana was elected as Secretary, and Professor G. P. Springer of the School

of Cril Raginering was elected as Trassure. In spite of the fact that four of our actives took marriage vows this summer Phichapter has a fall house of thirty-one members. See of these men are very recent initiates. Zarkle, Olympis Padis, III; and Balkon Reed, Frank Miller, Robert Uttanik, and Andrew Leon and Critical Critical Company of the Padis Reed, III; and Robert Williams. The Padis Reed, III; and Robert Williams. The Padis Reed, III; and Robert Olympis and Padis Reed, III; and Robert Olympis Reed, III; a

The four men married this summer were Bill Georges, Robert Shaw, Robert McGlasson, and Robert Longardner. Several other men in the house are engaged but as yet haven't given any dates for the happy day.

given any dates for the happy day.

We are well represented in the school of sports by Steve Manich, who is a halfback on the varisty football squad. Robert 'Barces' Hartman with his windmill punches will probably step in the ring again in the near future and try to slug his way to the campus middleweight boxing crown. The chapter as a whole is in three pitching





Phi Membership

in such interfrazenity sports as softball, bowling, touch football, and brukechall.

As for social events, our new social chairman, Bob Camparet, has several irons in the fire. Plans are being made for a novelty Halloween dance here at the chapter house. Bob has also obtained the Gridfron Room of one of the downtown hortels for our Christmas Formal on December 11. Incidentally Bob plays a precry hot xax in one of the

The faculty sponsor of Phi chapter is Robert Burnette who is on the teaching staff of the School of Electrical Engineering. Bob is a Purdue graduate and a former member of Phi's active chapter. Chapter officers who will carry through till spring elections are: David Whitcombe, Regent: James Rayburn, Vice Regent: Robert Stavenik, Secretary: and Robert Morrison, Tressurer. Edward Luckss took over Housemanager duties at the beginning of this semester and is doing an able job.

In closing, Phi chapter wishes to extend its sincerest greetings to all alumni and brothers of Theta Tau and express our hope that we all will have a good year of professional and fraternal brotherhood.

> Yours in H & T, James T. Rayburn, Corres. Sec.

Chi Slows Up Rushing Schedule



Chi chapter at Tucson
has all the signs again
of a fine year to come.
Chapter officers at this
time are Robert Williams, Regent; Guy Ruggles, Vice Regent; Bill
Oliver, Scribe; Jim Up-

church, Treasurer; Elmo Dickerson, Marshal; Arne Midgard, Jr., Corresponding Secretary; and of course, Professor E. S. Borgquist, chapter adviser.

Committees have been set up for various functions of the coming year, the first of which will be the annual Founders' Day Banquet. Chi is expecting another big turnout with alumni from far and near attending.

The next big event will be initiation of new members and the initiation banquer. These will be preceded by open meetings where informat latks will be given by outstanding persons in this locality. The chapter has decided to take more time this year in getting better acquainted with new men before final selection of thous to be initiated.

Chi chapter lost 21 members through graduation last May which leaves us with 25 actives. Listed below are those eraduated last May and their present location: R. Brown. Cal Tech: Roy Coulson, Allis Chalmers, Phoenix; D. Creighton, Bureau Reclamation, Sacremento, Calif.; Joe Dozier, Shell Oil Program on West Coast: R. Henderson. General Electric Program, Schenectady: L. Holmquist, American Bridge Co.: K. Hood, Central Arizona Light & Power Co.; D. Howe, California Highway Dept.; D. Lewis, Graduate Student of Univ. of Arizona: R. Ludden, Graduate work in Geology; R. Milligan, Milligan Motors, Prescott, Ariz.; R. Mills, Richmond Car Co.; E. Neilson, U. S. G. S. Grand Canyon; C. Nelms, Arizona Edison, Phoenix; R. Shull, Cal. Tech.; V. Soule, Oracle, Ariz.; R. Fei, Shell Oil Training Program; Ed Wood, General Electric Co., Schenectady.

That's all for now. Chi chapter extends to all brothers its best fraternal greetings. Yours in H & T,

Arne Midgard, Jr., Corres, Sec.

Psi Holds Big Rush Party

BUTTE of the Gear for the school year '48-'49, I shall take this opportunity for Pis Chapter to extend greetings to

all the officers and members of Theta Tau. Psi chapter, in the short time since school began, has been busy with a rush party attended by 82 men, the initiation of 18 members, voting on pledges, and the planning of the Foundert' Day dinner-dance.

Perforce O. A. Diagmax romains for this year as the faculty advisor. The chapter officers are Bruce Emerson. Regent; Jack Gentry, Vice Regent; Richard Lenn, Treas-cert, Marshall; Herb Kene, Inner Guard; Mary Calloway, Outer Ganz, Di chapter is very pleased to have placed che following, Son the San Frince, Periodost; Gentral Callonian, Son the San Frince, Periodost; Jimes Clement, Vice President; Bob Ritchery, Socretary; and Charlet Perelley, Deligates-at-

large.

On October 20th Professors E. S. Perry, O.
A. Dingman, and Curis Graversen read the
lectures to the following new innitates: Floyd
Boward, Anaconda, Mont; William Dunn,
New York, N. Y. Richard Douglas, Huntington Park, Calif; Robert Graham, Great Falls,
Mont; Robert Ingersoll, Los Angeles, Calif;
Marvin Johnson, Butre, Mont; Charles Presleve, Gardiner, Mont; Robert Riiches, Livleve, Gardiner, Mont; Robert Riiches, Liv-

ingston, Mont.; James Clement, Butte, Mont.; Edwin O'Connell, Flushing, N. Y.; Howard Banta, Ketchikan, Alaksi, Alfred Dimon, Hamburg, N. Y.; John Morgan, Roundup, Mont.; Joseph Novalk, Butte, Mont.; Donald Levandowski, Scockett, Mont.; Kussell Maurer, Long Beach. Calif.; and Arthur Moore. Arcadis, Calif. These men bring the total of active members in Pic Lotapter to 39.

of active members in Fis. Chapter the place of pledge the following members of Brazier, of pledge the following members of Brazier, of pledge the following W. Barth, D. Clark, T. Bramowski, R. Evenson, J. Eastlick, E. Gren, A. Gordon, C. Greenough, R. Garwood, C. Hewitt, G. Mattson, A. Rey, D. Ross, F. Spellman, S. Slosson, H. Sherburne, L. Sells, F. Vorell, T. Vogt, and E. Wällner.

Now, he is look at the extra-curricular of social side of pic chapter. The chapter has had to set November 7 as the day of the Founder' Day affinered-duce because of precising conflicts on the school calendar. The diamer-duce will be held in the Silver Bow Room of the Finlers Hard. Invitation and the state of the school of

is scheduled to start in the near future.

The members and pledges of Psi chapter
wish continued success to the other Theta
Tau chapters, alumni, and the Executive
Council.

Yours in H & T, C. R. Barnes, Jr., Corres. Sec.

Omega Big And Strong

RAPID CITY

Greetings to the Gear Staff and to the other chapters of Theta Tau. Omega begins this year with bright prospects for a successful

continuation of active fraternal life on the campus of South Dakota School of Mines and Tech. The chapter distinguished itself last year as being one of the more active organizations on the campus and we are certainly going to do our utmost in realizing a similar soal in this comine year.

At the present sime we have 43 active members and 18 pledges. We will lose 24 men this spring through graduation, and are initiating an active program in a search for qualified men capable of carrying on the traditions of our great Fraternity.

By virtue of graduation the following names have been stricken from the active role this year: Mike Higgins, Bud Bannick, Owen Shay, George Schmidt, Marvin Peterson, Paul Lamont, Marvin Heck, Richard Wilmarth, Bill Elliott, Hal Udager, Byron Strandel, Warren Withee, Bob Jones, and Cliff Flirio.

At the election of officers last year the following members were chosen: Regent, Don Schoessler; Vice Regent, Pat Franke; Scribe, Keith Collins; Treasurer, Hans Jensen; Coresponding Secretary, Glenn Hansen; and Chapter Adviser, Professor J. O. Kammerman.

Chapter Adviser, Protessor J. U. Sammérmán, Omega chapter was represented at the regional conference at Salt Lake City by brothern Don Schoesiler, Frenes Schmittin, Bob Johns the Gupter upon the business of the conference, and were greatly impressed with the hospitable welcome of Lambda chapter, both to the conference, and were greatly impressed with the hospitable welcome of Lambda chapter, both to the conference.

This fall finds the financial condition of the chapter in tip top shape. Last year a sizable portion of the debt upon the house was retired and a great many improvements were made. Projected plans for this year call for similar improvement of this item of chapter property.





Omera's Annual Banquet

Dr. John Willard and Mr. Harold Marrin our newly elected honorary members, have amply demonstrated their interest in the fraternity by lending their full support in all fraternity activities. Omega carried off the lion's share of

honors last year in intramural sports championships by winning in both basketball and

softball. We also captured championship crowns in such individual events as track golf, and tennis. Hoping that this letter reaches you in

time for the fall edition of the GEAR, I remain

Yours in H & T. Glenn Hanson, Corres, Sec.

Gamma Beta Membership At Peak



Gamma Bera rounded out the summer with two major social activities, the first of which was a fishing party on Chesapeake Bay in May. We lacked nothing in spirit if the fish in the Bay did remain healthier than some of the

brothers aboard. Later on, in August, we rallied 'round to a picnic at the home of Grand Vice Regent, Norman B. "Deacon" Ames, our faculty

adviser. Our chapter officers are: Regent, Merrill R. Brown; Vice Regent, I. T. Dallas: Scribe. Glen H. Ballowe; Treasurer, J. A. Sinsabaugh; and Marshal, Burr Latta.

Off to a good start this Fall, we celebrated Founders' Day with an initiation, banquet, and dance. An all-time high record number

of new members were initiated, bringing our total number of actives to 49. Initiated were brothers Ralph B. Allnutt. Donald V. Davis. Charles F. Myers, Gerrold M. Michel, Ivan F. Bell, Richard E. Koester, Hollis K. Kushman, John W. Lewis, Martin A. Elf, Frank W. Esson, Frank C. Braugh, Charles E. Cham-bliss, William Frahm, Ernest Hix, Edward Lippett, Hillis McGee, Victor Reddle, John A. Reidelbach, James E. Robins, Vincent Toal,

and William Wroblicka. The fraternity is again ably represented about the campus and School of Engineering. Ervin J. Liljegren is President of Sigma Tau Honorary Fraternity and member of the Student council, Charles Appel is chairman of A.S.C.E.. Reid Mayo is chairman of I.R.E., and Merritt Downing is chairman of A.S.M.E. Gamma Beta is looking forward to another

eventful and successful season.

Yours in H & T. M. Downing, Corres, Sec.

Delta Beta Issues Quarterly Letter to Alumni

Our Founders' Day banquet will be held at the Mavflower Hotel this year with the installation of the following officers: Regent, Neil Balfour: Vice Regent, Jack Straub; Scribe, Iim Allen: Treasurer, Irvin Johnson; and Corresponding Secretary, Jim Wright; Professor Northrop, head of the Electrical Engineering Department,

continues as our chapter adviser. Delta Beta continues in full strength with

61 active members and 5 pledges. A smoker is being planned for the rushing of new freshman to replace the graduates who will leave us in December and March. Our present pledge class consists of: Pat Lanahan, Virgil Metzler, Clarence Rochrig, Bob Ross, and Bill Weedman.

Special mention goes to Robert Delahanty whose activities have gained distinction for him and for the fraternity. Bob is head of the Kentucky Region of the National Student Association and of the University of Louisville Student Council. He attended the National Student Congress at the University of Wisconsin and is in charge of remodeling the chapter house. The wall between two of the upstairs bedrooms has been removed to form one large meeting room to take some of the burden from the downstairs.

The first issue of a quarterly news letter to all Delta Beta alumin has been sent notifying them of our Founders' Day banquet and of the activities around the house the is our hope that through such contact enough interest will be aroused to form an activities around the fouse forms are founded by the form of the for

A new furnace has been ordered and installation is expected any day. New heating ducts are to be added as well as cold air ducts to provide more uniform heating than we have had in the past.

Delta Beta is loking forward to the national convention this winter and several members plan on attending.

Yours in H & T, James E. Wright, Corres. Sec.



Robert Delahanty

Chicago A. A. Inspects Television Station

Dear Brother Howe:

The Chicago Alumni Association held its first dinner meeting of the season at Chicago's Central YMCA on Founder's Day. After the dinner, an interesting tour was made of Television Station WBRB. Plans are now under way for the next meeting, and we urge all Alumni in the Chicago region to take an active part in their Association's affairs. Alumni in the presion now now restricts.

ceiving meeting notices should contact the Secretary, who will gladly add their names to the mailing list.

The current officers are D. V. O'Keefe, President; C. C. Griffith, Vice President; Nick Trbovich, Secretary-Treasurer; and H. H. Hopkins and J. C. Bush, Directors.

> Yours in H & T, Nick Trbovich, Sec.-Treas.

Cleveland A. A. Re-elects Officers

Dear Brother Howe:

I received your letter several days ago informing me that October 19 was the dead line for receipt of news items for the next issue of the Gear. Inasmuch as the date of the dead line and our annual Founders' Day gathering coincided, I deferred writing until today in order that I may give you an

account of this gathering.

At I mentioned above the Founders' Day
Dinner meeting was held Tuesday evening at
that was the earliest date untilable arrangements
with the active chapter at the Fhi Delta'
Theat Fraternilly House. I should say that
under the chairmanship of Brother Tom Nonbooker, for it was the active chapter who
the dinner and program were made and
the dinner and program were made and
notices sent to all alumni. There were

present forty-five alumni and actives, which traced the dining room facilities of the fracernity house to capacity. The program consisted of a very interesting talk by Mr. William Galey, an undergraduate at Case, on the subject of manufacturing of glass. Following the program, the president of the Alumni Amoctation, Professor Leife Rentfolm, in an agreed that all officers remain incumbent for the coming vext.

cumbent for the coming year.

The officers of the Cleveland Alumni Association are as follows: President, Peof. Lelie J. Readon, Case Institute of Technology: Vice President, Calvin B. Dalton, 1044 Elbon Road, Cleveland Heights, Ohio Secretary, Gustav Koder, (Res.) 2964 Ripley Road, Cleveland 20, Ohio; or (Bus.) Preco. Products Co., 11610 Euclid Avenue, Cleveland 6, Ohio; Treaturer, Carl H. Gaznemueller,

2684 Scaeborough Road Cleveland Heights.

Ohio A tentative program for the coming year was discussed. The next meeting is planned for the latter part of January and one later in the sprine which the active chapter is again planning to sponsor.

> Yours in H & T. Gustav Kodet, Secretary

Intermountain A. A. Plans Founders' Day Meeting

The Intermountain Alumni Association has not assembled for activities during the summer season. The initial function of this fall will be the annual Founders' Day Banquet. scheduled for October 21. The active members of Lambda will join in the celebration with the alumni. The principal address will be presented by Dr. Mervin B. Hogan of

the University of Utah mechanical engineering faculty. His subject will be "Genius at work." The incumbent officers of the I.A.A. are Ernest Klepetko, President: Elton W. Pace, Vice President: and John William Jenkins,

> Yours in H & T. John William Jenkins, Sec.

National Capital A A Asks Theta Tour To Contact Dear Brother Howe:

Since my last communication with you there has been no change in the line up of officers of the National Capitol Alumni Association which stands: President, J. Harold Link; Vice President, Joseph Hartman; Secretary, Robert G. Weston; Treasurer, Frank Weathersheer and the Executive Committee George

Lohnes, Carl Estabrook, and Jack Beane. We joined Gamma Beta in celebrating Founders' Day at the Roger Smith Hotel. More than twenty new members were initiated and the affair was topped off with a banquet and a dance.

We are looking forward to cetting together with Gamma Beta chapter for our annual outing which is planned for mid-November.

These parties are true highlights of our social affairs and provide amusement to tastes ranging from poker to ping-pong,

It is felt that there are many Theta Tau Alumni in the Washington area who are not members of our association and who are interested in joining our activities. To receive notices of meetiens and social functions a card mailed to me at 1818 North Patrick Henry Drive, Arlington, Va., will be effective, I would also appreciate hearing from those members who may not be receiving their

Thanks for the space Brother Howe.

