THE GEAR

OF THETA TAU



IOWA MEMORIAL UNION SCENE OF REGIONAL CONFERENCE BANQUET

Dolume XXVI

Number 2

SPRING, 1957



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SPRING, 1957

Theta Tau Fraternity

Founded at the University of Minnesota October 15, 1904

FOUNDERS

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RUSSELL G. GLASS, Sigma '24 Grand Inner Guard

23401 Chardon Road, Euclid, Ohio

DELEGATE AT LARGE

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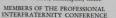
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Chapters

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) 233 College Ave., Houghton, Mich.

GAMMA, Established November 8, 1907 - - Colorado School of Mines

c/o Prof. M. I. Signer, Colo. School of Mines, Golden, Colo. DELTA, Established May 23, 1911 - - Case School of Applied Science Theta Tau Box, Case School of Applied Science, Cleveland, Ohio

Epsilon, Established May 4, 1911 - - - - University of California Box, Hearst Mining Bldg., University of California, Berkeley, Calif.

ZETA, Establisbed April 17, 1912 - - - - - University of Kansas (Chapter house) 1245 Louisiana St., Lawrence, Kansas

THETA, Extablist of May 26, 1914 - - - - Columbia University c/o Prof. A. D. Hinckley, Eng. Bldg., Columbia University, New York City Iora, Extablished February 5, 1916 - - - Missouri School of Mines Theta Tau Box, Missouri School of Mines & Metallurer, Rolla, Mo.

KAPPA, Established March 25, 1916 - - - University of Illinois c/o Prof. Jamison Vawter, 307 Eng. Hall, Urbana, Ill.

LAMBDA, Established April 29, 1920 - - - University of Utah
Theta Tau Fraternity, Union Building, Salt Lake City, Utah
MU, Established January 3, 1922 - - - University of Alabama

MU, Established January 3, 1922 - - - - University of Alabama c/o Prof. Fred R. Maxwell, College of Eng., University, Alabama NU, Established January 1, 1922 - - Carnegie Institute of Technology P. O. Box 114, Carnegie Institute of Technology, Pittsburgh, Pa.

OMICRON, Established February 3, 1923 - - - University of Iowa (Chapter house) 804 North Dubuque Street, Iowa City, Iowa Pt, Established May 26, 1923 - - - University of Virginia

(Chapter house) R. F. D. No. 3, Charlottesville, Virginia

RHO. Established February 16, 1924 - N. C. State College of Ag. and Eng.

P. O. Box 5325, State College Station, Raleigh, N. C.
Sigma, Established November 29, 1924 - - - Ohio State University

(Chapter house) 1965 Indianola Ave., Columbus, Ohio TAU, Established December 12, 1925 - Syracuse University c/o Prof. E. F. Berry, College of Applied Science, Syracuse, New York UPSILON, Established April 7, 1928 - University of Arkansas 216 Eng. Bldg., U. of Ark, Fayetteville, Arkansas

Phi, Established April 21, 1928 - - - - - - Purdue University (Chapter house) 416 N. Main St., West Lafayette, Ind.

CHI, Established April 23, 1930 - University of Arizona 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) 130 Kansas City St., Rapid City, South Dakota GAMMA BETA, Established March 16, 1935 - George Washington University

c/o Dean of School of Engineering, George Washington University,

Washington, D. C.



Omicron Regional Conference Delegation

Second Regional Meeting Held at Omicron

Taking advantage of the Easter recesses, delegates from Alpha, Beta, Zeta, and Omicron met at Iowa City on March 27 in the second regional meeting called by the Executive Council. Undaunted by long drives, large representations arrived from each of the chapters, Zeta taking honors with ten men. Grand Regent Hopkins, Grand Treasurer Vawter, and Grand Outer Guard Nusser were on hand to conduct the meeting. The attendance totaled 45 and in-

cluded the following visiting men in addition to the national officers:

Alpha: Robert Aslesen, Regent Harry A. Larson

Gordon Nygren John Stegmeir Beta: H. L. Ringle, Regent Paul Harrington Lester Cummings

Edmund Korybalski Zeta: Howard Moreland, Regent Fleming Scofield Victor Koelzer Stanley Bloom

Lewis Benz Clifford Willis Hugh Magruder John Grist George Russell Ray Rogers

Twin City A.A. Joe Skovholt, Alpha

Chicago A. A.: George Jackson, Phi '26. President

Paul Marner, Omicron '24, Director Dick Van Gorp, Omicron '26, Vice-President

Also in evidence were Ted Nylund, Alpha ex '33: Keith Willey, Zeta, '36: Prof. R. B. Kittredge, Omicron Honorary; Paul Mercer, Omicron '21; I. W. Howe, Omicron '24, as well as 17 Omicron actives headed by Regent Louis Butterworth.

Many of the delegates arrived Friday evening and did a little exploring under the expert guidance of local brothers. Next morning all early arrivals had recovered, all others had arrived, and name tags were brought forth to aid in the rapid process of becoming acquainted.