Yours in H & T. Robert G Weston Secretary

Twin City A. A. Elects Young Officers Dear Brother Howe:

From the home of the Golden Gophers. the Twin City Alumni Association extends its greetings to old friends and new. Fall activities started with a bang with the 44th Annual Founders' Day Banquet which was held in the Coffman Memorial Union on October 15, 1948. An excellent turnout of 64 alumni and actives exceeded our expectations and packed the room to its capacity. Credit for this capacity crowd must be given to the active chapter who, under the

circulars to all alumni in the area explaining the program and urging their attendance. The meeting was ably presided over by President Bob Graebner who, in his usual good humor, put everybody to ease and kept the evening interesting. The first matter to receive consideration was the election of officers to serve the T.C.A.A. for the next biennium. It was felt that closer cooperation

leadership of Regent, Bob Reiss, despatched

with the active chapter and a more active alumni association could be obtained by having younger officers. The general concensus was that the younger set is not so loaded down with responsibilities which interfere with fraternal activity. With this thought in mind, the following slate of officers were elected: President, Al Benzick, CE '46; Vice President, Bob Asleson, ME '38; Secretary & Treasurer, Bob Rosene, CE '45; Board Members, Bob Lunn, ME '40 and Herm Seibert, Met. '48.

An audit system imposed upon all fraternal groups on campus by the University has been receiving considerable discussion among fraternities. To acquaint the alumni with the problem, a program was arranged for the Founders' Day Banquet that included both sides of the question, Dean Williamson, Dean of Student Affairs, gave some of the background which resulted in establishing the audit. Mr. Jim Bailey, an alumnus of Kappa Eta Kappa, presented some of the principal

objections to the present system. A discussion was held and it was felt that much mis-

understanding was cleared up.

Members of the Alumni Association were deeply grieved by the pussing of Brother Lewis F. Marrin, CE '14, on August 29, 1944. Several brothers of his class got together and contacted all wha knew him and mids a collection to be presented to his family. The all-out support encountered was very gratifying, being a great tribute both to the fine frazersal sprint displayed to the promotion of the processing and the promotion of the processing of the processing of the processing of the processing of Borner Marris Chipper to the promotion of the processing of the process

The active chapter informs me that elaborate plans are being laid for a big Home-coming Party to be held at the chapter house on October 30 after the Homecoming football

game. Alumni in the area are all being contacted and all Theta Taus are urged to come. A large turnout is expected.

A large turnout is expected.

The winter activities of the Alumni Association being planned include a winter meeting to be held sometime in December. There are a number of men in the area from whom we have had no word in recent times. Any information on the addresses of brothers who have not been active for some time or supported that the support of the property o

Looking forward to another fine year of

Yours in H & T, Bob Rosene, Sec.-Treas.

A woman on a bus suddenly realized she hadn't paid her fare. "I'll go right up and pay it," she declared.

"Why bother?" her friend replied.
"You got away with it—so what?"
"I've found that honesty always
pays," the other said, and went up to

pays, the other

"See, I told you honesty always pays," she said when she returned. I handed the driver a quarter and he gave me change for 50 cents."

A much-married Hollywood actor was confronted by a gay damsel.

"Hello there," she said, don't you remember me? Ten years ago you asked me to marry you!"

"Really?" yawned the actor, "and did you?"

A man phoned his doctor, asking him to come over quickly. My wife has appendicitis!"

The doctor retorted, "Nonsense!" I took your wife's appendix out years ago and I never heard of anyone having a second appendix."

The anxious husband replied, "Ever hear of anyone having a second wife?" The Governor of the state was guest of honor at the factory of a certain automobile company. And in the presence of the Governor, the company seems of the Governor, the company seems of the Governor, the company to the story plenty of space—told how the story plenty of space—told how the care was assembled right before the Governor's eyes. A month later, a fellow called up the auto factory and said, "Is it true what I read in the papers—, that, in honor of the Governor, your factory assembled an outo-mobile in two minutes?"

"Absolutely true," came the reply.
"Well." shot back the anery cus-

. . .

Two women were having lunch together when suddenly one of them noticed the other's purse. "Isn't that new?" she asked.

"Yes," said the other, "I earned it myself."

"How did you do that?"

tomer. "I've got that car."

"It was easy," she answered. "I cut down on my husband's lunch and carfare money."

Alumni Notes

ALPHA

DUNCAN, KENNETH, '10, is now assistant manager for Pickands, Mather & Co. in Minnesota. He has been with the company for 28 years in charge of various iron mines in Minnesora and Michigan. Present headquarters are in Duluth, Minnesota.

JONES, WATKINS W., '11, has retired and lives in Seal Rock, Oregon.

Askew, T. S., '16, is in the manufacturing division, General Electric Co. Hanford Works, Richland, Wash.

MARSHALL, DONALD EDDY, '19, consulting engineer, lives at 16 Greenbriar Drive, Summit, New Jersey.

HILGEDICK, WINFRED CLINTON, '26, Comdr. USN, is stationed at the Naval Laboratories in Washington, D. C. and lives at 5522

Northfield Road, Bethesda, Maryland. NEUBAUER, LOREN WENZEL, '26, is associate professor at the University of California, in Davis, California, and lives at 22 Oak

Ave., Davis. GILE, RICHARD E., '27, part owner of the Rotary Engineering Co. makes his home in Midland, Texas, and at 9244 W. Highland Drive, Dallas, Texas.

WILLOK, J. HEBDEN, '32, wants his mail sent in care of Joslyn Mfg. & Supply Co., 20 North Wacker Drive, Chicago, Illinois. RAHN, HENRY W., '33, has been appointed research and development director for the Corpus Christi, Texas, plant of the Southern Alkali Corp. He joined the firm in 1934.

LUNDSTROM, ORVILLE GLEBE, '38, is a geological scout for the Atlantic Refining Co., Box 1346, Houston, Texas, and lives at 4931 Culmore Drive, Houston 12, Texas. JOHNSON, DONALD R., '39, with Gulf Oil Co., lives at 720 S. Toledo, Tulsa, Oklahoma.

McMillen, RALPH EUGENE, '39, is with Phillips Venezuela Oil Co., Apartado 1031,

Caracas, Venezuela, S. A. BOYUM, BURTON H., '41, sent in his address as U. S. Highway 41, Negaunee, Michigan. Johnson, J. Roy, '41, is District Engineer,

Panhandle District, Shell Oil Co., and lives at 1137 N. Starkweather, Pampa, Texas. MADSEN, MAXWELL H., '42, is geologist with the Cleveland-Cliffs Iron Co., and can be addressed at 601 North Main. Ishneming.

Mich. BARTOO, WARREN HUBERT, '46, is engineer for the Boeing Aircraft Co. and lives at 1418 Michigan ave., Alamagordo, New

Mexico. TALTY, RUSSELL HERBERT, '46, and wife are located in Cairo, Egypt, where he is petroleum engineer for Socony Vacuum Oil Co., Sharia Ibrahim Pasha, (that's the name of the street). Cairo, and home is

at 69 Road 9, Cairo, Egypt. JOHNSON HARLAN W., '47, is with the Twin City Concrete Pipe Co. and lives at 2930 Newton Ave., N. Minneapolis, Minn.

MICK, RICHARD H., '47, with Pickands-Mather & Co. in Hibbing, can be addressed Box 313, Elcor, Minn.

RETA

CARROLL, WILLIAM F., '09, Lt. Col. AUSintendent Lake Mining Co. Elcor, Minne-ORC has retired from the army. sota, and lives in Chisholm, Minn. LOVELAND, RALPH A., '14, has been promoted

to Major General. He is commanding general of the Michigan National Guard. WIGGINS, RALPH RAYMOND. '14, has retired as chief engineer for the Socony-Vacuum Oil Co. in Venezuela, and is now living at

320 East 9th ave., Tarentum, Pa. APELL, GIDEON A., '15, mining engineer with the U. S. Bureau of Mines is now stationed at Platteville, Wisconsin.

MILLS, CARL E., '15, is general superintendent for Phelps-Dodge Corp. at Jerome, Arizona. BRADT, MAURICE L., '16, has been appointed assistant to the general superintendent of

Pickands, Mather & Co. in the Hibbine Minesota district. WHATLEY, WM. J., '17, has joined the staff

of Freeze, Nichols & Turner, 2111 National Standard Bldg., Houston, Texas. THIELMAN, THOMAS C., '18, is mine super-

GRIFFITH, FRANCIS B., '22, was elected a director of the Lake Carriers Association in March and joined the grandfather's club in May.

LAWSON, WALTER C., '23, is now General Superintendent, New Cornelia Branch, Phelps-Dodge Corp., Ajo, Arizona.

HAGA, LOUIS JOHN, '25, is president of State Heat Treat Inc., 520 32nd Street, SE, Grand Rapids, Mich., and lives at 2106 Francis Ave. SE, Grand Rapids.

SATTERLY, RAY, '25, of Ishpeming, Michigan, was elected President of the Alumni Association of Michigan Tech at the recent reunion held in Houghton. T. C. Thielman, *18, of Chisholm, Minn. was elected Trustee, and James Fisher, Hon. Beta, was elected Secretary. J. S. Westvater, '34, was elected to the Board of Trustees,

GRAVES, RITSON H., '28, is manager of the Duquesne Smelting Corp., Pittsburgh, Penn. HAWN, ANDREW CONRAD, '31, is one of the mining and metallurgical engineers for the Canadian Carborundum Co. in Shawinigan

Falls, Ouebec. The Hawns and small son, James Andrew, live in Apt. 5, 217 Frigon Street, Shawinigan Falls,

Young, Paul E., '31, is living in Mimico, Ontario, Canada. WEBB, WALTER M., IR., '34, moved from Clinton, Iowa to 35 Tuttle Avenue, Claren-

don Hills, Illinois, COLLINS, WILLIAM JOHN, IR., '35, is a partner in Collins & Gould, Consulting Engineers,

Tulsa, Oklahoma, KRIEG, EDWARD A., In., '35, is living at 1928

Canterbury, Houston, Texas.

LANGE, WILLIAM H., '35, was appointed councilman in St. Louis, Mo. He is purchasing agent for the Michigan Chemical Corp. Home is at 1023 Ruskin, St. Louis,

Mo

OLSON, ALLAN F., '35, is production engineer for the Cliffs Dow Chemical Co. in Marquette, Michigan, P. O. Box 28.

ALBERT, JOSEPH L., '36, Major CE, U. S. Army, is assigned to the California Institute of Technology in Pasadena, Calif. REYNOLD, SHELDON H., '37, lives at 2434

Southgate, Houston, Texas. CUMMINGS, LESTER H., '38, is a junior inspector on a super highway project for the Texas State Highway Department.

GRIBBLE, WILLIAM C., JR., '38, who graduated from West Point after attending Mich. Tech, is a Major USA, and is stationed with the Armed Forces Special Weapons Project, Sandia Base, Albuquerque, New Mexico.

BERRY, AUSTIN L., '40, Col. USA, is air installation officer, 313th Troop Carrier Wing, Austin, Texas,

GRIBBLE, ROBERT Q., '41, and Miss Alice Baxter were married on August 14, 1948, in Clawson, Michigan. He is research engineer at Battelle Memorial Institute in Columbus. Ohio, and they are living in Westerville, Ohio,

KLENNER, ARTHUR J., '41, announces the birth of twin sons on May 23, '48, MOBERG, WESLEY O., '41, is at the Ordnance

School, Aberdeen Proving Ground, Mary-

NELSON, EDWARD N., '41, announces the birth in July of a daughter, Susan Joyce,

DECKER, EDWIN R., '42, B. S. West Point '43. Capt. U. S. Air Force, is attached to the American Mission for Aid to Turkey in Ankara.

RACINE, ROBERT L. '42, sent in the following address-Route 3, Box 49, Pewaukee, Wis. DORFFI, ARTHUR A., '44, is with the Sohio Petroleum Co. in Mt. Vernon. Illinois.

SAMPSON, RICHARD W., '47, and Miss Joan Donnelly of Houghton were married on May 22, 1948. They are living in Ashland.

Wisconsin, where he is with the Lake Superior District Power Co. TURNBULL, WILLIAM C., '47, is industrial

sales engineer with Texaco. ANDERSON, LAWRENCE L., '48, is with the Prescott Co. in Menominee, Mich., and is

living at 807 Ogden Ave. in that city. EDWARDS WILLIAM H., '48, and Miss Therese Feira were married on June 17, 1948. They are making their home in Elkhart Indiana.

HANSON, NEIL, '48, is with the Dorr Co. Westport, Conn. MARSH, KENNETH Ross, '48, is in the purchasing department of the Detroit Edison

Co. Home is at 606 Hendrie Blvd., Royal Oak, Mich. SCHOCH, RICHARD D., '48, lives at 1329 Campbell Road, Oklahoma City, Oklahoma,

GAMMA

EAST, JOHN H., JR., '10, senior mining engineer for the U. S. Bureau of Mines is now at the Denver, Colorado, office and receives mail at his home 3427 Vine street, Denver 5. WALKER, STANLEY M., '11, engineer with the

U. S. Bureau of Mines whose work takes him into the eastern and southern states, can now be addressed c/o M. C. McCall, U. S. Bureau of Mines, Social Security Bldg., Birmingham 3, Ala.

May, A. J., '12, is now at the Ground Hog Unit of the A. S. & R. Co., Vanadium, New Mexico.

Essig. BEN C. '15. Vice President of the Gardner-Denver Co. has been elected presi-

dent of the Chamber of Commerce in Denver. Colo.

HARROD, WAYNE E., '16, Assist. Industrial Safety Ener. Division of Industrial Safety. State of California, now resides at 9020 Wheatland Ave., Roscoe, California. RIDDLE, DONALD D., '18, has his offices in

the Guernsey Bldg., 21 East Central Ave., Orlando, Fla. MILLER, GUY EDWIN, '19, is geologist for the

Shell Oil Co. and lives at 2080 Obispo Ave., Long Beach 4, Calif.

PARKER, RUSSELL J., '19, executive assistant to the president of the Kennecott Copper Corp. was given a medal for distinguished service in mining exploration and administration at the June Commencement of the

Colorado School of Mines. LYNCH, VICTOR J., '20, senior mining engineer, U. S. Bureau of Mines, can now be ad-

dressed at P. O. Box 5185, Raleigh, N. C. FORFANO, LOUIS C., '21, is manager of the Latshaw Lumber Co., Roversford, Pa. BINYON, E. O., '23, mining engineer for the

II S Bureau of Mines is now stationed at the South Dakota School of Mines office.

Rapid City, S. D.

EVANS, JOHN R., '23, chief production engineer for Stanolind Oil & Cas Co, has been transferred to Texas and can be addressed care of the company, P. O. Box 1410, Fort Worth, 1.

PECK, JAMES A., '23, should be addressed at P. O. Box 38. Turkey, Texas, He is with the Soil Conservation Service.

WORDEN, JOHN C., '23, assistant chief engineer. Shell Oil Co. wants mail sent in care of their Wilmington Refinery, P. O. Box 728. Wilmington, Calif.

AUMAN, EGBERT E., '24, long on our lost list, is V. P. & Mer. John McDonald Co., 133 E. Green street, Pasadena, California, and lives at 400 East California Street, Pasa-

dena, California FROBES, C. D., '24, has left Edgar Brothers in Georgia and is now Vice-President and Genl. Mgr., The Armtsrong Co. of Detroit, Mich. Mail should be sent to his home at 241 South Post Street, Detroit 17, Mich.

KELLER, HOWARD F., '24, is assistant general manager for Patino Mines & Enterprises Cons. Inc. at Catavi, Bolivia, S. A.

HUTTON, JOHN L., '25, manager of the Clark Controller Co., resides at 938 Remington Road, Wynnewood, Pa.

RENKEN, HOWARD C., '25, lives at 91 Fallis Road, Columbus, Ohio. WEIMAR, WILLIAM D., '25, in the general en-

gineering department of the Southern California Telephone Co. has moved his home and mailing address to 1539 Bellford Ave., Pasadena, Calif.

BLISS, PAUL D., '26, with the Calco Chemical Division, American Cyanamid Co., resides in Piney River, Virginia.

O'CONNOR, JOHN H., '26, is with the Bolivian Tin & Tungsten Mines Corp., Casilla 163, Potosi, Bolivia, S. A.

CRONIN, G. HAROLD, '26, Major USA, is stationed at Lowry Field Denver, Colo. where he receives mail in Box 251.

HUNTINGTON, M. PARK, '26, gives his address as Box 1654, Oklahoma City, Okla. DOERR, PHILIP, '27, can now be addressed at Apartado Postal 93, Torreon, Coabuila, Mexico, where he is with the A. S. & R.

smelter. HOLMES, THOMAS J., JR., '27, has returned

to Oaklawn Manor, Franklin, La. to reside,

He is a consulting engineer on oil pro-

SOTOCK, MICHAEL, IR., '27, is the owner and manager of the Mode-O-Day Shop, Women's Apparel, at 979 Market Street, San Francisco, California, and lives at 2240 N Point Street, San Francisco.