A noon luncheon in the dining room brought everyone together and started the meeting off in high spirits. Fol-



lowing the meal Grand Regent Hopkins divided the delegates into two informal groups, one of Regents and Scribes directed by Brother Nusser and another of Treasurers directed by Brother Vawter. The first group compared notes on such interesting subjets as chapter conduct, pledging policies, education of initiates, planned programs, professional meetings, and desirable size of chapter. The Teau urers considered such vital things are house bills, initiation fees, delinging and house bills, initiation fees, delinging the professional language and accountring systems. Zet reported favorably upon the recent bulletin issued by the Professional Interfertuentity Conference, saying that rushees were given these bushlets to show their parents

fashion. Between courses each Regent had his men stand and take a bow and each group came through with a chapter or campus song. Short talks by Grand Regent Hopkins, Grand Regent Hopkins, Grand Augent Hopkins, Grand Hower followed. Brother Nusser and Hower followed. Brother Nusser and How followed. Brother Norsome movies of the K. U. campus of the K. U. campus that arranged with the Zeta men for the case of the contract of the



Grand Regent Hopkins

in order to give them an idea of the objects of the fraternity.

Following the conferences a general meeting convened at 3:30 and each of the national officers took the floor for discussion of fraternity problems. All emphasized their willingness to aid the chapters in any way possible and stressed the desirability of strengthening alumni relations.

At 6:30 the conference met at the Iowa Union for the banquet where Regent Butterworth presided in able



Grand Treasurer Vawter

since so many of the Zeta men shown were present.

The banquet was concluded about no 'clock and all adjourned to the chapter house where an initiation ritual was put on by the Omicron officers. Pledge James Bowman became a member at this ceremony and had the pleasure of being congrarulated by the large group of Theta Tau's present. This concluded the official meetings and the delegates began preparations for the homeward trek, some starting for the homeward trek, some starting

that night and some early (?) the next morning.

Everyone was enthusiastic about the

meeting. Typical impressions were given by the four Regents and are reproduced below.

Bob Aslesen-Alpha

The midwestern regional conference, to me, was one of the most impressive and inspiring gatherings of brothers of Theta Tau that I ever had the opportunity of attending. The simplicity and informality that went to make up a day of discussion of problems, each one pertinent to every chapter, will long remain as a memory of the spirit, co-operation and diligent efforts of all present, working for one goal, a truer bond of friendship in our fraternity of Theta Tau.

However it wasn't all work. The various little trips on Friday night into the "unknown" and the grand banquet on Saturday night at the Iowa Union all helped to finish off a hard day's work.

Beta came four strong and we were certainly glad to see that the boys from Houghton came out of their winter's hibernation at last, in time for the meeting at Iowa City.

The boys from Zeta at Lawrence. Kansas, certainly didn't leave any of their spirit at home either. Ten strong they came and I have never seen a better bunch of real fellows. (Hello! New Jersey).

Our very best wishes go to the Omicron boys because they certainly didn't leave their welcome mat un-

turned for us, and believe me they certainly know how to put over a real initiation.

In closing, my heart goes out to Brothers Hopkins, Vawter, and Nusser, and I'm sure that the entire Alpha delegation is with me in thanking them for their diligent efforts to bring all brothers of Theta Tau into a closer, more unified bond of friendship. Many friendships, I am sure, have started at this regional meeting at Omicron.



Grand Outer Guard Nusser

H. L. Ringle,-Beta

Although the recent regional Theta Tau conference, attended by delegates from Alpha, Beta, Zeta chapters, and held at the chapter house of Omicron, was short in length, topics of general interest to all of us discussed there were long in pertinence and filled with a great many helpful suggestions.

I was very much surprised at the

large turn-out for the meeting, thinking that only a small round-rable discussion of two or three members from each chapter would be present. However, even with the large number present the conference was not unwieldy, nor bulky enough to hinder progress in solving, or rather helping solve some of the individual problems of the chapters represented.

The attention of the delegates was not entirely on fraternity business, due to the excellent manner and finesse with which Omicron treated its guests. The banquet held at the Iowa Union was a decided success and for our part was thoroughly enjoyed, along with the bull session held before and after fraternity business was attended to.

It was especially pleasure to be able to meet many of the representatives and I believe that along with myself they received a great deal of benefit from the conference. And I also believe that more of them held each to the properties of the prop



Beta Omicron

Howard Moreland-Zeta

The convention was, in my opinion, a great success. The suggestions and ideas of the various men should be very helpful to all chapters present and should also tend to strengthen the union between chapters. A ment-

eland A

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ing of this sort makes one more nearly realize the advantages of an organization of this kind and gives us all semething to work for.

We were also pleased with the way the convention was conducted and the splendid way in which the Omicron lovs made us feel at home.

Louis Butterworth-Omicron

To Omicron fell the privilege of being host to representatives of Alpha, Beta, and Zeta chapters, Grand Regent Hopkins, Grand Treasurer Vawter, and Grand Outer Guard Nusser for the first midwestern regional conference held on March 27, 1937. We of Omicron were very happy to have this opportunity and feel honored that we were asked to arrange for the convention here at Iowa City.