WEINTZ, C. A., '27, is senior geologist with the Standind Oil & Gas Co. P. O. Box 591. Tulsa 2. Okla., and resides at 4723 East 9th Street, Tulsa 4, Okla.

MARSHALL, I. G., '31, is project manager of The Fluor Corporation Ltd. and wants mail sent to 720 North Lemon Street, Anaheim, California.

AUSTIN, ARTHUR B., '32, Asst. Mgr. Hercules Powder Co. is now living at 221 Fairview Ave., Elmhurst, Ill.

MOORE, CLARK W., '32, wants his mail sent to Box 1001, Bruni, Texas,

PRESSETT, EUGENE, '32, superintendent of the Rock Asphalt Co. of Utah, should be addressed at P. O. Box 241, Dragerton, Utah. SAVAGE, ALFONSO C., '32, (formerly Switsavage) is mining engineer for the New Jersey Zinc Co. at Austinville, Virginia.

TRUMBULL, NELSON E., '32, petroleum engineer for the Ohio Oil Co. is now living at

2220 Lester Street, Bakersfield, Caif. ZWICK, WALTER H., '32, is employed by the Portland District, Corps of Engineers, on dam foundation explorations. Mail should be sent to 8260 N. Chautaugua Blvd., Port-

land 3, Oregon. KNILL, LESTER D., '33, Coal Mine Inspector, U. S. Bureau of Mines, gets his mail at 233 Federal Bldg., Seattle, Wash.

OSBORN, CLYDE E., '33, completed his work in Guatemala and can be addressed at 1524 S Flizabeth Street, Denver 11, Colo

GIGGEY, T. E., '34, Service Engineer for Ingersoll-Rand Co. wants mail sent to his home at 542 Rose Drive, Whittier, California.

LITTLE, WILLIAM W., '34, has been made Mine Supt. United Verde Branch. Phelos-Dodge Corp., Jerome, Arizona. C. E. Mills, Beta '15, is General Supt. at Jerome. SESS, T. W., '34, is sales manager for the

Eastman Oil Well Supply Co., and lives at 4355 Carr Ave., Wheatridge, Colorado. DAGGETT, WILLIS K., '35, Division Sales Manager for the Eastman Oil Well Supply Co.,

lives at 2918 Lovers Lane, Dallas 5, Texas. HALL, LEROY E., '35, is now mill superintendent for the Empressa de Estano de Araca Co. Viloco via Eucaliptus, Bolivia,

S. A. TRUE, KENNETH D., '35, is production superintendent for Moore Enameling & Mfg. Co., Columbus, Ohio, and wants mail sent to Box 282, Bexley Branch, Columbus 9, Ohio. ADAMS, GEORGE H., '36, lives at 3944 Oakwood Place, Riverside, California, CHRISTMANN, JOHN J., JR., '36, can be reached via Route 5, Lubbock, Texas.

GILL. PERRY A., '36. Division Engineer for Sunray Oil Co. is now located in Midland,

Texas, and his office is on the 4th floor of the Midland Tower Bldg. HATCH, JOHN EDWIN, '36, received an M.S.

in Metallurgy at Carnegie Institute of Technology in June 1948. He is with Alcoa, New Kensington, Pa.

RIPLEY, GEORGE HURLBUT, '36, project engineer for the Hercules Powder Co. in Parlin. N. I. lives at 18 Newman Street, Metuchen,

BROWN, STEPHEN JOSEPH, '37, is design engineer in the Mining Department of the Bethlehem Steel Co. and lives at 730 West

Union Blyd., Bethlehem, Pa. MENCIMER, JOHN C., '37, long on our "lost" list, is engineer for Columbia Steel Co. and lives at 1200 Santa Lucia, San Bruno, Calif.

MOULTON, WESLEY G., JR., '38, Supt. Cresson Cons. Mines Co., wants mail sent to his home at 326 Prospect Street, Cripple Creek,

STRAIN, WILLIAM E., '38, supervisor of geophysical work for The Superior Oil Co., is now addressed at P. O. Box 641, Richmond,

TARR, CHARLES M., is now addressed at Route

1, Griffin, Indiana. ANDERSON, WILLIAM JR., '39, is engineer for the Anderson Phosphate Mines with offices in the O'Rourke Estate Bldg., and lives at

14 N Excelsior, Butte, Montana. BAKER, THOMAS C., '39, sales engineer for the American Manganese Steel Co. should be addressed in their care 840 Ferry Street,

Oakland, Calif. BREWER, L. J., '39, can be reached c/o Cerro de Pasco Copper Corp., Cerro de Pasco,

Peru. S. A. POWERS, JACK D., '39, Minister for Jehovah's Witnesses, is on a mission in South America but mail for him can be sent to the Watch Tower Bible & Tract Society, 124 Columbia Heights, Brooklyn 2, New York, and

will be forwarded by them. REDMON, CHARLES F., JR., '39, Senior Petrol-eum Engineer, The Texas Co., wants mail

sent to Box 2332, Houston, Texas, BLYTHE, J. GARDNER, '40, lives at 3500 Lansing Street, Philadelphia, Pa.

CRAIG, JOHN GORDON, '40, is in charge of the mill of the Empire Division, New Jersey Zinc Co., and can be addressed at Box 43, Gilman, Colorado.

PEAVEY, S. FILLMORE, '40, asks that mail be sent to him c/o S. F. Peavey Jr., 70 Pine Street, New York City.

LEWIS, P. A., '40, is now with the exploration

department. American Smeltine & Refining Co., Pacific National Life Bldg., Salt Lake City 1. Utah, and wants mail sent there until he can find a more or less permanent

home for his family. NAGEL, FRED A., '40, and Miss Lois Corretore of Buffalo, N. Y. were married on July 3, 1948. He is with U. S. Gypsum Co. in Geneva, N. Y. where they are living at 77

Genesee Street PARIS. EVERETT. '40, is now with the Macma

Copper Co. at Superior, Arizona. CERF, CHARLES J., '41, Petroleum engineer

for the Fullerton Oil Co. has changed his home address to 342 South Parkwood. Pasadena, Cal.

HENNEBACH, RALPH, '41, with A. S. & R. Co., has a new address at the El Paso Smelting Works, P. O. Box 1111, El Paso, Texas, HUTCHINSON, GLEN H., '41, has moved to 4605 Brentwood, Wheatridge, Colo. He is

engineer for the U. S. Bureau of Mines. JANAKKA, W. E., '41, reports the birth of a daughter on December 17, 1947. He is with the U. S. Vanadium Corp. at Bishop, Cali-

PATTY, WALTER LAMAR, '41, who has been engineer for the contracting firm of Peter Kiewits Sons Co. is now addressed at 7160 Henderson Ave., Tampa 2, Florida. Schiele, Wm. R., '41, announces the birth of

Diane Elaine on December 28, 1947. He is chemist for the duPonts at C.M.E. Dinamita, Duraneo, Mex.

FINN, JOHN FRANKLIN, '42, is a netroleum engineer for the Stanolind Oil & Gas Co. in Thermopolis, Wyomine,

LEONARD, JAMES R., '42, has his home at 632 Idaho Ave., Santa Monica, Cal. THOMPSON, DEAN WARREN, '42, is metallurgist for General Electric Co. Ft. Wayne, Ind., and lives at 2914 Chestnut Street. Ft.

GALLAHER, ROBERT H., IR., '43, with The Texas Co. is now in Newcastle, Wyoming . KEIL, ROBERT W., '43, plant supt, with U. S. Gypsum wants mail sent to Box 91, Sigurd, Utah. He announces the birth of Ronald Lee on April 17, 1948.

MANN, F. W., '43, is assistant to the super-intendent of the Pipe Line Dept., Standard Oil Co. of Indiana in Chicago. Mail should be sent to him at 21 East Division Street,

TRIMBLE, RALPH C., '43, has been transferred to the American Manganese Steel Division, American Brake Shoe Co., 389 East 14th Street, Chicago Heights, Ill.

CEDARBLADE, DON L., '44, has been transferred by Gulf Oil Co. and is now addressed at Box 5531, Terminal Annex, Dallas, Texas, HEDLUND, THOMAS C., '44, is now shift boss, Telluride Mines Inc. and can be addressed

at P. O. Box 133. Telluride Colorado MORGAN, FRANK ALBERT, JR., '45, but who

graduated at California in Berkeley, is with the Stanolind Oil & Gas Co., Box 898, Salt Lake City, Utah. His father is Frank A. Morgan, Epsilon '20, and his permanent address is 1228 N Wetherly, Los Angeles,

McQuinn, W. Iones, '46, is engineer in the General Engineering Dept. Standard Oil Co. of California, 225 Bush Street, San Fran-

CAMPBELL, CHARLES WILLIAM, '47, is a jun-

ior mining engineer for the A. S. & R. Co. Mina Tiro General, Charcas, San Luis Potosi, McKeever, J. H., Ja., '47, with Stanolind Oil

& Gas Co. lives at 531 East 8th Ave. West. Calgary, Alberta, Canada.

RAU, EARL L., '47, and Miss Virginia Griffey of Englewood, Colo. were married on March 14, 1948. The family home is at 1247 Downing street, Denver, and he is chemist

for the A. S. & R. Co. ZIMMERLY, RICHARD F., '47, tells of the birth of a daughter, Martha Jean, on March 16,

1948. He is with the McColl-Frotenac Oil

Co. Ltd. P. O. Box 69, Edmonton, Alberra. Canada. ALDRICH, FRED C., '48, is with Ohio Oil Co.,

Grass Creek, Wyoming, DASOVICH, JOHN, '48, and TORPEY, JAMES R.

'49, were injured in an automobile accident on May 17th when the car in which they were riding side-swiped a truck on West Colfax Ave., Denver.

DeGoes, Louis, '48, recently Major of the U. S. Air Transport Command and stationed in Hawaii, was recently discharged from the service and received his Geological Engineers degree in May. He is now a student at Stanford and has bought a home at 729 Williams Street, Palo Alto, Calif., where he is residing with his wife and two sons.

FISHER, S. J., '48, is petroleum engineer for the Mountain Fuel Supply Co., and can be addressed at P. O. Box 1129, Rock Springs,

SPIELES, EARL L., '48, is employed by the Ohio Oil Co. at Grass Creek, Wyo.

DELTA

FREEMAN, HARLEY, '17, has a new address at SEAVER, WM., '38, is with Fairchild Engineer 353 South Atlantic Ave., Ormond Beach, Florida. FISH, RUSSELL C., '22, has become general

manager for the M.A. Hanna Co. iron ore producers, with offices at 912 Fidelity Bldg.,

Duluth 2, Minn. DIETRICH, NEFF T., '23, is with the Midland Steel Products Co. in Detroit, Mich.

DOLL, DENTON T., '27, has left the metallurgy department at Case and is now with the Brush Beryllium Co. of Cleveland, Ohio. ROODMAN, FRANK, '31, is now living in Chi-cago where he is assistant construction

superintendent for the Austin Company. KLEINBERG, LESTER, '32, is a member of the firm of Kleinberg Brothers, Importers, 513 N La Cienega, Los Angeles 36, Calif.

BELL, MILLARD, '33, is assistant factory manager of the Thermoid Co. Trenton, N. I. Home address is 874 N. Pennsylvania Ave.,

Morrsiville, Pa. DONNELL, JOHN, '34, has a new home at 2200

S Main, Findlay, Ohio. TINDAL, CHARLES H., '36, announces the birth of Patricia Alice on March 11, 1948. He is professor of engineering research at

Penn State College. GRAHAM, JOHN, '38, has a new daughter born May 16, 1948.

NEVILLE, ROBERT, '38, is now with North American Mfg. Co. in Cleveland.

RIEMENSCHNEIDER, WM., '38, is with Union Metal Mfg. Co. Canton, Ohio,

& Airplane Works, Oak Ridge, Tenn. Hildretii, John, '39, serves as representative of the Chilton Co. Guardian Bldg., Cleve-

land, Ohio, LUBAHN, JACK D., '39, is metallurgist for the General Electric Research Laboratory in

Schenectady, N. Y. VANDERHOOF, RICHARD, '39, is development engineer for Alfred LeFeber Consulting Engineers, 713 Temple Bar Bldg., Cincin-

nati, Ohio. BOLZ, RAY, '40, is assistant professor in the Aero Dept. Renselaer Polytechnic Institute, Troy, New York, and is working on his doctorate thesis in absentia from Yale Uni-

CHAPMAN, GEORGE, '40, is with the Euclid Road Machinery Co. Euclid. Ohio. LAWLER, JOHN, '40, received his bachelor of

laws at Western Reserve at the 1948 Commencement SWARTWOUT, DENTON K. III, '40, and Miss

Elizabeth Purviance were married on June 5, 1948, in Huntington, Indiana. BECKWITH, ROBERT, '41, is with the General

Electric Co. and has bought a home in North Syracuse, New York. BYERS, EDWARD FRANKLIN, '41, is a Capt. U. S. Army Air Corps, Waller Field, Trini-

dad, British West Indies, and mail should be sent to APO 869, c/o Postmaster, Miami, Florida.

MILLS, WALTER, '42, formerly Mlynko, is

sales engineer for the Ohio Stainless & Commercial Strel Co. in Dayton, Ohio. NIEDERHAUSER, JOHN, '42, is in the research

section of the Curtiss-Wright Corp., Columbus, Ohio. NUSBAUM, DAVID, '42, completed his work at

the Harvard Business School and is employed by the American Research & Development Corp. in Boston, Mass.

TAYLOR, DONALD E., '42, after receiving his the camera works division of the Eastman Kodak Co. in Rochester, New York

THOMPSON, FRED, '42, is a metallurgist with the Allegheny-Ludlum Steel Corp., in Dunkirk. New York.

NUSBAUM, WILLIAM, '44, has a new job with Tracerlab, Inc. 55 Oliver Street, Boston, Mass.

GALLOWAY, GEORGE H. IR., '45, and Miss Marearet McKenna were married on January 10, 1948. He is engineer for A. T. & T.

GROSS, MORTON J., '45, and new wife are living at 2408 Belvoir Blvd. University Heights, Cleveland, Ohio,

VANDERWIST, DONALD, '45, is with Owens-Corning Fiberglas Corp. Newark, Ohio. OMAN, ALBERT J., '46, is working for the Minensota Highway Department in St.

Paul, Minn.

REBMAN, JOHN, '46, is with Battelle Memorial Institute, Columbus, Ohio, SCHELLENTRAGER, EDWARD, '47, is with the

Atlas Car Mfg. Co. Cleveland, Ohio. ZWIESLER, EDWARD, '47, is with H. C. Ander-

son Inc. Insurance Brokers, Dayton, Ohio. FORT, GEORGE A., '48, 2065 Cornell Road SE, Cleveland Ohio was awarded the Fred Hale Vose prize of \$50.00 to the senior with great promise in mechanical engineering, at

the June Commencement. GERACE, FRANK E., '48, Canton, Ohio, received the Cornelius G. Scheid prize of \$50.00 awarded to the senior class president

in recognition of leadership. GORMAN, ROBERT T., '48, asks that mail be sent to him in care of Sohio Pipe Line Co.,

407 North 8th Street, St. Louis 1, Missouri. PENOVICH, ROBERT, '48, was awarded the Fred Hale Vose prize of \$50.00 in mechanical engineering for the senior demonstrat-

ing greatest promise for professional leader-LISY, THOMAS, '49, was elected president of the Case Senate for the ensuing year. Ballots were cast by 933 students. He is a

member of the A.I.E.E., Glee Club, and Blue Key. ROGERS, THOMAS, '49, in competition with candidates from eleven colleges, was awarded a \$500.00 scholarship by the American

Society of Tool Engineers.

Co. of New York, 50 West 50th street, N. DAVIS, ELMER FRED, '10, has retired as Vice President and Chief Geologist of the Shell HENRY, LEONARD WILSHIRE, '20, is geologist Oil Co., and should now be addressed at

709 Thayer Ave., Westwood Hills, Los Angeles 24, Calif. HUDSON, FRANK S., '12, is now consulting

geologist for the Capitol Co. oil producer for Transamerica Corp., 1 Powell Street, San McLaughlin, Donald, '14, has been elected

a Director of International Nickel Co. of Canada. He is also President of the Homestake Mining Co.