This convention has given me a new conception of Theta Tau. Never before had I realized the full significance of the strong fraternal bond which exists between the members of different chapters of Theta Tau. The spirit of good fellowship reigned supreme not only in the more weighty but also in the less serious activities of the convention.

It was extremely beneficial, I thought, to meet the officers of the tother chapters for the discussion of outural problems. Each of the chapters generally had its own distinct way of coping with its situations, and by pooling the methods of attack I abelieve each one present received new slants and ideas on ways of solution for his chapter.

It was an inspiration to see the national officers and our alumni tational officers and our alumni tational officers and our alumni tation as to put themselves to consider tion as to put themselves to consider able trouble and inconvenience to meter with us. Even had I not been entirely able to sold on the idea of Theta Tau before this convention, seeing the regard to this convention, seeing the regard to the fraternity which these, who have been out of school all the way food all the tainly prove to me that this frater tainly prove to me that this frater of ours is worth all the effort, and ance, which one puts into it.

I sincerely believe that such meetings as the one just held are well worth all of the money and energy expended on them. Through them not only the local chapters but also the national organization will develop and grow along every line.

Paul Fox Makes Life Miserable for New Mexico Mosquitos



Paul S. Fox

Paul S. Fox, Zeta '21, after attending the University of Kansas and Harvard University, became, in 1920, Assistant Engineer for the Kansas State Board of Health. In 1923 he transferred to the New Mexico Bureau of Public Health and is now holding the positions of Chief Engineer and Acting Director. For the past year Brother Fox has been doing considerable work in the abatement of mosquito breeding areas with the aid of a WPA project. This war against the mosquito is carried out due to the prevalence of malaria in certain irrigated valleys of New Mexico.

The borrow pits which had been excavated to a depth below the ground water level in the construction of highways and irrigation canals were



Fig. 1. Typical borrow pit Fig. 2. After filling



Fig. 3. Borrow pit drainage Fig. 4. A good mosquito habitat

excellent places for the mosquito to breed. The project includes the filling of these borrow pits and the construction of drainage ditches for removing excess water from other areas. Figure 1 shows a typical borrow pit excavated below ground water level in constructing a large irrigation canal, offering an excellent mosquito breeding ground. In figure 2 the same pit is shown after filling operations were completed. The area in Figure 1 is drained by drainage ditches similar to the one pictured in Figure 3. Use of water for irrigation of farm lands frequently results in the formation of seeps and springs on land located at lower elevations. The seeps and springs often form ideal breeding areas for Anopheles Maculipennis, which is the principal vendor of malaria in this state. A cool shady sport, such as the one shown in Figure 4 is a favorite of the Anopheles Maculipennis.

From 400 to 1000 men have been

From 400 to 1000 men have been employed on this unusual project in eleven counties during the last two years. All supervision has been under the engineering division of the New Mexico Bureau of Public Health.

Prof: "Is that your cigarette stub?" Stude: "Go ahead, you saw it first."

Purdue Engineer

"Are they very strict at your college?"

"Are they? Why, when a man dies in a lecture there they prop him up until the end of the hour!"

Texas Ranger

Technical Publishing as a Field for Engineers

By Vincent B. Smith, Associate Editor CONSTRUCTION Methods and Equipment

have worked on their

college magazines and

have wondered about the possibilities of en-

gineering journalism as

a profession. In the

accompanying article

Brother Vincent B. Smith, Nu '26, gives some interesting facts

pertaining to this profession. Furthermore,

he writes with author-

ity as he is Associate Editor of CONSTRUC-

Equipment, a McGraw-

TION Methods

Hill publication.

DUSINESS paper publishing in its three departments of editing, advertising and circulation employs

about one half of one per cent of all graduate engineers in the United States. By far the largest proportion of engineers thus employed are editors, although a good number are concerned with promoting and selling advertising space in publications. If one were to include the number of engineers outside the publishing houses engaged almost solely in planning and preparation of adver-

tising matter for the business press, the proportion in the second category would be greatly increased. Circulation selling uses the smallest number of engineers.

Business, trade and technical publications in the United States reach the astonishing number of 1,700. Of this total, about 500 are medical journals of one kind or another and can be eliminated as likely prospects for engineers. Of the remaining 1,200, not more than 50 per cent are legiti-

ing in its mate business papers edited with the diting, ad- purpose of giving honest, useful ser- n employs vice to their respective fields. The elite of this group,

leagued in an organization called Associated Business Papers, Inc., which requires its members to sell subscriptions on a cash basis. In other words, free circulation is prohibited. A second smaller association of 80 papers permits members to combine paid and free circulation but requires the circulation lists to be

open to outside audit.

Beyond these two groups business papers submit to no type of circulation control, and the buyer of advertising space in them acts solely on his confidence in the honesty of the publisher. They include a number of ably edited publications which well deserve the respect and confidence of their readers and advertises.