RHOADES, ROY STITES, '15, oil tycoon, has purchased a ranch in Wyoming and will spend most of his time hunting and fishing and doing some of the things he did up there 40 years ago. He can be addressed at Anchor Ranch, Dubois, Wyoming.

TRASK, PARKER D., '17, formerly with the U. S. Geol. Survey, has joined the staff of the California State Division of San Francisco Ball Toll Crossings as supervising geologist in connection with new crossings across the bay. Home is at 491 Crescent Street, Oakland 10, Calif.

CHRISTE, LAURENCE G., '20, is vice president in charge of foreign marketing for Shell Oil

for the Richmond Petroleum Co. of Venezuela, Apartado 221, Caracas, Venezuela, S. A. and lives at Sociedad a Camejo 16, O'NEILL, FRANK ELISHA, '20, is an instructor

in Petroleum Engineering at the University of Southern California, and lives at 4218 Sutro Ave., Los Angeles 43, Calif.

KING, CLARENCE R., '21, formerly with the state of California Division of Mines, is now with the Standard Perlite Co. 202 N Euclid ave., Pasadena, California. His home address is 7652 East Bolsa, Rt. 3, Santa Ana, California. SALSBURY, RALPH THOMAS, '21, has offices

as a mining engineer in San Diego and lives at 818 Ft. Stockton Drive, San Diego, Calif. GREEN, FREDERICK C., '23, has been appointed assistant general manager of the Chino Mines Division of Kennecott Cooper Co. at Hurley, New Mexico.

HENRY, SCHUYLER B., '23, is geologist for American Overseas Petrol. Co. 200 Bush Street, San Francisco, Calif., and resides at 1683 43rd Ave., San Francisco.

Sweer, J. R., '24, has resigned as underground manager of the Roan Antelope Copper Mines in Northern Rhodesia, and can now be reached c/o Paul Bartlett, 1181 Trestle Glen Road, Oakland 10, Calif.

REA. HENRY CARTER, '25, consulting ecologist and petroleum engineer, is now located in

Casper, Wyoming. O'LEARY, WILLIAM RICHARD JR., '34, is man-

ager of the Sacramento Brick Co. Front & Capitol ave., and lives at 2264 9th ave., Sicrimento California McLAUGHLIN, ALTON EDWARDS, '55, is metallurgical engineer with The Merrill Co. 582

Market Street, San Francisco, Calif., and lives at 822 West Grant Place, San Mateo, Calif. NELSON, DAVID ROBERT, '15, is metallurgical

accountant at the Anaconda smelter and lives at 316 West Park Street, Anaconda, Montana.

THOMAS, CONRAD W., '36, is now with the Baroid Sales division of the National Lead Co. in Los Angeles, 830 Ducommun Street, Los Angeles 12, Calif.

NEILSON WILLIAM IR., '37, is chief explora-

tion engineer, Shell Oil Co. P. O. Box 999. Bakersfield, Calif., and lives at 200 H Street. REED, GEORGE F., '37, has left the Coronado Copper & Zinc Co. and with some associates has organized the Omega Metals Co. in Kingman, Arizona. At present they are working at the Copper World and the

Boriana mines. AULD, IAN MURRAY (formerly Lawrence), '38, is an insurance salesman with the Prudential Life Insurance Co. in Oakland, and lives at 442 Stow Ave., Oakland, Calif.

GRAY, DALLAS HURD JR., '38, is with the Pacific Air Conditioning & Refrigerating

Co., 690 Market Street, San Francisco, Calif. and home is at 6417 Irwin Court, Oakland Calif. He is married and has two children CATHCART, JAMES B. IR., '39, is now with the U.S.G.S. in Florida, and can be addressed at Box 1390, Plant City, Fla.

TURNER, ROY WILBUR, '39, is with Tidewater Assoc, Oil Co. Hopkins Bldg., Bakersfield, California, and lives at 109 E Belle Ave., Bakersfield

WALDTHAUSEN, H. LORENZ, '39, formerly with the Kaiser Co., is now works manager for the Blue Diamond Co. at Blue Diamond, Nevada. MANNING, GEORGE ARTHUR, '40, is a geologist

for the Standard Oil Co. of Texas, P. O. Drawer 552, Jacksonville, Texas, His permanent address is Olinda, California,

Young, George Charles, '40, has legally changed his name which used to be Jung. He is engineer for the California Public Utilities Commission in San Francisco, Calif., and lives at 42 Henry Street, San Francisco 14.

OGLE, BURDETTE A., '42, recently left the Union Oil Co. to work for his Ph.D. at California. He can be addressed at Bacon

Hall, U of Calif., Berkeley 4, Calif. GOODWILL, DAVID, '43, is petroleum engineer for the Standard Oil Co. of California, and lives at 4325 Andy Street, Bellflower, Calif. BUSH, WILLIAM E., '44, is field engineer in

the exploration department of the American Smelting & Refining Co., Pacific National Life Bldg., Salt Lake City 1, Utah. LANDRETH, THOMAS C. JR., '47, is with the

Socony-Vacuum Co. Apartado No. 246, Caracas, Venezuela, Guico P. E. Dept. MILLER, MARC O., '47, resides at 113 So. Harlingen Drive, Harlingen, Texas,

ZETA

HAY, EARL DOWNING, Hon. Zeta, is professor of mechanical engineering, at Iowa State College, and lives at 523 Beach Ave., Ames,

BUYLER, JOHN S., '14, is a partner in the firm of Butler & Butler, 1141 S Beverly Drive, Los Angeles, California, and lives at 251 W Manchester Ave., Playa del Rey, FLETCHER, CLAUDE C., '16, is manager of the

Mortgage Loan Division, Prudential Insurand lives at 6923 Thorndyke, Mariemont,

Gibson, Woodman L., '18, is Regional Director, War Assets Administration, Chicago, Ill., and resides at 540 Iowa Street,

Oak Park, Ill. JAKOSKY, JOHN JAY, '20, is President of International Geophysics Inc. and lives at

1063 Gayley Ave., Los Angeles 24, Calif. McFarland, Paul E., '20, is a geologist for the Sun Oil Co. P. O. Box 2880, Dalas, Texas, and lives at 4512 Loraine, Dallas,

WILLIS, CECIL CUSTER, '22, is superintendent of the Oklahoma Oil, Gas & Electric Co. and lives at 2016 Carey Place, Oklahoma City, Okla.

McLeon, William S., '24, has a new address at 522 West Bldg. Houston, Texas,

PERKINS, C. E., '27, is now city manager of Winston-Salem, N. C. after more than two years with TWA.

ACKERMAN, ARTHUR TUSTEN, '26, is an executive of the Equitable Life Assurance Co. 29 South LaSalle street, Chicago, Ill., and lives at 3005 Hartzell street, Evanston,

BLACK, DON M., '28, is the father of Jean

Evelyn, born February 29, 1948, and at home at 1 Yale Terrace, Montclair, New

lersey. CAMPBELL, WILLIAM C., '29, is manager of the Kellox Corp. and lives at 1505 Sharon

Drive, Silver Springs, Md. KENNEDY, ARCHIE CURRIE, '32, is agent in charge, Northwestern National Insurance Co., Denham Bldg., Denver, Colo., and lives

ar 2101 Vermont Street Denver. MANNING, CHARLES EUGENE, '33, is assistant chief engineer, Packard Electric Div. Gen-

eral Motors Corp. Warren, Ohio, DWYER, THEODORE PAUL, '34, has moved to 6422 Indiana, Kansas City 5, Missouri,

HANDS, GLENN ELBERT, '34, is an engineer with Burns & McDonald, 107 N Linwood, Kansas City, Mo., and lives at 5225 Euclid Ave., Kansas City, Mo.

SPAHR. CHARLES EUGENE, '34, is assistant to the Vice Pres. Standard Oil Co. of Ohio, Midland Bldg., Cleveland, Ohio, and lives at 1850 Forest Hills Ave., Cleveland.

DICKIE, HERMAN FORD, '35, is assistant to the works production manager, General Electric Co., Schenectady, N. Y. and lives at 1543 Regent Street, Schenectady, N. Y.

HETER, EDWARD DILL, '37, is an engineer in the Gear Division, General Electric Co., Lynn, Mass., and lives at 18 Griffin Road.

Peabody, Mass. RUSSELL, ROBERT A., '37, is the father of twin sons born May 3, 1938, F. A. Russell, Hon. Zeta is the grandfather. Brother Russell lives at 3907 W 52nd Terrace, Kansas

City, Mo. IANZEN, HERMAN, '39, and family have returned from Brazil and he is now district engineer for the Kansas State Board of Health in Garden City, Kansas,

ROGER, RAYMOND M., '39, is now living at 209 Gonzoles Drive, San Francisco 12, Calif. Arbuckle, Thomas E. Jr., '41, announces the birth of a son, Jeffrey David, on January 13. 1948. The family home is at 8 East

27th, Hutchinson, Kansas, LARGE, RICHARD D., '41, gives his mailing address as 4715 Arvilla Lane, Houston,

ROLLERT, CARL RETTIG, '41, is engineer for the Midwest Eng. Development Co. 3543 Broadway, Kansas City 2, Mo., and lives

at 1804 Kenwood Ave., Kansas City, Mo. BENTLEY, RALPH LOCKER, '44, Lt. U.S.A. Air Corp. graduated at West Point in 1947, and can be addressed at P.O. Unit #1, Box

1497. Randolph Field, Texas. Cousins, Donald, '45, is with the National Cash Register Co., and lives at 4809 Roan-

oke Parkway, Kansas City, Mo. KENNY, FOREST ROBERT, '45, and Miss Marjorie L. Jacobsen were married in July.

They can be addressed at Ames, Iowa. LEARNED, DONALD RANKIN, '45, is research engineer. Ford Motor Co., River Rouge plant. Dearborn, Mich., and lives at 8225

Ohio Ave., Detroit, Mich. KUNKLE, ROBERT G., '47, wants his mail sent in care of The Delray Plant, Detroit Edison Co., 2000 Second Avenue, Detroit 2,

NELSON, HAROLD LEE, '47, is office manager for the Jorgenson Steel Co., 10650 S Alameda, South Gate, California, and lives at 930 East 3rd Street, Apt. 10, Long Beach,

ETA DOTEN, EVERETT, '19, is again on the operat-

ing staff, parts division of the Chrysler Corporation and lives at 6176 Bluehill, Detroit, Michigan. McCLINTIC, HOWARD, '19, is still with Fer-

guson & Edmondson, 406 Keystone Bldg., Pittsburgh 22, Pa. JUNOD, HENRY, '21, is now in the Cleveland

office of Pickands, Mather & Co. GAGE, FRANCIS DANA, '22, is with the Solar Mfg. Corp. in New York, and lives at 745

Riverside Drive, New York City. JOPE, RALPH T., '28, president of his class, has been honored by having the newest shell for the M.I.T. crew named the "Ralph T. Jope". Brother Jope is business manager of the Technology Review and lives at 7 Chesterford Road, Winchester, Mass.

HAMLIN, LAWRENCE CULVER, '29, is with the Standard Vacuum Oil Co., 26 Broadway, New York, and lives at \$106-216th street, Bayside L. I., New York.

THETA

GRANT, HORACE, '28, is engineer for the KEMP, JAMES TAYLOR, '16, is metallurgist Empire City Subway Co., 140 West Street, with the American Brass Co., 235 Montgomery street, San Francisco 4, Calif., and New York City, and lives at 114 Lafayette Avenue, Chatham, New Jersey. lives at 34 The Uplands, Berkeley 5, Calif.

WILKENS, GEORGE ALBERT, '31, is a chemical WORMSER FELIX E., '16, vice president of St. engineer for E. I. Dupont in Arlington, Joe Lead Co., was elected chairman and N. J. and lives at 500 Alma Terrace, president of the Lead Industries Association, in May, 1948.

Teameck, N. J.

Pa.

Ridge Ave., Towson, Md.

HIXSON, ARTHUR NORMAN, '33, associate prof. of chem. engr. at the University of Pennsylvania in Philadelphia, resides at 607 Hillborn ave., Swarthmore, Pa.

PEGRAM, WILLIS BRAXTON, '34, is engineer in charge of production, U. S. Time Corp. Waterbury, Conn., and lives on Orenaug

Ave., Woodbury, Conn. McCORMACK, CHARLES MORRISON, '36, is director of the mechanical research depart-

ment. Phelps-Dadge Copper Products Co. in Yonkers, N. Y. and lives at 19 Field End Lane, Tuckshoe 7, N. Y. DUMARESQUE, JOHN E., '37, is a member of

the firm of Campbell, Brumbaugh, Free & Graves, 90 Broad Street, New York City. HUGHES, CHARLES VON ODEN, '37, announces the birth of a son, Charles Van

Oden III, on January 4, 1948. He is Assist. Operations Mer. Dicalite Div. Great Lakes Carbon Corp. and lives in Hawthorne,

LUEBBERS, ALBERT V., '37, is production engineer and inspector with Melva P. Luebbers, but failed to say where.

CLAY, HARRIS A., '39, is chemical engineer for the Phillips Petroleum Co., in Borger, Texas, Persson, John, '42, moved from Niagra Falls to 1394 Sheridan Manor, Tonawanda, New

LAXAR, FRANCIS, '43, announces the birth of a son, Thomas Stephen, on August 4, 1948,

LOPEZ, KENNETH M., '43, is working as field sales engineer for M. Castellyi Inc. exporter of metallurgical machinery, 150 Broadway, New York 7. At present he receives his mail at Leandro N Alem 1350, 50B, Buenos Aires, Argentina.

MLADINOV, JOHN K., '43, is in the Highway Planning Dept., Washington State Highway Dept. Olympia, Washington.

UHRICH, WILLIAM JOSEPH, '43, is engineer for the Wilcox Electric Co., 1400 Chestnut, Kansas City, Mo., and lives at 57th & Blue

Ridge Rd. Kansas City, Mo. VIVES, DONALD, '47, sent in his address as 1512 John Jay Hall, Columbia University,

New York 27. New York. SUTTON, ROBERT M., '48, is industrial engineer for Merck & Co. Inc. Rahway, New

TILLINGHAST, JOHN A., '48, was commissioned as an ensign in the Navy in June. Home is at 225 West 246th Street, New York City.

IOTA

LONG, EDGAR C., '30, and Miss Barbara Ruth HERIVEL, HAROLD TOURTEL, '17, is concentrator metallurgist at the Morenci, Arizona, Antes were married on August 17, 1947, in unit of the Phelps-Dodge Corp. Los Angeles. He is with National Lead Co.

REILLY, JOHN G., '17, formerly managing there. director of Cia Real del Monte in Mexico, DEFOE. IONATHAN C., '31, is an engineer in has been appointed General Manager of the the maintenance department of the Soconv-Bayard, New Mexico, unit of the U. S. Vacuum Oil Co., 154 Nassau Street, New Smelting, Refining & Mining Co. York 7, and his home is at 591 Terrace

WEIMER, EARL J., '17, gives his new mailing address as 533 Ingleside Lane, Emporia, Place, Westfield, New Jersey.

SCALLY, J. E., '31, gives his address as 9 West Virginia. 9th Street, Tulsa, Okla. MACHIN, EDWIN G., '22, is general manager THROGMORTON, GORDON R., '31, is in business of the Washington County Lumber & for himself under the name G. R. Throg-

Builders Supply Co. at Nashville, Illinois. morton, General Contractor, 3011 Peale GATTS, W. P., '23, has a new home at 614 Ave., Louisville 7, Kentucky. South 11th Street, Omaha, Neb. WILSON, LOREN A., '31, lives at 929 E Elm

SCHMIDT, KARL A., '23, gets his mail at Box Street, Springfield, Mo. 1404, Houston 1, Texas. BRUEGGINGS, HAROLD J., '32, lives at 719 HERDER, H. A., '26, can be addressed at 375 Houchin Street, Jefferson City, Mo.

Argyle Ave., Emhurst, Ill. Kocst, G. J., JR., '32, lives at 1920 Hayselton McCaw, Robert, '27, gives Box 182, Camden, Drive, Jefferson City, Mo. N. J., as a mailing address. MONROE, REX, '32, has moved to 2020 Orange

BURG, LOUIS J., '28, gives his permanent ad-Drive, Whittier, Calif. dress as 224 South Morrison Ave., Collins-HUNT, T. W., '33, lives at 2522 N Calvert ville, Illinois, Street, Baltimore 18, Md.

GERBER, T. C., '28, has a new home at 247 Musson, Geo. H., '33, lives at 1037 12th Rockglen Road, Pennwynne, Philadelphia, Street, Boulder, Colo.