Among the 153 papers in the first group are publications serving the fields of advertising, insurance, department stores, hotels and schools (to meation only a few) as well as a wide range of engineering branches — civil, construction, electrical, chemical, metallurgical, mining mechanical, power and railway. Half of the papers in the group employ engineers in editorial capacities. The number of engineers so employed ranges from one to nine per publication, and the average is two. More than half of the papers employing engineers have only one on the editorial staff. Including engineers engaged in advertising



Vincent B. Smith

ing and circulation sales, it would be safe to estimate the number employed by this group of papers as 225.

As papers drop lower in the scale of business publishing, the ratio of engineers on editorial and business staffs undoubtedly decreases. Even on less carefully edited papers, the training and mental habits of the engineer are almost indispensible if the publication wants to gain acceptance with technical readers. On publication with the publication was deducately consistency of the publication was designed to t

staffed with engineers and other workers of proved ability, it may be said that a larger proportion of men with engineering training would improve the quality of the publications. provided the engineers had the other qualifications necessary to succeed in the publishing business. Unquestionably the number of engineers engaged in the publishing of technical and business papers could be doubled with great advantage to the periodicals and decided benefit to the readers. This doubling does not mean an increase in the size of the staffs: it calls only for replacing non-technical writers and salesmen with engineers when replacements have to be made in the ordinary course of business.

What are the qualifications that an engineer needs to succeed in technical publishing? Apart from the ordinary requisites of honesty, courage and good sense essential to success in any business, the only important additional qualification is love of expression Does he take pleasure in putting technical thought into a form that is clear, informative and interesting to his professional brethren? ability presupposes a sincere concern with the problems of his field and a genuine interest in its accomplishments. It does not necessarily mean that he likes to write reports. Even men with a real love of expression sometimes undertake reports reluctantly.

As for the selling of advertising space in technical publications, any man with the qualities for success in engineering sales ought to be equally proficient in this field, once he has understood the solid value upon which technical paper advertising is built. The editorial policy defines the field and consequently the audience of a

business paper, but the message contained in the advertising pages is no less valuable to that field than the matter in the clidroial pages. Under the publishing system at pressnt almost universally in effect, the advertiser really pays the major cost of publication. The small charge to the subscriber in many cases hardly pays for the paper and mailing. Actually the business press would be of decided value to its readers even if all editorial articles and news were omitted. As an editor I am convinced that the editorial pages more than double this value.

Business publications are practical tools of the arts or industries which they serve. In this capacity they attempt to present information of practical value in meeting current problems of their readers, who are the buyers and sellers, producers and fabricators, of the industrial organism, Scientific articles are of slight direct value to such men, and even those publications most intimately concerned with technical problems of design and production must exclude matter of purely scientific or research interest. The research scientist is one man who would not be happy on the staff of a husiness naner

Editorial staffs vary in size with frequency of publication and completeness of coverage. In general they range from two to a dozen men. A large technical publication has need of a chief editor, a managing editor, a technical editor or editors, a merchandising editor or editors, a news coltor, and an assistant editor or editers. The chief editor, managing editor, technical editor, news editor and assistant editors ought to be technically trained men. Assistant editors frequently are cubis learning the business. Previous professional experience is not necessarily required of an assistant editor; training in a technical school ordinarily supplies sufficient backgound.

As a generality it may be said that remuneration in the advertising department can reach a higher level than in the editorial. In neither department is it likely to be excessive. A business paper editor can make enough at his job to support his family in the concept and confort, but he is unlikely to receive a salary which makes possible the buldling of a small fortune out of savings. In advertising sales, a man has a better opportunity to earn a large income, especially in good business years.

Business paper editing is a full-time job. It requires wide contact with the field, necessitating a great amount of travel and attendance at meetings and conventions. No man can be happy at the work unless he has a genuine interest in the industry and a sincere affection for his professional associates. With these qualities as a foundation, the work brings its own rewards.

Lest Hollywood's Simone Simone be thought to have a claim on the original use of a double name, may we hasten to mention Theta Tau's Fadel Fadel (Delta '37), Lambrou Lambrou (Sigma '36), and Robert Roberts (Nu '35). Freshman: "I don't know."

Sophomore: "I don't remember."

Junior: "I am not prepared."

Senior: "I don't believe I can add anything to what has been said."

Edward F. Berry, Tau '13, Has Full Experience

Instrument-man, draftsman, railway engineer, technical magazine editor, structural designer, engineering educator! Despite a career filled with sparkling professional achievements, Brother E. F. Berry has found time to devote much attention to his fraternity in the role of an active faculty adviser to his own chapter. Tau, at Syracuse University. His innate enerey enthusiasm and ability may be read in his already long record of accomplishments but to reveal his keen sense of humor which endears him to all his friends and brothers perhaps we may best quote his own words from a letter supplying notes on his early life:

"I first saw the light of day, or perhaps that of a lamp, I really cannot remember, one rainy October first about five o'clock in the morning. The year? Well! It was well on toward the end of the last century.

My boyhood was much like that of



Edward F. Berry

all kids mumps measles, school, etc. I can remember well how seriously I resolved to be first a white wings, then a carpenter and finally, at about ten. all my hopes were centered on some day driving a locomotive. During my high school days I developed an interest in medicine. This was manifest in various ways such as an attempt made by another youth and myself to castrate an old tom cat. I shall never forget my father's reaction to that operation. He did, however, approve of the idea in general. All this had to be given up though, as about this time my father developed an illness which soon caused him to give up work, and which led to his death a year or two later while I was still in high school."

Born in Fredericton, New Brunswick, Canada, of a Canadian mother and an American father who was a lumber buyer for the American market. Brother Berry was educated as a civil engineer in the University of New Brunswick, graduating in 1913 with the degree of B. Sc. C. E. It is significant that while he was building up a valuable background of experience in surveying jobs during vacation periods, he was also making a splendid scholastic record at college and missed leading his class at graduation by only three-tenths of a percentage point.

Upon graduation he went immediately into the railroad field and after several different connections, presently found himself in 1914 in the United States serving as Chief Draftsman on the federal valuation of the Main Central Railroad. While in this position he personally drew the plans for the Portland terminal which were

pronounced the finest submitted by any railroad. Having once located in the United States he soon became a naturalized citizen of this country and to seal the contract married an American girl.

Perhaps the greatest break in his career came in 1916 when he was invited to join the faculty of Lehigh University. Here he had an opportunity to further his studies in structural engineering under the direction of Prof. F. P. McKibben. After three years at Lehigh he resigned to accept an offer to go to New York to edit a technical magazine on lubrication. While in this position he found time also to write two text books dealing with this subject. Within a year, however, the lure of the classroom became so strong that in the fall of 1920 he became an Assistant Professor of Civil Engineering at Syracuse. Subsequently he was promoted to the rank of Associate Professor and made Director of the Syracuse University Materials Testing Laboratory. For a period of a year, while the occupant of the position was seriously ill, he acted as head of the Civil Engineering Department.

In addition to his duties on the faculty Brother Berry has found time to carry on an extensive private practice as a consulting engineer in structural fields. In this capacity he has handled much unusual work during recent years in concrete and steel design and erection, difficult foundation problems, special surveys, examinations, appraisals, etc., for engineers, architects, contractors and industrial firms. Worthy of special mention perhaps is his work as designer of the foundations of the Federal Reserve Bank in New York City. While on this job he designed a device for de-

tecting the movement of buildings. Another exceptional job which he handled was that of designing the underpinning, catssons, anchorages, piers, etc. of the Delaware River bridge in Philadelphia. He is frequently called in as a third party in engineering matters of a controversial nature and of late has been appearing quite frequently as an expert in accident trials.

It was a short time after joining the faculty at Syracuse that he affiliated with Tau Delta Sigma, the organization which in 1925 became Tau chapter of Theta Tau. As a charter member of Tau his name appears as No. 3 on the roll. Like all true Theta Taus his interest in the fraternity has not award with the years, but rather it has grown, as is made manifest it has grown, as is made manifest that property of the property of the

Brother Berry is a member of the A. S. T. M., A. S. C. E., S. P. E. E., A. C. I., the Syracuse Technology Club. Tau Beta Pi and the National Geographical Society. He has been head of the Syracuse Section of the A. S. C. E. for two terms and a member of the Board of Governors of the Syracuse Technology Club for the same length of time. He is head usher and a member of the official board of the University Avenue Methodist Episcopal Church and reports that he is one of the few republicans left in the country. For outside interests Brother Berry enjoys motoring and ice skating, but his real hobby is collecting information about bridges. To quote again, he says:

"I modestly believe that I have one of the finest collections of unusual information about bridges that exists anywhere. A sort of non-technical 'Believe it or Not' dealing with bridges. I go about giving illustrated lectures to all kinds of groups. The collection includes hundreds of lantern slides."

As you will guess, he always enjoys hearing from people who are interested in this hobby or who know anything out of the ordinary about bridges, particularly oddities about them which he may add to his collection.

Charles H. Topping Gets Around

Charles H. Topping, Eta '28, is again with Pan American Petroleum in Texas City, Texas, where his company is building a \$9,00,000 addition to its three year old refinery. Before going to Texas he was in charge of the construction of a storage terminal in Albamy, N. Y., for the same company. He returned from Persia about a year ago, where he was first on a railroad construction job and then with the University of Pennsylvania Archeological Expediction.

After surveying for the expedition for eight months, he went on a short mule trek through the Elburz on an unsuccessful attempt at the first ascent of the Throne of Solomon, Persia's second highest peak. The moly result of that was a good red of movies and the discovery of the first three glaciers known to exist in Persia.

Then he went east over the Pilgrim road through Khurasan to the holy city of Meshed and south past the great salt desert to near the Makran Coats, where he tried to climb the only active volcano in Western Asia but was prevented by the government.