SHRUBSALL, A. E., '33, can be reached c/o SMITH, DANA WENTWORTH, '29, is Head of Roy Heurth, Rt. 1, Lewiston, N. Y. the Metals Division, The Glen L. Martin KOZENNY, EDWARD C., '34, gets his mail at Co., Baltimore 3, Md., and lives at 217

Box 2039, Route 6, Sappington, Mo. KOOPMAN, August P., '35, now resides at 9101 Flores Drive, St. Louis 23, Mo. MURPHY, JAMES J., '35, now resides at 6170 Pershing Ave., St. Louis, Mo.

NOLDE, GEORGE T., '35, resides at 719 Ruprecht Ave., Lemay, Mo. Hubbard, John, '36, is with the Presstite

Hubbard, Join, '36, is with the Presstite Engineering Co. in St. Louis. Home is at 3900 Cleveland Ave., St. Louis, Mo. McCarron. Donald F. '36, lives at 1324

McCutcheon, Richmond Heights, Mo.
Nations, George O., '36, lives at Foxwoods,
Route 8, North Kansas City, Mo. He announces the birth of Dennis Paul on Feb. 9,

1948.
TAYLOR, MARSHALL W., '37, is with Kirk-wood & Morgan, Inc., Box 1490, Africe,

Texas.

Evans, James D. F., '38, has left Cuba and can now be addressed at 508 South Broad

Street, Thomasville, Goorgia.

LANIER, EUGENE B., '38, is refinery project engineer with the Standard Oil Co. of N. J., Highlandrown Station, P. O. Box \$197, Baltimore 24, Maryland, and lives at 1410 lsted Road, Harundale, Glen Burnie, Md.

McCLOSKY, JOHN R., '38, now lives at 304 East 13th Street, Baxter Springs, Kansas. MULLIER, FRED M., '38, with Stone & Webster can be addressed at 660 Second Ave.,

San Francisco, Calif.

RUEMMLER, W. P., '58, has left the Battelle Memorial Institute and wants mail sent to him c/o The Eagle-Picher Co., 151 McCook Ave., East Chicago, Indiana. He announced the birth of a son, Thomas, in February 1948.

STOKES, HOMER D., '38, has his home at 1233 Elmerine, Jefferson City, Mo. STOKES, HOMER D., '38, is supt. of the

STOKES, HOMER D., '38, is supt. of the George L. Cousins Contracting Co. in St. Louis, Mo.

KIDD, HAROLD S., '39, gives his present address as 1624 N. 33rd, Omaha, Nebraska. SHANPED, INVIN E., '39, is with Shanfeld Brothers Metal Co., 1524 Converse, East St. Louis, Ill. His home address is 5629 Enright, St. Louis, Mo.

WATERS, WADE D., '39, is with the Western Brass Mills in East Alton, Illinois. He lives

Brass Mills in East Alton, Illinois. He lives at 1815 Park Ave. in Alton, Ill. Conneau, C. A., '40, can be reached c/o U. S. Gypsum Co., Box 620, El Centro, Calif.

BRUNE, ARTHUR W., '41, is instructor in the department of Civil Engineering, Washington University, in St. Louis. His home is at 3912 Pennsylvania Ave., St. Louis 18, Mo. CROCKETT, WILLIAM EDISON, '41, is ceramic

engineer for the Richard C. Remy Co., Hedley street, & Delaware River, Philadelphia, Pa. and his home mailing address is 1215 N Arlington Ave., Indianapolis, Ind. FICK, ARMIN, '41, lives at 501 N. Central,

Chicago 44, Ill.

HACKER, ALDEN G., '41, gets his mail at Box 331, Connersville, Ind. HARDINE, K. L., '41, lives at 598 Maple Ave.,

Galesburg, Ill.

HUMPHREY, JOHN R., '41, can be addressed at
Box 31, Negaunee, Mich.

Box 31, Negaunee, Mich.

KYLE, KENNETH FRANK, '41, wants mail sent to Route 2, Carthage, Mo.

STOCKTON, H. R., '41, can be addressed at 1419 S. Carr, Sedalia, Mo. TRISCH, D. L., '41, is living at 467 W

TRISCH, D. L., '41, is living at 467 W Prairie Street, Decatur, Illinois. HILL, WILLIAM E. JR., '41, is assistant supt.

of Russell, Burdsall & Ward Co., Rock Falls, Illinois. He tells of the birth of William Elmer III on November 3, 1947. LOISING, VERNON T., '42, Major USA, is re-

LOESING, VERNON T., '42, Major USA, is reported to be a graduate student at Iowa State College and living at 776 Pammel Court, Ames, Iowa.

STOWELL, ROBERT L. '42, who has been with Alcoa Mining Co. in Hillsboro, Oregon, has gone to Paramaribo, Surinam, to be at the Paranam Works of the Surinam Baswite Co. Linda Gail arrived at their home in Febru-

WOLFF, LEONARD A., '42, is now a regular officer in the U. S. Navy, and assigned to the Bureau of Ships, Washington, D. C. He planned to enter the University of Maryland and work for his Master's Degree. Home is Apt. 111, 1304 N Pierce Street, Arlington, Va. A daughter, Gail Ann arrived on September 21, 1347. COMMANN, RICHARD K., '45, has been moved

by the U. S. Gypsum Co. and mail will reach him at P. O. Box 620, El Centro, California.

Genera, Charles D., '43, received his M.S. and is now with the Carter Oil Co. and living at 505 S High Street, California, Mo. Hoey, John C., '43, has moved to 3820 Los Felix, Los Angeles 27, Calif.

JETT, GLENDON DEWEY, '43, with the Century Geophysical Corp., can be reached through General Delivery, Cotulia, Texas. McMatte, ROBERT P., '43, is back in the army and can be addressed Lt. Robert P. McMath, Co. C. 5 th. Engr. C Bn., Ft.

Lewis, Wash.
Mooney, K. H., '43, lives at 4332 A, Lexington, St. Louis, Mo.

RADAVICH, FRED, '43, graduate student at M.I.T. gives his address as 222 Hemenway Street, Boston, Mass.

RASMUSSEN, R. K., '43, has his home at 5310

Emerson Ave., St. Louis, Mo.

Rasm I. A. In '41 perts his mail at R.R.

Emerson Ave., St. Louis, Mo.
REED, L. A. JR., '43, gets his mail at R.R.
#1, Sparland, Illinois.

SPINNER, LEO G., '43, is assistant resident engineer, Division of Highways, 247 3rd Street, San Bernardino, California, and lives at 330 North Olive Street, Rialto, Calif. DICK, CHARLES A., '44, has a new address at

2590 Filmore, Memphis 11, Tenn. HOFFMAN, ALBERT JR., '44, who received his Masters in June, is now with the laboratories of Union Carbide & Carbon in Niagara Falls. His mailing address is 4120

Washington Street, Niagara Falls, New York. Jameson, R. W., '44, has changed his mailing address to 965 First National Bank Bldg.,

Oklahoma City, Okla. JENKINS, JOSEPH E., '44, has his home at 838 Adams Lane, Berea, Ohio,

PLOESSER, ALAN P., '44, lives at 4317 Hazel. Chicago, Ill. SIMONS, SANFORD L., '44, consulting engineer,

lives at 221 East Maple Avenue, Denver 9, Colorado. Stevent, O. Monnis, '44, lives at 3156 Niles

Street, Cincinnati 8, Ohio. STALEY, GLENN Ja., '44, employed by the

American Association of Railroads, can be addressed at 6702-34th Street, Berwyn, Ill. SUMMERS, R. F., '44, lives at 13220 Woodward, Highland Park, Mich.

Boyn, Roy H., '45, is engineer for the Bureau of Reclamation, Indianola, Neb.

MASSARD, ERNEST J., '45, asks that his mail be sent to R. R. 2, Box 347, Walled Lake, Michigan. LINDBERG, A. W., '45, can be reached at Rt.

3. Cuba. Mo. FRAME, RUSSELL ELLIOTT, '46, and Miss Edith Tuttle, were married in Portland, Oregon, on March 19, 1948. He is studying forestry

at Oregon State College in Corvallis, Ore. where they are making their home. MEENEN, ARTHUR R., '46, works for Mon-

santo and lives at 612 Holly Hills, St. Louis, Mo. RICHARDSON, FRED R., '46, with Carnegie

Ilinois Steel Co. can be addressed at 5751 Aylesboro, Pittsburgh 17, Pa. ALLISON, GEORGE ALVAN, '47, is a Testing

Engineer, Metalurgical Department, American Zinc, Lead & Smelting Co., in Fairmont City, Illinois, and lives at 613 N 60th. East St. Louis, Ill. GOODWIN, W. L. '47, is living at 131 Wallace

Drive, Grand Island, N. Y. JOHNSON, PHILIP D., '47, is now with the

Rock Island Improvement Co. in Peoria, Illinois, at a coal mine owned by the company. LIDDELL, J. W., '47, has completed his gradu-

ate work in photography and is now with the Eastman Kodak Co. in Rochester, New

LITTLE, JAMES E., '47, is working for the Mo. State Highway Dept. and mail should be sent to 309 West McCarty, Jefferson

MILLER, GEORGE J., '47, formerly with Geneva

Steel Co., is now Junior Metallurgist for Homestake Mining Co., Lead, S. D. PAUTLER, ROBERT E., '47, has a new address

at 1930 Keokuk Street, St. Louis 16, Mo. RYAN. THOMAS G., '47, gives his permanent address as 8624 Brinker Ave., St. Louis, Mo. SNIDER, JAMES WILSON, '47, is geologist for the Amerada Petroleum Co. Box D. Monument. New Mexico. His permanent address is Rt. 13, Box 862, Kirkwood 22, Mo.

VAN Os, JOHN, '47, announces the birth of a daughter, Karen, born August 27, 1947. He is an instructor in EE at Tulane University

in New Orleans BROWNING CHARLES M., '48, is in Texas with the Stanolind Oil & Gas Co. but for the

time being mail should be sent to him at Rosiclare, Illinois. CHANEY, JAMES B., '48, is employed by the

National Lead Co. in Malvern, Arkansas, COLLER. DONALD H., '48, is with Johns-Manville in Kansas City, Mo.

COOPER, JOHN A., '48, can be reached at P. O. Box 485. Hurley. New Mexico. DELANY, MICHAEL JAMES JR., '48, can be addressed at 5225 Wabada Ave., St. Louis 13. Mo.

LINDQUIST, ELMO G., '48, is now addressed at Box 314, Route 6 Jackson, Miss. He is engineer at a booster station being built 17

miles from Jackson. LOGAN, JAMES W., '48, is working for the Haliburton Oil Co. and can be addressed at P. O. Box 3746, Odessa, Texas.

MASTERSON, JOHN M., '48, is with U. S. Pipe & Foundry Co. in Chicago, Illinois, but mail should be sent to his permanent address 3032A N 21st Street, St. Louis, Mo. until further notice.

McMillan, William C., '48, has gone into the regular army, Capt. USA, and is stationed at the Rock Island Arsenal, Rock

NIEWOEHMER, KENNETH E., '48, has his home at 7309 Goff Ave., Richmond Heights, Mo. At the June Commencement he received the E. R. Needles award, a Denver Equipment Co. award, the Distingushied Military award.

NIEHWOEHNER, ROBERT J., '48, and Miss Mable Wilson were married on January 31, 1948. He is with the Western Cartridge Co., Alton, Ill.

RAY, ROBERT LEWIS, '48, who graduated at the University of California in May, is now employed by Joseph T. Ryerson & Son, 65th & Hollis Streets, Emeryville, Calif. REINERT, D. O., '48, is working for the RCA Victor Division, in Camden, New Jersey.

ROTHER, WILLIAM JACK, '48, is with the Standard Photo Co. in St. Louis and lives at 45 Austin Place, Kirkwood, Mo.

RUWWE, RALPH W., '48, with the geological

department of the Stanolind Oil & Gas Co. in Wichita, Kansas, lives at 621 North Terrace Drive. SCHMIDT. DONALD G., '48, should be ad-

dressed at 130 N Grant street. Hinsdale. Illinois WALKER, K. A., '48, lives at 9538 Clover-

KAPPA

LANDON, RALPH HENRY, '28, engineer for the A. T. & T. Co. Hurt Bldg. Atlanta, lives at 505 Hardendorf Ave. NE, Atlanta, Georgia.

PASHBY, ROBERT W., '32, and Margaret M. Ellington were married on July 10, 1948, in Evanston, Ill.

TIFFANY, JOSEPH BENJAMIN JR., '32, Capt.

hurst Drive. St. Louis. Mo.

FC. is Assist, to Dir. U. S. Waterways Experiment Section, P. O. Box 631, Vicksburg, Miss., and lives at 3321 Drummond Street, Vicksburg, Miss.

STEPHENS, EUGENE E., '33, was married during the summer to lean Whyte in Scattle, Washington.

LAMBDA

PARRY. VERNON FRANK, '22, is supervising engineer sub-bituminous coal section, U. S. Bureau of Mines, Golden, Colorado.

SNOW, LAURENCE E., '22, has left Copper Canyon near Battle Mt. Nevada, and is now superintendent of the American Fork development of International Smelting & Refining Co. Home is at 473 Fifth Ave., Sale Lake City, Utah.

McGrath, Maurice George, '33, is now

chief of the production branch, Colorado Raw Materials Office, Atomic Energy Commission, Delta, Colorado.

BERGH, Ross B., '34, is manager of the Patent Scaffolding Co., Inc. office in San Francisco. Mail should be sent in care of the company 270 13th Street, San Francisco 3. Bell, Marshall H., '47, moved from Youngstown, Ohio to 721 Market Street, Steubenville, Ohio,

MU

WHITLEY, ELTON C., '41, Ch.E., announced his marriage to Ioan Green on October 19. 1947, in Huntsville, Ala. Elton is located in Albertville, Alabama, and mail should be addressed there c/o P. O. Box 187.

Cobb, Joe L., '42, is construction superintendent for the firm Sullivan, Long & Hagerty, General Contractors, 2026 N 6th

Ave., Bessmer, Ala. ELLIS, ELON ELLSWORTH, '42, is a structural

engineer for Timber Structures Inc., P. O. Box 3782 Portland, Ore. Home is at 130 SE 31st Street, Portland. HAMIL, JOHN C., '42, is with the Mississippi

Products Co. in Jackson, Miss. Home with wife and three children is at 327 Woodbury Road, Rt. 9, Box 133, Jackson, Miss. IORDAN, WILLIAM D., '42, is an instructor of

mechanics at the University of Alabama. He announces the birth of a son on August 10, 1948.

MILLER, WILLIAM E., '42, gives his mailing address as P. O. Box 63, Wading River, Long Island, New York.

STOCKTON, FRED D., '42, lives at 6 DaFoe Place. Providence 6, R. L. ACKERMANN, K. G., '43, who received an-

other degree at the Mo. School of Mines this year, should be addressed at 3713 South Kenilworth Ave., Berwyn, Illinois. DITORO, MICHAEL, '43, is with General Elec-

tric in their Electronic Control Division.

His address is 537 Summit Avenue, Schenectady 7. New York. DWYER, JAMES J., '45, is employed by the Chemical Corps of the Procurement

Branch, U. S. Army in Washington. His mailing address is 1124 16th Street, N.E. Washington 2, D. C.

LEROY, JOSEPH RUSSELL, '43, is a chemical engineer for the Shell Chemical Co., Houston, Texas, and lives at 1707 Bolsover Road, Houston 5, Texas.

SAWYER, JAMES T., '43, is now employed in the engineering department of the Monsanto Chemical Co. and his home is at 1030 Christine Ave., Anniston, Alabama. CONNAWAY, MARSHALL BUSH, '25, is manager of the Connaway Safety Service Co.

and lives at 2415 Louisiana Ave., Little Rock, Ark. PEERSON, JOHN W., '26, is a partner of the firm Peerson & Hedman, Engineers, in Chattanooga, Tenn. Home is at 3305

Windsor Court, in Chattanooga. CLAUS, WILLIAM G., '31, can be addressed at R.F.D. #2, Schoharie, New York. He is a civil engineer for a contracting firm.

ESTABROOK, JAMES B., '31, should be addressed c/o DeVan Motor Co., Mobile, Ala, HALL, KEITH W., '33, development engineer for H. D. Bennett, lives at 1731 Gilbert

Road, Toledo 9, Ohio. COBB, W. F. Jr., '39, Ch.E., is the owner of the Cobb Coal Co. of Carbon Hill, Alabama, but lives in Jasper, Alabama. During the war he served in the Navy as Lt. J.G.