The Baluchistan Railroad took him east again to Quetta and from there he went north to the picturesque city of Kandahar in Afghanistan on up to Ghazni, historic capital of the early Mohammedan invaders of Ghazni, who founded the Mogul dynasty, and on up to Kabul. While there, the United States came through with their tardy recognition of the country, and he was the only American in the land. From Kabul he went down through the Khyber Pass, which was an interesting defile, bristling with forst and full of troops. Peshawar was next, and he stopped there a while to look at the ruins of the Grecco-Buddist monasteries at Taxila, where the influence of the Greek governors left in Balkh by Alexander the Great made itself evident in the fusion of their sculpture with that of the Hindus, From there he went to Kashmir and spent some time in a houseboat on the Ihelam River and the Dal Lakes. Then he started down through India as far as Benares, across to Bombay, and home via the Suez Canal.

James A. Barr Sketches Interesting Career

Asked by the editors for biographical material, Brother Barr sent the following letter which we reprint verbatim. "As is often the case with mining engineers, I only find time—or inclination—to jot down these few words in the club car of a transcontinental train, mildly distracted by a radio, cooling beverage, and a purple sagebrush vista.

"While the present worry is the sinking of a 1000 foot shaft to open a potash mine in New Mexico, the problem does not entirely overshadow the interesting experience of thirty years of general engineering practice, which profession I would not change if it were to be done over again.

"There is little time or inclination in this hurry-up age for reminiscing, so the reader will pardon any seeming slight to 'the good old days' when I was a member of the Rhombohedrons and a charter member of Beta.

"Following a brief year as instructor of Metallurg under Professor L. S. (Duke) Austin at M. C. M., and some hard labor, hard rock experience in the San Jual, came my most important event of marriage to Miss Ellen Obenhoff of Houghton. Strange to say, none of our four children have fallen for the lure of mining, though our daughter may be excused for this lapse.

"We moved to Mt. Pleasant, Tennessee, in 1910, and while this has been our nominal home, we have lived at various times in Michigan, Florida and Asherville. Quite a stable existence for mining.

"Most of my work has been in the Southeast, where contrary to the popular conception, there is much for the mining engineer to do aside from sitting in the shade and listening to darkies sing in the cotton fields.

"In our phosphate mining operations in Florida and Tennessee we handle tonnages that compare favorably with the so-called large volume mines of the country. Also to vary the monotony of current production, we are opening up a kyanite mine in Virginia where we have some virgin territory in metallurgy to cover.

"Perhaps my most interesting experience has been an intimate connection with the development of nonmetallic flotation, which was more actively started in 1927, from the leads furnished by the Broadbridge



James A. Barr

and Edser patent. There followed extensive researches and well development work, but the results made the effort worth while, and not only profoundly affected the phosphate mining industry but branched out into other non-metallies.

"My present connections as Chief Engineer of one company, consulting engineer of another and a technical director of a third, fill each day with interest and new problems."

Dr. James Fisher Made Dean of Faculty in Recognition of Eminent Service

Among outstanding Michigan Tech alumni is Dr. James Fisher, head of the department of mathematics and

physics, and dean of the faculty at his alma

mater. He was born in Hancock. Michigan, in 1873, and received his primary education in the village schools there.

In 1893 he was granted the degree of Engineer of Mines from the Michigan Mining School, which has since become the Michigan College of

Mining and Technology. Except for a year spent at Cornell in 1899, Dr. Fisher has been on the faculty of his alma mater since 1895.

He became head of the department of mathematics and physics in 1901. At the same time his title was changed from that of instructor to assistant professor, and in 1903 to professor. Granted the honorary degree of Doctor of Engineering in 1934 by the college, he last fall was given the additional title of dean of the faculty, in recognition of his service to the college and alumni.

In the two years immediately following his graduation, Professor Fisher had a position as practicing engineer with the Hodge Iron Works and the Ouincy Mining Company,

X-rays became one of his many in-



James Fisher

gether with Professor F. B. Mc-Nair of the staff he was one of the first in this country to take X-ray pictures. He was helpful to Copper Country physicians in this respect and received some painful burns in the course of his experiments.

Other studies include work with the late Professor Mc-Nair with po-

larized light. These took place about 1908. Shortly after Dr. Fisher helped with the U. S. Coast Survey, in 1910, which entailed studying the effect of surface layers on the force of gravity. Much of the experimental work was carried on at the old Tamarack mine, north of Houghton.

Since 1926 the Michigan College of Mining and Technology has done extensive research work in geophysical prospecting, comparing and developing methods of electrical, seismic. magnetic, gravitational, and thermic surveys. This work has been under the direction of Professor Fisher since its inception. A considerable portion of it is done with the co-operation of

such organizations as the Carnegie Institution of Washington, the U. S. Geological Survey, and the U. S. Coast and Geodetic Survey.

Dr. Fisher has become more and more interested in the history of the copper country of Michigan, and has a noteworthy collection of photographs and documents concerning it. He also has become one of the college's strongest ties between faculty, student body, and alumni.

In this connection "Jim" Fisher is known by everyone as a keen humorist and a fine raconteur. He always has a good story to tell, and he tells it well. Coupled with his sense of

humor is a complete knowledge of his

Publications by Dean Fisher are: Laboratory Physics, Spherical Astronomy for Engineers, Principles and Methods of Geophysics, Polarized Light, and A History of the Lake Superior Copper District. His clubs and honors include mem-

bership in: Theta Tau, Tau Beta Pi, A. I. M. E., Lake Superior Mining Institute, the American Academy for the Advancement of Science, S. P. E. E., Michigan Engineering Society, Michigan Authors Association, Michigan Historical Society, and Blue Key society.

Glenn L. Alt, Zeta '16, One of Theta Tau's Prominent Engineers

In 1195 Brother Glenn Alt selected for his father a German born in Australia and for his mother a lady of Irish and Pennsylvania Durch extraction who was a telegraph operator and station agent for the Rock Island Lines. Perhaps his mother's occupation influenced his desire to become an engineer, for he graduated with a degree of Bachelor of Science in Civil Engineering, after obtaining his pre-liminary education at Doniphan County Public School at Denton, Kanssa, and Troy, Kanssa, High School.

After graduating from the University of Kansas, Brother Alt became a draftsman for the American Bridge Company at Toledo, Ohio. Later he was offered the position of instructor in Civil Engineering at the University of Michigan, which he accepted in February, 1918, and later became an assistant professor at the same university.

While teaching at the University of

Michigan Brother Alt had a great deal of engineering experience. Among his many jobs he served as Draftsman and Designer for the American Bridge Company and for many other companies and individuals.



Glenn L. Alt

From July, 1922, to February, 1923, Brother Alt took a leave of absence from the university and became Resident Engineer for the Ann Arbor Railroad at Toledo, Ohio. He was in charge of the one-half million dollar aralload relocation and reconstruction plan, which included grading, balasting, track Jayout, and general ring, track Jayout, and general rarek construction through Toledo yards with interlocking at four rail-road crossins:

In collaboration with Prof. A. A. Jakkula, Brother Alt prepared a report on the comparative estimates of costs and the feasibility of bridging the

Straits of Mackinac, including three possible routes.

Brother Alt is a member of many important organizations, including Signa Phi Signa, Theta Tau, Tau Beta Pi, A. S. C. E., and the Arabic Engineers and Architects Club. Among the non-engineering organizations, he is a member of the Order of Eastern Star, the Masonic Order, Masonic Order, Masonic Toder, Arbor. His interest in civic affects in shown by his election to the city council of An Arbor.

Brother Alt married Viola Feas of Toledo in February, 1919, and they now have two children, Barbara and Glenn, Ir.

Richard Joel Russell, Epsilon '19, Wins Award to Travel in Russia

Richard Joel Russell, Past Grand Regent of Theta Tau, was awarded the first Wallace W. Atwood prize "for meritorious and original investigations in physical geography." This "award is to be

đ,

vals of about once in five years and is described in Science, Vol. 85, pp. 221-222, for February 26, 1937. With the award Professor Russell proposes to make a study of the Delta of

made at inter-

Richard J. Russell on the Nolga River, on the northern shore of the Caspian Sea, during the summer of 1938. This will continue a study of deltas initiated in the publication of "Lower Mississippi River Delta," Bulletin 8 of the Louisiana Geological Survey, which is just off the press and may be obtained from the State Geologist, Department of Conservation, New Court House Building, New Orleans, La.

Professor Russell spent the years from 1915 to 1926 at the University of California, where he was a member of Epsilon Chapter of Theta Tau. After two years of residence in Texas he became associated with the School of Geology of Louisiana State University, in 1928. He has about fifty publications covering parts of the fields of structural geology, geomorphology, and climatology. His studies within recent years have been concerned chiefly with the coast of southern Louisiana, particularly with reference to the effect of a load estimated at about two million tons per day. on the average, deposited by the Mississippi River in the vicinity of its

Daring the summer of 1937, in company with Brother Henry V. Howe, Director of the School of Geology, Professor Russell will find himself in Russia, attending the XVII International Geological Congress. His paper on the Mississippi River Delta will be followed by one on the Stratigraphy of the Gulf Coast Geocyncline by Brother Howe. An excursion of

about three weeks duration will take Brothers Russell and Howe down the Volga Kiver into the deserts of south-western Asia prior to the meetings of the Congress in Moscow. After the meetings they will spend about seven weeks in Sheria, going to points of geological interest along and off of well-bestern tracks. Several points will be reached on horseback and at least one journey will be made on foot.

D. D. Ewing Attains National Recognition in Electrical Field

Some one has said that empty stomachs have served as inspirations for more ideas than all other motivating and inspiring devices put together. Be that as it may, the point will not be argued here. However, it may well be that D. D. Ewing, Professor of Electrical Engineering at Purdue University had his interest in railroads and engineering first stimulated by the noon train that meandered along the old railroad that skirted the Ewing farm in northwestern Ohio. When this train came along, drawn by an old locomotive whose wood burner stack-reminiscent of pre coal-burning days-was belching black smoke, cinders and steam, neither farm boy nor horses could be headed in any direction other than toward the food supply.