HOENER, RICHARD FREDERICK, '39, is an aeronautical engineer for the War Dept. Air Corps at Wright Field and lives at 1306 Epworth Ave., Dayton I, Ohio.

MORGAN, PATRICK N., '59, announced the birth of a son, Francis Scott, on December 18, 1947. Pat is an electrical engineer for the T.V.A. and lives at 605 Belvoir Ave., Chattanooga, Tenn.

Chattanooga, 1enn.
REYNOLDS, WILLIAM G., '19, Ch.E., is with
the Gulf States Paper Corp. and is assistant
production manager. The family home is
at "Rockcliff" Cottondale. Albama.

LIVINGSTON, HERSCHEE N., '40, is application engineer for the Brown Instrument Co. in Philadelphia, Pa. and his mailing address is 6135 McCallum Street, Philadelphia, Pa.

SANDLIN, PAT H., '40, can be addressed at U. S. Waterways station, Vicksburg, Miss. SCREEN, LORIN B., '40, is an engineering research analyst for U. S. Army in Washington. Home is at 4904 29th Road South.

Arlington, Va.

Youne, Dan A., '43, works as a sales engineer for the Carborundum Co. at Ningara Falls. New York. Home is at 239 South

Palis, New Jork. Home is at 239 South Nigara, Tonawanda, N. Y. BLANCIAK, A. E., '44, was married in September, 1948. He lives in Rebora Beach, California, and is working for North American

Aircraft as an aerodynamicist.

CROCKETT, DAVID W., '44, is working for
Chance-Vought. He was married to Sue
Hodges on June 14, 1948. Their address is

Route #1, Stephney, Connecticut.

KacHtckas, George, '44, is now working for his Ph.D. at Columbia. During the war he served in the Navy and then entered Stanford where he received an A.M. He lives at 11 Dover Ave. White Plains. N. Y.

SIPE, CHARLES A., Jr., '44, is in the Construction Department of Alabama Power Company. His business address is 600 18th Street N., Birmingham, Alabama, and his home address is Apt. 4, Cherokee Gardens, Birmingham, Alabama

STANDLEY, B. H., '45, announces the birth of Bryan Hal Standley Jr. on July 24, 1948. Mailing address is P. O. Box 2, Evergreen, Alabama, where brother Standley is with

the Southern Coach Co. Kizzire, James E., '46, is with the Mississippi Power Co. as construction engineer, and lives at 1340 2nd Street, Gulfport, Miss.

MOORE, JAMES H., '46, announces the arrival of a son in September, 1948. The Moores live at 510 Turrentine Avenue, Gadsden, Alabama. Bud works for the Alabama Power Company.

Power Company. REY, WILLIAM K., '46, is an instructor of engineering mechanics at the University of Alabama. He announces the birth of a daughter on August 12, 1948.

SAWYER, WILLIAM H., '46, is Flight Engineer for the Eastern Air Lines. He has recently purchased a home and can be addressed at 5931 SW 47th Street, Coral Gables, Fla. WILDER, THOMAS W., '46, is at the University

of Alabama completing work for a M.A. degree in Civil Engineering. CSHENAULT, FRANK L., JR., '47, is with the electric department, City of Decatur, De-

electric department, City of Decatur, Decatur, Alabama. GREENLEE, PAUL CALVIN, '47, is a junior engineer with the Chance-Vought Aircraft

Corp., Stratford, Conn., and lives at 20 Holland Road, Bridgeport, Conn. HAZEN, ROBERT, '47, gives his address as Gen-

HAZEN, ROBERT, '47, gives his address as General Delivery, University of Florida, Gainesville, Florida.

HYNDS, JOHN P., '47, is with the Westinghouse Electric Corp. in Pittsburgh, Pa. Permanent address is 505 So. 55th Place, Birmingham, Ala.

LAURIA, VINCENT D., '47, is now employed as junior engineer by H. Maimin & Co. in New York, his mailing address is 71-17 Austin Street, Forest Hills, New York, N. Y.

DEEP, FARRIS A., '48, is employed by the Louisville & Nashville Ry. in Nashville, Tenn. where he lives at 2206 Paterson St. Gogan, Harry L., '48, is with the U. S. Gov. Advisory Comm. on Aeronautics,

Langley Field, Va. His address is 788 Carroll Street, Buffalo, N. Y. HAND, JOHN H., '48, is with the Reichold

Chemical Co., Tuscaloosa, Ala. Hovates, Louis R., '48, is with the Commonwealth & Southern Corp. in Birmingham, Ala. Home is 7700 No. 4th Ave., Birming-

ham, Ala.

KETTH REUBEN S., '48, is employed by Air
Conditioning Engineers Inc. in Mobile,
Ala. His home is at 1201 Mt. Meigs Road,
Monteomery, Ala.

Montgomery, Ala.

McElmurex, Thomas U., 48, is with Stanolind Oil & Gas Co. Tulsa, Okla. Permanent address 1111 State Street, Batesville, Ark.

ROBINSON, Ross B., '48, is with the National

Advisory Committee for Aeronautics at Langley Field. He lives at 4 East Southhumpton Ave., Hampton, Va. TAYLOR, ROBERT L., '48, is working for the Humble Oil and Refining Co. He gives

his address as 124 W. Monticello, Brookhaven, Mississippi.

WALLACK, MARVIN, '48, is in the Construction Section of the Phillips Petroleum Company.

Section of the Phillips Petroleum Company. His address is 1025 Jennings Avenue, Bartlesville, Oklahoma. WAY, WILLIAM J., '48, is with Common-

wealth & Southern Corp. in Birmingham, Aia. He lives at 1209 No. 51st Street, Birmingham.

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FERRALL, LORIN L., '23, is with the Crucible Steel Co. at their offices 2220 Oliver Blde. Pittsburgh 22, Pa.

VAUGHAN, WILLARD STANLEY, '27, is district manager for the Bell Telephone Co., in

Pittsburgh, and lives at 304 Glendale Ave., Pittsburgh, Pa.

Davis, Paul. W., '28, is chief structural engineer, Rust Engineering Co., Pittsburgh, Pa. Evans, Henry P., Jr., '32, gives his mailing

address as 1821 N. Harding Avenue, Altadena, California. SMITH, WILLIAM A., JR., '33, moved from

Lynn, Massachusetts, to 5 Woodlawn Road,

Dover New Hampshire. HARVEY, JOHN MAXWELL, '34, is a partner of the Punxsutawney Boiler Works, and

lives at 212 S Jefferson Street, Punxsutawnev. Pa. ASBAUGH, DONALD L., '35, is a foreman for

Carnegie Ilinois Steel Co. in Gary, Indiana. CREDE, CHARLES EDWIN, '35, is chief engineer for the L. N. Barry Co., Cambridge 39, Mass., and lives at 14 Brookside Ave., Winchester, Mass.

Dana, T. W., '35, is associated with Lamp Department, General Electric Co., Nela Park, Cleveland, Ohio, and mail should be

sent to 1050 Grevton Road, Cleveland 12. ROBERTS, ROBERT BENJAMIN, '35, is a mechanical engineer with the Westinghouse Electric Corp. in East Pittsburgh, Pa. and lives at 212 Maple Ave., Pittsburgh 18, Pa.

DERVAES, ALBERT RENE, '36, is a chemical engineer with E. I. DuPont Co. in Gibbstown, N. J., and lives at 72 Jackson Ave., Gibbstown.

OMICRON

MARNER, PAUL, '24, was an Instructor in an engineer officers' school this summer. He holds the rank of Colonel in the Engineer Corps.

Howe, H. E., '26, is now with the Dannenbaum Engineering Co., Houston, Texas.

EDWARDS, FRANK W., '28, is Head of the Civil Engineering Department, Illinois Institute of Technology, Chicago, Ill. SMITH, HALWYN REYNOLDS, Omicron '30, is

chemical engineer for the Bonneville Power Administration, Portland, Oregon, and lives at 780 N.E. Laurelhurst Place, Portland 13. ASCHENBRENNER, LEO, '32, is a chemical engineer with West Vaco Chlorine Co. in

South Charleston, West Virginia. BLASER, WILFRED A., '32, resides at 2421 Le Claire St., Davenport, Iowa.

SAYRE, REX, '37, who is with the lowa-Illinois Gas & Electric Company in Daven-

port, stopped in at the Gear office on his way

STATESON GRAHAM '16 is now division sunt. Linde Air Products Co. 114 Sansome Street, San Francisco Calif., and lives at 215 Cuardo Ave., Millbrae, Calif.

TUTHILL, ARTHUR FREDERICK, '38, is assist. prof. of M.F. at the University of Vermont. Burlington, Vt., and lives at 78 E. Fort Ethan Allen, Winooski, Vt.

Fowares Davin G. '19 has a new address. Ir's 810 Tenth Street, Antioch, California,

FLANCETY ROBERT '41 is design engineer. Miller Printing Mach. Co., 1117 Reedsdale, Pirrshureh 12. Pa. and resides at 467 Serpentine Drive, Pittsburgh 16, Pa.

HORIGAN, DANIEL LEE, '42, is eastern field engineer for the Cone Drive Div. Michigan Tool Co., Englewood, N. J., and resides at 275 Engle Street, Englewood, N. J.

MARGERUM, GEORGE M., '42, structural engineer, Koppers Co. in Pittsburgh, Pa. is living at 4015 Ninceton Street, Pittsburgh 14, Pa. BELLAN, THEODORE MYLES, '44, is engineer

for the McDonnell Aircraft Corp. in St. Louis, Mo., and lives at 9032 Guthrie Ave., Overland, St. Louis, Mo. DUFF. SAMUEL E., '46, wants his mail sent to

143 E 39th Street, New York 16, New York. LOPER, DWIGHT R., '47, is materials engineer

for the Standard Oil Co. of California and resides at 133 Echo Ave., Oakland 11, Calif. MEIERDIRKS, JOSEPH B., JR., '47, has joined the Thomson Laboratories of the General Flectric Co. and may be addressed at 842 Hermosa Ave., Cincinnati 5, Ohio.

to Coralville where he is in charge of construction work on the Coralville Dam. STEARNS, RAYMOND, G., '38, who is employed with the U.S. Engineers at Rock Island, is

Secretary of the Tri-Cities Section of ASCHENBRENNER, PAUL, '40, is employed as a

Sanitary Engineer with the U.S. Government at Chanute Field, Illinois, His mailing address is 325 Congress, Rantoul, Illinois. BRIGHT, KENNETH M., '48, gives his address as 321 Bartlett St., Muscatine where he is employed at the Stanley Engineering Co.

DEVINE, GLEN D., JR., is in the Product Engineering Department of the National Carbon Co. at Red Oak, Iowa. HARTZELL, CLYDE E., JR., '48, is with General

Electric in Erie, Pennsylvania. His address is 414 Lincoln Avenue, Eric. HOGAN, EUGENE, '48, is with General Electric

in Erie, Pennsylvania.

HUDACHEK, HAROLD A., '48, is a Junior Test Engineer with the Thomason Products, Inc. His address is 2382 Green Road, Cleveland 21. Ohio.

LANGENDOEN, JOHN M., '48, is an assistant engineer in the Methods Department of the Western Electric Co. in Allenstown, Pennsylvania. Home is at 29 West 4th St., Apt. 2E, Bethlehem, Pennsylvania.

MAYO, WILLIAM H., III, '48, can be addressed at 5355 N. Kimball Avenue, Chicago 25, Illinois. He is with the Republic Flow Meter Co.

DI

HARMAN, L. C., '23, is a research engineer for the C. & O. Railway Company in Richmond. His address is 3211 Edgewood Avenue, Richmond, Virginia.

KNIGHT, ELMER, '23, is secretary-treasurer of Knight Inc., Reidsville, N.C., which he organized in 1946 after his return from active duty with the Army Corps of

TAYLOR, FRANCIS W., '24, is with Warren Fish Company, Inc., Box 270, Pensacola, Florida. BOWLES, J. W., '33, resides at 511 N. Boule-

Bowles, J. W., '33, resides at 511 N. Boulevard, Richmond, Virginia and is district traffic supervisor with the Chesapeake & Potomac Telephone Co of Virginia.

CARSON, JAMES S., '34, is chief of incendiary Fuel Research at Edgewood Arsenal, Maryland and lives at 666 Congress Avenue, Havre de Grace, Maryland

WATKINS, JOEL H., JR., '34, is an electrical engineer with Slaughter, Saville, and Blackburn, Inc., a consulting engineering firm located at 8th & Main, Richmond, Virginia. His address is Belmont Road, RD # 11.

Box 485, Richmond.

Balland, L. W., '55, is selling heavy apparatus
for G. E. in Philadelphia and lives at 2939
Morris Road, Ardmore, Pennsylvania.

Morris Road, Ardmore, Pennsylvania. HANCOCK, J. B., JR., '31, operates a Stamp & Coil Shop for Collectors at 112 North 1st,

Richmond 19, Virginia.

LAGIGLIA, JOSEPH L., '35, is the owner of two retail shoe stores in Norfolk, His address is 514 Main Street, Norfolk, Virginia.

DANIEL, R. M., '36, asks that his mail be sent

to 35 N. State Road, RD # 1, Media, Pennsylvania. FITZPATRICH, R. W., '36, is an engineer for

the C. & O. Railroad. His mail may be sent to 214 Overbrook Road, Apt. #5, Richmond, Virginia. WHITE, GEORGE F., '36, head of Stand-

ardization, Control, and Plant Service Works with the Reynolds Metals Company, Foil Division of Research Department, Richmond, resides at 15 Rio Vista Lane, Richmond, Viriginia.

CARRUTHENS, WILLIAM B., '37, gives his address as 505 First National Building, Birmingham 3, Ala. He is salesman for the Aluminum Company of America in Birmingham. GILCHRIST, BARTH, '37, a representative for the Gustin-Bacon Manufacturing Company, 230 Park Avenue, New York, lives at 320 E. 42nd Street, Apt. #2701, New York City. QUARLES, VERNON, '37, is a chemical (organic) engineer with DuPont, and lives at

Gibbstown, New Jersey.

STARKE, VINCENT W., '37, wants his mail sent to 1515 Park Avenue, Baltimore 17, Maryland.

Maryland.

OLSEN, LLOYD, '38, is a process engineer in design with the E. I. DuPont Co. in Wilm-

ington, Del.

Patterson, John L., '38, asks that his mail be sent to Route #3, Box 413, Meribeth

Lane, Hampton, Virginia.

DUNN, EOWIN B., '39, is living at 208 Dickenson Avenue, Swarthmore, Pennsylvania.

MASON, EDWARD, '39, formerly with West-

MASON, EDWARD, '59, formerly with Westinghouse, is now with the Electric Motor Repair Co. of Richmond, Va.

PATTERSON, JOHN L., '39, is an aeronautical scientist at Langley Field. His address is Route 3, Box 413 Meribeth Lane, Hampton, Viriginia. WARD, JOHN T., '39, lives at 417 New

Hampshire Avenue, Norfolk, Virginia.

BALL, PHILLIP S., '40, lives at 1503 W. 91

Street, Chicago 20, Illinois. He is aerodynamicist for Ordinance Research No. 1,
University of Chicago.

BITNER, JIM, '40, lives at 1500 North Gate Road, Baltimore 18, Maryland, Brother Bitner is engineer at Glen L. Martin.

SIDEBOTTOM, J. H., '40, is with the Industry's National Trade Association, Aircraft Industries Association, Washington, D.C. Mail reaches him at 5400 Glenwood Road, Bethesda 14, Maryland.

Peters, Carl W., '41, lives at 1614 Warwick Avenue, Whiting, Indiana. THOMAS, JERRY L., '41, lives at 1407 Dela-

ware Avenue, Wilmington 35, Delaware, ASHBY, CHARLES W., '42, is sales engineer with Line Material Company in Birmingham and gets his mail at P.O. Box 314, Birmingham, Alabama.

RATHBUN, KENNETH C., '42, who taught at Clemson is now back at the University of Virginia as Assistant Professor of Mechanical Engineering. His address is 13 Summit Street, Maury Hill, Charlottesville.

Street, Maury Hill, Charlottesville. BROWN, CHARLES L., JR., '43, wants his Gears

sent to #6 Stuyvesant Oval, Apt. 7H. New York 9, New York. KINNIER, HENRY LEE, '42, lives at 400 Mon-

roe Lane, Charlottesville, Virginia, Mason, Junes L., '42, and Miss Helen E. Grimm of West Orange, N.J., were married

July 17, 1948, in the chapel of Christ Church, Charlottesville, Va. The Right Reverend Roy W. Mason, Bishop of Virginia, and father of the groom officiated. Julien is research engineer for Westinghouse and the couple are living in Bloomfield, New Jersey.

MAY, JAMES EDWARD, '43, assistant professor of mechanical engineering at the University of Virginia, has a daughter Sheridan Lee.

born in September 1947. MILLER, E. S., '43, is quality control engineer for Eastman Kodak and lives at 20 Portsmouth Terrace, Rochester 7, New York.

MILLIGAN, Jim, '43, resides at 535 82nd Street, Niseara Falls. New York. He is development engineer with E. I. DuPont de-

Nemours. TALBOY, STUART, '43, is with the Peoples Gas Light & Coke Co., 122 South Michigan

Ave., Chicago, Ill. Woon, W. D., '43, wants his mail sent to 705 Grace Street, Richmond, Virginia, He is a bridge engineer with the C. & O. Railway Co.

SNELL, JHON S., '44, is assistant to the vice president of the ACF Brill Motors Company, Philadelphia 42, Pa.

KELLY, WILLIAM M., '45, resides at 308 Wagner Circle, Norfolk 2, Virginia, He is in charge of surveys for Myron A. Sturgeon, Consulting Engineers,

STULTING, IDM, '45, is an electrical engineer with Celanese Corporation of America and gets his mail at Box 692, Pearisburg, Vir-

GARVIN. ROBERT M., '46. is a 2nd Lieutenant Cav. 0500712, 188 PIR-11 Abn Div. APO 468 -1, San Francisco.

Nichols, T. J., III, '46, as assistant engineer for the Virginia Fire Insurance Rating Bureau, lives at 5200 Evelyn Byrd Road,

Richmond, Virginia, STALEY, WARNER, W., '47, resides at 1031 Thomas Road, Harundale, Glen Burnie, Maryland. He is with the Barlett-Hayward

Division of Koppers Co., Inc. WHITLACH, JAMES BUCKLEY, '47, and Miss Nancy Adams of Greenway Farms, Afton, Virginia, were married on June 5, 1948. He joined the staff of the Institute of Textile Technology as a mechanical engineer for the summer and in the fall they planned to go to England where he will resume his

studies at Oxford as a Rhodes Scholar. BARNES, R. L. '31, gets mail at Westmoreland Ave., Charlotte, N. C.

CALDWELL, RALPH M., Jr., '31, is foreman of the Cold Storage Dept. U. S. Marine Corps, Camp Lejune, N. C. and lives in Jacksonville, N. C.

BARRIER, GEORGE L., '32, can be reached at Mt. Pleasant, N. C.

FRANKLIN, LOUIS OCTAVIOUS, '32, is manager of the Filtration Plant for the City of Orange, N. J., and lives at 25 Sheridan Ave., West Orange, N. J.

RICKS, HENRY, '32, has the Kaiser-Frazer Agency in Roanoke Rapids, N. C. LIPPARD, ARTHUR RALPH, '33, is engineer

chief for the Dept. of Interior, Bureau of Reclamation, Grand Island, Nebraska, PETROFF, BORIS B., '33, is living at Apt. A-192, 2716 29th St. SE, Washington 16,

D. C. He is with the U. S. Public Roads Administration ROYAL, JAKE A., '33, gives his present address as 231 49th Stret, Newport News, Virginia.

TEW, ROLAND E., '33, is Division Engineer for S. A. L. Railroad Co., Americus, Georgia. RYDINGSVARD, THOR F., '33, can be addressed

at Center Hill Dam, Baxter, Tenn. YOST, LUTHER F., '33, is now in Albuquerque,

New Mexico.

RHO

INSCOE, EDWARD EVERETT, '22, is electrical design engineer for the Bureau of Roads and Docks in Washington, D. C. and lives at 8110 Carroll Lane, Silver Springs, Md. BANGS, A. C., '24, is now living at Apr. B. 2244 Circle Drive, Raleigh, N. C. He is

with Westinghouse Electrical Supply Co. FOX. WILLIAM HENRY, '25, lives on Hill St., Ft. Mill, South Carolina.

GRIFFITH, J. E., '26, resides at 25351/2 Маеnolia Ave., Knoxville, Tenn. LUTHER, R. W., '26, is with the City Water Works, Elizabeth City, N. C.

Woods, John S., '27, wants mail sent to Box 1469, Raleigh Heights, Bechley, West Vir-

ginia. DAVIS, JEFFERSON C., '28, lives at 3941 East Desmond Lane, Tucson, Ariz. SULLIVAN, HUBBARD L., '28, gives his address

as 2645 River Rd. NW, Atlanta, Ga . BARNHARDT, MARSHALL LUTHER, '29, is with the Phoenix Bridge Co., Phoenixville, Pa. GRANT, THOMAS ALEXANDER, '29, is manager of Leggetts Department Store in Staunton, Virginia, and mail for him should be sent

to P. O. Box 928, Staunton. IONES, D. E., '30, can be addressed at the Roosevelt Hotel, New Orleans, La.

WORTH, EUGENE B., '30, lives at 2325 Al-gonquin Parkway, Louisville, Ky.

COFFEY, JACK W., '34, wants mail sent to Box 1089 Lumberton N C

ROGERS, CHARLES N., '35, gives his home address as 1722 Home Ave., Hartsville, S. C.

ROPER, ELLIS L., '35, is now located in Baltimore, Maryland, and has his home at 721 Howard Road.

SCOTT, FREDERICK T., '36, lives at 13316

Kingston, Huntington Woods, Mich. HULAK, SAMUEL M., '37, lives at 32B Packard Court, Niagara Falls, N. Y.

ANTON, ROBERT F., '38, lives at 81 Newfound St., Canton, N.C. TERRELL WILLIAM S. III '38 Major II S.A.

is now at Ft. Riley, Kansas. HAYWORTH, M. S., '19, lives at \$28 W. Haven

Blvd., Rocky Mount, N.C. BLOUNT, THOMAS H., JR., '40, wants mail sent to 450 Dallas St., Morgantown, West

Virginia. GREGG, P. P., '40, wants mail sent to Box 13. Boydton, Va.

KOLARIK, THEODORE, M., '40, is in the laboratory of the Aluminum Co. of America. New

Kensington, Pa. TRUSLOW, FRANK O., '40, is at 104 Shepherd

St., Raleigh, N.C. ANDREWS, RAY CLARK, '41, is in the Roll Design Dept., Bethlehem Steel Co., Steelton, Pa. Home is 363 Locust St., Steelton, Pa. Fox, Harrison W., '41, gives his address as 2620 8th Avenue, North, St. Petersburg, 6,

Florida. GRAY, THOMAS L. '42. lives at 4044 Avolon

Ave., Charlotte, N.C. HATHAWAY, I. B., '41, who was a Major in the army, is now addressed at 10 Milliken

Road, Savreville, New Jersey, JOHNSON, WILLIAM SUMPTER, IR., '42, and and Helen Isabel Mars, daughter of Mrs. Rosa L. Mars of Gresham, Titusville, Pa., were married in Glendale, California, on March 19, 1948. He received a MS in June at the Daniel Guggenheim Graduate School at the California Institute of Technology in Pasadena, California, and they are at home at 307 South Oakland Ave., Pasa-

dena 5. Calif. LAMBE, THOMAS WILLIAM, '42, is in the C.E. Dept., Mass. Inst. of Technology, Cambridge 39, Mass.

LIGHT, EARL TYEDREW, '42, can be reached through Box 2906 West Palm Beach, Florida.

STOUT, PAUL ELS, '42, lives at 1005 Lindsay St., High Point, N.C. FARTHING, EDWIN HAROLD GLENN, '43, lives

at 1001 Pamlico Drive, Greensboro, N.C. HETHERINGTON, IRVINE J., '43, lives at 8

Fleetwing Drive, Bristol, Pa. HUGHES, T. M., '43, lives in Fernandina, Florida.

RHYNE, CHARLES, JR., lives in Newport, Tenn.

BARNES, FLOYD P., '44, can be addressed at Rt. 4. Henderson, N.C.

GOODRUM, W. I., '44, was appointed assistant works manager for Spencer Kellogg & Sons, manufacturers of oil refinery equipment in Long Beach, California, as of July 1. 1948

HEFFERNAN, JAMES A., '44, and Miss Elizabeth Norwood Langley of Greensboro, N.C., were married on July 3, 1948. He is with Sanderson & Porter, Engineers, Baltimore,

URASH, ROBERT U. M., '44, is now with the U.S. Corps of Engineers, Garrison Dam

Project, Bismarck, N.D. DEAS, JAMES E., JR., '46, is working on a fuel

oil evaluation project with the Department of Engineering Research, North Carolina State College. He was married June 5, 1948 to Miss Lois Clarke and they are now living at 600 Williard Place, Raleigh, North Carolina. Mail should be sent to the Department of Engineering Research, North Carolina State College, Raleigh,

FISLER, CHESTER A., '46, and Miss Mary Jane Stewart, were married in Pittsburgh, Pa., on December 20, 1947. He is in the Dayton. Ohio, office of Westinghouse Electric Corporation, and lives at 32 N. Main St., Dayton 2. Ohio.

FUGATE, PATTON C., JR., '46, lives in Elm City, N.C.

HEPLER, JAMES S., '46, has his residence at 1232 W. Wendover Ave., Greensboro, North

Carolina. Bowen, Earl G., '47, wants mail sent to 425 Jefferson St., Plymouth, N.C.

MENIUS, E. FLYNN, Jr., '47, lives at 811 S. Garhett St., Henderson, N.C.

RICH, MARSHALL M., '47, whose home is in Raleigh, N.C., has been awarded a one year scholarship by the Automotive Safety Foundation at Yale University, Graduate

WOODALL, WILLIS LESTER, '47, can be reached at Box 2895, Greensboro, N.C.

Bannes, Vernon M., Jr., '48, asks that his Gears be sent to Willis Street (Lee St.) BERRIER, JOE H., '48, is employed by Frank

Miller, Consulting Engineer, and lives at 1803 West Market St., Greensboro, North

HELMS, IRA L., JR., '48 gives his address as 3026 Brighton St., Portsmouth, Va. HINKLE, ROBERT C., JR., '48, is at 20 E. 1st

St., Lexington, N. C. MEARES, MERLIN A., '48, should be addressed at 1516 Jarvis St., Raleigh N. C.

ROE, WILLIAM C., '48, lives at 211 Confederate Street, Fort Mill, South Carolina,

SCHMIDT, ROBERT, '48, was designated as the outstanding student in the engineering college and was awarded a gold watch at the time of graduation. During the war he was a fighter pilot in the air-corps.

a fighter pilot in the air-corps.

Stone, Grey Ellis, '48, and Alice Dunn

Spencer of Raleigh, N. C., were married on June 19, 1948. TESER, STANLEY A., '48, lives at 46 State St.,

Penns Grove, N. J. WHITFIELD, GEORGE B., '48, gives his address as 147 S. Randolph Ave., Asheboro, N.C.

SIGMA

HARDING, GEORGE H., '26, member of the C.E. faculty at Ohio State was one of 14 U.S. delegates to the 6th International Photogrammetry Congress at The Hague, Netherlands, in Sentember, 1948.

BUCKLEY, JOHN A., '32, has been appointed assistant manager in the plastics division of the General Electric Co. Chemical Division.

Pittsfield, Mass. Bowen, Joseph Malcolm, '34, is County

Engineer in Selby County, Ohio, and lives at 15 Doorley Street, Sidney, Ohio. GIVEN, DONALD M., '42, and Miss Dorothy J. Ranck were married in Columbus, Ohio, on March 20, 1948. WHITSETT, JAMES J., '42, announces the birth of a son, Peter, on Feb. 20, 1948, in Cleveland, Ohio, where he is a structural engi-

meer with the Austin Company.

DANYLUKE, OSTAP, '45, formerly of Warren,
Ohio, is now designer for the Pennsylvania
Crusher Co., in Philadelphia 7, Pa. 1151

Crusher Co., in Philadelphia 7, Pa., 1351
Arch St.

PRINCE, WILLIAM RICHARD, '43, of Westlake,

Ohio, announces the birth of a son, Thomas Richard, on October 3, 1947. JOHNSON, WILLIAM R., '44, and Miss Frances Carver were married on June 12, 1948, in Charleston, West Virginia, where they are now living.

TAU

OERTEL, ROBERT W., '37, sent in his address as 209 Chaffee Avenue, Syracuse 7, N. Y. WADSWORTH, ARTHUR J., '38, asks that his mail be sent to Box C-142, R. D. #1, Tuiunez, California.

FULLER, ATWOOD L., '48, asks that his GEARS be sent to 1222 Kentucky Avenue, Louisville, Kentucky.

ville, Kentucky.

KUNZELMAN, GEORGE R., '48, lives at 309

Malverne Drive, Syracuse 8, New York.

LIPSII ON

HUCKABY, THOMAS LEE, '28, is chief of the inspection branch, U. S. Engineers Office, Union Central Annex, Box 1119, Cincinnati, Ohio, and lives at 23 Tower Hill, Ft. Thomas, Kentucky, THOMASSON, HORACE GORDON, JR., '32, is

THOMASSON, HORACE GORDON, JR., '32, is assistant hydraulic engineer, Ground Water Div., U.S. Geol. Survey, and can be addressed at 5373 East 2nd Street, Long Beach 3, Calif.

IBISON, JAMES LOUIS, '37, is branch manager of the Sturtevant Division, Westinghouse Electric Corp., in Houston, Texas. He lives at 2812 Tangley Ave., Houston.

PITTMAN, EDGAR ANSEL, '41, has moved from Washington, D. C., and lives at 1125 Roosevelt Ave., Tyler Park, Falls Church, Va. SMITH, NORMAN LESLIE Js., '41, is in the en-

gineering laboratory General Electric Co., 1 River Road, Schenectady, New York, and lives at 2088 Caldector Road, Schenectady. CARTER, GERALD ROBERT, '45, is associate engineer, Marion L. Crist & Co., 508 Union Life Bldg., Little Rock, Ark., and lives there at Apt. 2, 1707 Louisiana Street, Little Rock, Ark. PIERCE, JESS N., '46, lives at 721 E. Armour, Kansas City. Mo.

HESTER, ROBERT L., '47, asks that mail be sent to Route 2, Box 170, Troup, Texas.

LVLE, H. T., '48, Regent last year was compelled to leave college before graduation of the common of the state of the common of the such improved in health and is in the office of the Stanolind Oil & Gas Co., Albusquerque, New Mexico. Mail should be sent to 1107 North 12th Streer, Albu-

McKeehan, Maclyn, '48, is attending M.I.T. on a scholarship. He graduated with honors in June.

REYNOLDS, JOSEPH JR., '48, is now located at 203 Moffet Avenue, Joplin, Missouri. THOMPSON, BERT B. JR., '48, and Dorothy Bush of St. Joseph, Mo. were married on August 14, 1948. They can be addressed at Magnolia, Arkansas.

PHI

BOWER, HOWARD F., '32, sent in the following mailing address: 318 East Masterson Ave-

nue, Fort Wayne S, Indiana.
CONNELL, LUOP LER, 192, is Technical Director for the Stoker Mfg. Association 307
N. Michigan Awe, Chicago 1, and lives
1026 Hickory Road, Homewood, Illinois.
MARSHALL, HAROLD BENJAMIN, '33, is staff
engineer, Trundle Engineering Co., 1501
Euclid Ave, Cleveland 15, Ohio, and gen

his home address as 233 Manor Ave., Elkhart, Indiana.

ZEIS, LAWRENCE A. '47, saks hear his mail he

sent to 5065 Claxton Avenue, St. Louis 20, Missouri.

CASILLAS, FRANK, '48, is with the Reith Riley Construction Co., Goshen, Indiana. CHRISTEN, EUGENE, '48, is reported to be in Pittsburgh, Pa., but gives his address as 7014 Forest Ave., Hammond, Indiana.

CHI

BUTLER, BERT S., Honorary, head of the department of geology at the University of Arizona, retired on July 1st, but will continue to give half of his time to the university.

HAMPSHIRE, CLAUDE C., '26, has left Alaska and is now district hydrologist for the Kansas River District, Misouri River Basin Project, Bureau of Reclamation, Indianola, Nebraska.

ROBERTS, F. CARLYLE, '30, now with the U.S. Public Health Service at Washington, D.C., has been promoted to the rank of Lieutenant Colonel and is being transferred to a South American assignment in Brazil.

BOOMER, L. J., '33, gets his mail at 616 D. Street, Davis, California.

BUTLER, GORDON M., JR., '33, is senior engi-

neer in the research division of the Carborundum Co., Nigara Falls, New York. Germanot Alvin W., '33, is with the U.S. Bureau of Mines, Univ. Sta., Tucson, Afric. COUDY, WILLIAM KINDAR, '34, is with the U.S. Coast & Geodetic Survey in Los Angeles so headquarters, and gives his home

address as 5213 Ledgewood Road, South Gate, California. Ponspond, George A., '34, is now living at

901 E. College, El Paso, Texas.

POTTER, GEORGE M., '35, is a metallurgist in the foreign branch of U. S. Bureau of Mines in Mexico. Mail should be sent to his personal address Calle de Secreta 28, Villa

Obregon, Mexico, D. F.

HARDWICK, WILLIAM R., '36, is now with
the engineering department of the Kennecott Copper Company at Ray, Arizona.

MICHAELSON, JAMES P., '36, is employed

by Civil Aeronautics Administration as Chief, Processes Unit, Materials & Processes Section, Airframe & Equipment Engineer Division. His current mailing address is 715 S. Washington St., Alexandria, Va. Con, Pracy E., '37, is with the U. S. Bureau of Reclamation and lives at 1707 W.

Heatherbrae Drive, Phoenix, Arizona.

HILLER, AUSTIN DEAN, '37, is engineer for
The Bechtel Corp., 4620 Seville Ave. Los

Angeles 11, California, and lives at 1558 West 110th Street, Los Angeles 44, Calif. LYNN, Richard Hanolo, '38, is owner and manager of the Base Line Automotive Co. in San Bernardino, California, and lives at 559 Highland Ave.

Moos, Stanley M., '38, is a manufacturer's representative with offices at 100 Texas Street (P.O. Box 321), El Paso, Texas.

Street (P.O. Box 321), El Paso, Texas. Morrison, R. G. Jr., '38, lives in El Dorado, Kansas.

RABB, David Daniet, '38, Research Engineer, Battelle Memorial Institute, 505 King Street, Columbus, Ohio, lives at 399 Glenmont Street, Columbus.

Boncquist, Neil., '39, has a son, Arthur Neil, born September 16, 1947, in Fresno, Calif. Sohrn, Henry M., '39, gives his mailing address as 2237 E. Independence, Phoenix, Arizona.

STEVENS, VICTOR DOUGLAS, '39, announces the birth of a second child, Floyd Douglas, in Phoenix on May 14, 1948. Home is at \$155 S. 3rd Ave.

WEST, LAMONT, '39, has been made superintendent of the Deming Mines, at Deming, New Mexico, owned by the General Chemical Division of the Allied Chemical & Dye Corp. He gets his mail at P.O. Box 185.

Deming.

CALDWILL, EDWARD J., '40, smelter superintendent for the Magma Copper Co.,

Superior, Arizons, has a new son, David

Francis, but we do not know the date of hirth.

GARRETT, HARRY J., '40, of Harlingen, Texas, informs his brothers that he has a new daughter, Kathryn Louise, born December 3, 1947.

McKax, John Edward, '40, is superintendent of the 79 Lead-Copper Co., Box 1164, Hayden, Arizona. He announces the birth of a son, Thomas Fraser, on May 10, 1948. McPherssoon, John B., '40, Lt. Col. USA is at Hdq. 8th Air Force, Caswell Air Force

Base, Ft. Worth, Texas.

Walsen, Paul L., '40, tells of the birth of
a daughter, Barbara Lynn, born April 25,

1948, in Brooklyn New York The family home is at 819 President Street, Brooklyn

ZERFOSS, GEORGE F., '40, with the Phelos-Dodge Corp. in Morenci. Arizona, says he has a daughter, Georgann, born April 8.

KNIGHT, ALEXANDER, '42, is employed in the Bureau of Construction & Maintenance of the City of Los Angeles, and lives at Hermosa Beach, California,

RABOGLIATTI, EDWIN H., '42, and Miss Lillian Blachkath, were married on May 29, 1948 in Erie, Pa.

SULLIVAN, I. B., '42, is working with the Westinghouse Electric Corporation as Supervising Engineer on new installations and services in the south. His address is 985 Carmel Avenue, N.E., Atlanta, Georgia.

WEST, HORACE B., '42, Lt. USN, is at the Naval Air Station, Pensacola, Fla. DUNAWAY, REECE L. '43, has moved from

Coolidge, Arizona to 112 South 18th Street, Montebello, California.

KOMADINE, GEORGE A., '43, since getting an M.S. in Metallurgical engineering from the University of Arizona, accepted a position as assistant metallurgist to Brother Tom King, '43, for Eagle-Picher M & S Co. at their Central Mill. Mail should be sent to 301/2 F St., N.E., Miami, Oklahoma.

Myers, EDWARD L. '43. Lt. U.S.A., Grovnville, S.C., has a son, Peter Douglas, born March 13, 1948.

SCHOLZ, EDGAR ARTHUR, '41, has left the

Ruby Gulch Mining Co. in Montana to be-

PALICIO, FIRMIN, IR., '43, has a new address at 2737 Ross Ave., Alhambra, California. ANTHONY, JOHN W., '46, is with the Arizona

Bureau of Mines, University station, Tucson, Ariz. MALICK, MAURICE LEROY, '46, is engineer with Allis-Chalmers Mfg. Co. in Milwaukee, and lives at 1349 N. 28th Street,

Milwaukee. McGeorge, Robert, '46, is working in El Paso. Texas, where the family home is Apt. 153, 4200 Pierce Street, El Paso, Texas, MOSIER, PETER, '46, announces the birth of a

daughter, Marianne Ruth, April 28, 1948, in Bisbee, Arizona. NEWLIN, PHILIP B., '46, can be addressed

c/o Dept. of CE, University of Arizona, ALDRICH. RICHARD W., '47, is employed by

the Magolia Petroleum Co. in the geophysical department at Roswell, New Mexico. LEVIN. SIGMUND L., '47, is working at the

Los Angeles County Flood Control district as Junior Civil Engineer. His address is 4061 Rhodes Avenue, North Hollywood, Calif.

CREIGHTON, DAVID E., JR., '48, wants his mail sent in care of the U. S. Bureau of Reclamation, Design & Construction, Sacramento, Dozzen, Joz D., '48, announces the birth of

a daughter on May 18, 1948, in Tucson. Hood, Kenneth C., '48, is a junior electrical engineer with the Central Arizona Light & Power Co. in Phoenix, Arizon.a

come superintendent of the Hillside Mining SHUE, GEORGE L., Honorary, has a new home address at 603 Bonifant Street, Silver & Milling Co. at Bagdad, Arizona. SULLIVAN, ROBERT E., '47, is working in the Springs, Maryland. He is chief of the Aerometallurgical research department of the dynamics Subdivision, Naval Ordanance Permanente Metals Corp., Trentwood, Laboratory. Spokane, Wash.

SEIDEMAN, RALPH, '34, is selling Thor min-WHITMAN, JUDSON, '47, and FRANCIS SMITH, ing equipment and lives in Coeur D'Alene, '47, are still being addressed at Ketchikan, RICH, CAMERON ANDERSON, '39, is president Alaska. Whitman is metallurgist for the

Mahoney Zinc Mine, and Smith is mining of Clay Products Inc., Anchorage, Alaska. JANCIC, THOMAS, '40, has been appointed engineer there. superintendent of the Burro Mt. Branch. BURNS, R. L., '48, and E. M. GILMORE, '48, Phelps-Dodge Corp., Tyrone, New Mexico. are both with the Oliver Iron Mining Co., He has been at the Cole shaft in Bisbee for Wolvin Bldg., Duluth, Minn.

the same company. OLSON, STANLEY G., '48, is geological engi-PICKARD, JOSEPH WYMAN, '41, is sales engineer for the Continental Oil Co., Ponca neer for the Ingersoll-Rand Co., North City, Okla. Plainfield, New Jersey.

JOHNSON, HAROLD NILS, '49, Psi #188 has been transferred by Psi and has formally affiliated with Iota chapter.

OMEGA

WILLARD, JOHN WESLEY, was initiated by 1948. He obtained his degrees at Purdue Omega as an honorary member on May 12, and is Asst. Prof. of Chemistry at the

S. D. School of Mines. Home is at 325 Ouincy Street, Rapid City, S. D. HAGMAN, WAYNE, '32, is associate structural

engineer. Los Angeles Bureau of Power & Light Co. Mail should be sent to 924 Verdugo Circle Drive. Glendale 6. Calif. MUNSON, GERALD A., '33, has left the U.S.

Bureau of Mines and is associated with Julian Staven, consulting engineers, 623 1/2 St. Ioe Street, Rapid City, S. D.

FORCHTNER, JAMES, '35, reports the birth of a son, James Frederick, on April 17, 1948. The family is at 1422 South 48th Street, Omaha 6. Neb.

FOSTER, HAROLD CLELLAN, '17 is assistant city engineer of Chula Vista in San Diego County, California. His mailing address is

P.O. Box 793. GREMMELS, WILLIAM, '37, with the U.S. Corps of Engineers is now at Pickstown,

MUCKLER, DONALD B., '38, is mining engineer for the Oliver Iron Mining Co. He reports the birth of a daughter, Melissa, born April 18, 1948. The family home is at 1307

Fifth Ave. North Virginia Minnesota TRANTINA, JOHN A., '38, with the U.S. Corps of Engineers, is at Pickstown, S. D. DAVIS, ROBERT, '39, district engineer for the Rome Cable Co., has purchased a home at

7207 West 86th Street, Overland Park, Kansas. FLAIGG, NORMAN GAIL, '39, sent notice of the arrival of a son, Don Allen, born September 16, 1947. Norman is engineer for the U.S. Bureau of Reclamation in Oklahoma City.

Oklahoma, and the home address is 425 NW 29th Street, Oklahoma City. KINGSBURY, WILLIAM ASA, '39, is District Engineer for the S. D. State Highway Dept.

and lives at 15251/2 Summit Blvd., Rapid LINDLEY, BURTON WILLIAM, '40, is Official

in Charge of the U.S. Weather Bureau Office, in Fairbanks, Alaska, LUBKER, ROBERT, 40, has a new mailing ad-

dress at P.O. Box 1640, Parkersburg, West DONOVAN, DANIEL K., 41, is now in the

graduate school of Colorado A. & M. at Ft. Collins, Colo. He has been a hydraulic engineer for the Bureau of Reclamation in Freson and is a Naval Reserve Officer McGARVIE, DONALD EARL, 41, is service enci-

neer for the W. H. & L. D. Bets Labs., 50 Church treet, New York City, and lives at 109 Fayette Ave., Mountain View, New Jersey, where mail should be addressed. NEEL, B. B., 42, moved this fall to 4545 W. 190th Street, Redondo Beach, California.

SCHIRMER, ROBERT, 42, (formerly Schmierer) reports the birth of a daughter, Barbara

Ann, on September 3, 1948. He is a chemi-

cal engineer for Phillips Petroleum Co. at Bartlesville, Okla., which place is running over with Theta Tau alumni. The family home is at 1436 Hickory Street, Bartlesville

BRADY, FRED DONALD, 43, is City Engineer and can be addressed at P.O. Box 322. Hot

Springs, South Dakota. HANNAN, WILLIAM SEATON, JR., 43, is metalurest for the Empire Zinc Co. and Mail

sent to Hanover, New Mexico, will reach him. SIMPSON, RAY, 43, and Miss Jean Gittings of Los Angeles were married on April 9, 1948.

WILCOX, ARNOLD LEROY, 43, is Junior Engineer with The Dorr Co., Westport, Conn., and mail will reach him at that address.

DICKEY, CLARENCE, 44, reports the birth of a daughter, Barbara Jean, on March 8, 1948. He has completed his work for his M. S. at Michigan and is now doing some work in the Business Administration Dept. The family home is at 932 Lynn Court, Willow Run, Mich.

INGWERSON, GORDON, 44, metallurgist for the Aluminum Co. of America, has been transferred to their new plant near Chicago. Home is at 4226 Harvey Ave. Western Springs, Illinois,

LAMMERS, GERARD, 44, received his Master's from M.I.T. and is now in the process design section of the Pittsburgh Cons. Coal Co. in Liberty, Pa.

MEYER, HARLAN WESLEY, '44, announced the birth of a daughter, Jean Marie, on January 1, 1948. He is assistant city engineer in Huron, S. D. and the family home is at 170 SW 9th Street, Huron,

RUDOLPH, BLAINE, ex '44, completed his work in EE in the summer at Mich., and was planning to enter the Michigan law school. He lives at 1001 Forest Street, Ann Arbor, Mich., but his home is at 304 N. Highland, Pierre, S. D.

BISCHEL, K. H., '47, is living at 2306 Windsor, Houston, Texas. MASYCZEK, EDWARD, '47, is now electric de-

sign engineer for C. F. Braun Co. in Alhambra, California. The family home is at 1300 Mission Drive, Rosemead, California. MORCOM, LEWIS, '47, and Miss Elaine High-

strom of Minneapolis were married in June. He is now in the engineering department of the Homestake Mining Co. in Lead, S. D. NELSON, JACK ELLIS, 47, is mill engineer for the Empire Zinc Div. of the New Jersey Zinc Co. and can be addressed at P. O. Box

184 Gilman, Colorado. Scown, WILLIAM FLOYD, 47, is Junior Chemist for the Minnesota Mining & Mfg. Co. in St. Paul, Minn. Home is at 4641 Dupont

Ave., South, Minneapolis 9, Minn. BANNICK, FRANCIS R., '48, whose home is at White Lake, S. D., is with Westinghouse Electric Corp., East Pittsburgh, Pa. ELLIOTT, WILLIAM L., '48, from Crawford,

Nebraska, is in the Blast Furnace Div. Carnegie III. Steel Co., Gary, Indiana. FLITTIE, CLIFFORD GILLILAND, 48, is assistant

geologist in the production department of the Arabian American Oil Co. 200 Bush Street, San Francisco, California, and can now be addressed care of that company at Dhahran, Saudi Arabia.

HECK, MARVIN R., '48, whose home is in Isabel, S. D., is with the Scott Engineering Co., 10 Second Street, SE, Watertown, S. D. HIGGINS, MICHAEL A., '48, is taking a train-

HIGGINS, MICHAEL A., '48, is taking a training course with the Trane Co. in La Crosse, Wisconsin. His home is at 941 Idaho Ave., Huron, S. D.

Lamont, Paul A., '48, is a junior engineer in the construction department Stanolind Oil & Gas Co., Tulsa, Oklahoma. Thomas U. McElmurry, Mu '48, is reported to be in same department. PETERSON, MARVIN E., '48, is a technician for Eastman Kodak Co., and home is at 144 Devon Road, Rochester 11, New York. SCHMID, GTORGE P., '48. and Miss Grace

SCHMID, GEORGE P., '48, and Miss Grace Pavilin, were married in Rapid City, S.D., last Easter Sunday. He is a metallurgist with A. C. M. Co. in Great Falls, Montana. SHAY, Owen L., '48, who calls Mobridge, S. D. his home town, is now a Junior Engi-

neer with the General Electric Co. in Schenectady, N. Y. STRANDELL, BYRON H., '48, is an electrical engineer for the Scott Engineering Co. Inc.,

engineer for the Scott Engineering Co. Inc., 10 Second Street, Watertown, S. D. UDAGER, HELMAR W., '48, whose home is at

817 11th Street, Rapid City, is with Scott Engineering Co., Sioux Falls, S. D. WILMARTH, VERLE R., '48, is with the U. S.

Geological Survey at Custer, S. D.
WITHEE, WARREN D., '48, is a laboratory
side, Corps of Engineers, at the Rapid
City Army Base, and lives at 714 4th Street,
Rapid City, S. D.

GAMMA BETA

BAKER, EDWARD A., '35, is living at 10611 Lorain Avenue, Silver Springs, Maryland. PENN, WILLIAM HILL, '41, is engineer for the Penn Machinery Co., Deposit Guarantee

Penn Machinery Co., Deposit Guarantee Bank Bldg., Jackson, Miss., and wants mail sent to 400 N. State Street, Jackson. Weston, Robert G., '43, now lives at 1818 N. Patrick Henry Drive, Arlington, Virginia. Brother Weston is secretary of the National Capitol Alumni Association. KILPATRICK, GEORGE A., '45, can now be

reached at 1109 N. Tuckahoe Street, Falls Church, Virginia.

DELTA BETA

DITTO, ROBERT, '48, who graduated at Purdue this spring, can be addressed at 346 N. High Street, Mt. Vernon, New York.

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