Äfter graduating from high school Prof. Ewing taught country school for a couple of years in order to obtain a little financial back log for college. In college he found all kinds of engineering work interesting and ended up with degrees in electrical and in mechanical engineering from Ohioi Northern University in 1906. In the autumn of 1907 he was offered a teaching post in electrical and mechanical engineering at his alma mater. Most of the time since graduation had been spent in railway service but despite his great interest in railway work his teacher instinct predominated and the offer was accepted.

And teaching has been his life work since that time; although if asked by a stranger as to what his business was,



D. D. Ewing

Professor Ewing would quite likely say that he was an engineer.

The school year of 1912-13 found Professor Ewing at Purdue University as a part time assistant in electrical engineering and as a graduate student in railway engineering. At about this period of his life he spent several summers with the railway project department of the Westinghouse Electric & Manufacturing Co., working on the electrification plans of several well known steam railways.

Since 1913 Professor Ewing has been in charge of electric railway courses at Purdue and for many years has also had charge of courses in electric power transmission and alternating current machinery.

Professor Ewing's outside activities have been many and diverse. For seven years he was a contributing editor on the staff of the Electric Railway Journal and has written many staff articles and editorials as well as many signed articles in the fields of electric railways and power transmis-

He has served on many technical committees and has directed extensive investigations and researches mostly in the field of electric railways. At present he is a director of the Duncan Electric Manufacturing Company, well known manufacturers of watthour meters.

In addition to being a member of Theta Tau, Professor Ewing is a member of Tau Beta Pi, Eta Kappa Nu, Sigma Xi, S. P. E. E., American Transit Association, Indiana Engineering Society and a Fellow of the A. I. E. E. In the latter society he is a member of the national committees on Electric Welding, Transportation and Electric Power Transmission.

Despite his teaching and professional activities Professor Ewing finds time for several hobbies which are as diverse as his other activities. He likes golf, and spends some time occasionally on other interests such as watches, guns, hunting and farming.

Otto Herres Fulfills Farly Promises of Success

The vice president and general manager of the United States Fuel company is a man well qualified by education and experience to direct the activities of this organization.

Otto Herres was born in Denver, Colorado, on January 29, 1890. After graduating from the East Denver High School in 1907, he decided to become a mining engineer. At Golden. just a few miles from Denver, is situated the well known Colorado School of Mines, and it was here that Herres spent four arduous years mastering the mysteries of chemistry, physics, geology, calculus, assaying, mine surveying, ore dressing, metallurgy, and the many other scientific subjects which are the prerequisites for the degree of Engineer of Mines, which was his coveted goal. At Golden, "Ott," as he was then known, evidenced, by his scholastic standing, his ability to solve the problems involved in mine operation and management, which he has further demonstrated in later

Armed with a sheepskin bearing the blue and silver seal of the Colorado School of Mines, Brother Herres in 1911 started his advance upon the then unsuspecting coal mining industry of Utah.

During his summer vacations, while

a student at Golden, he had worked as a miner and millman at Cripple Creek and Colorado City in Colorado; at Garfield, Utah: Goldfield, Nevada: and Isewhere. So it was with hands not entirely free from callauses that he accepted a position as engineer with the Utah Fuel Company at Castle Gate, Utah. Here he assisted in opening the Castle Gate Mine No. 2, a property notable for the thickness of its coal seam, which measured 28 feet, Being over six feet in height, Herres was able to run his surveys in this seam with more comfort than is enjoyed by many engineers in coal mines of some other districts. In 1913 he became assistant engineer for the Utah Fuel Company, in charge of engineering work at Castle Gate, Utah, and Somerset, Colorado, mines.

and somerset, Colorlano, mines.
As a result of ability and hard work,
Herers was appointed, in 1916, superintendent of construction for all of
the Utah Fuel Company's properties,
by this time his qualifications were
attracting the attention of other mine
to proper and the properties of the property
of the United States Fuel
Company, His first position with
this company was superintendent of
the Hiswarha Mine, Hiswarha, Utah
Between 1916 and 1920 he was twice
elected county surveyor of Carbon
County, Utah.

After seven years of service with the United States Fuel Company, he was made assistant to the vice-president, and in 1925 he became assistant manager. Now, in 1937, he is vicepresident and general manager of that company.

All who attended the convention of the American Mining Congress in Cincinnati last year will remember the very interesting and instructive talk delivered by Mr. Herres on the

methods of drilling and blasting coal in Utah.

His interest and activity in the work of mining and scientific organizations have brought him the following distinguished appointments: member of standardization committee. American Mining Congress; member of governing board, Engineering Council of Utah; chairman, Utah section. American Institute of Mining and Metallurgical Engineers; president of the Rocky Mountain Coal Mining Institute; and president of the Utah Coal Operators Association. He has also served as president of the Intermountain Alumni Association of Theta Tau.

In 1914, Florence V. Alexander, of Denver, became Mrs. Otto Herres. They have two children, a daughter Jean, who is attending the University of Syracues School of Music and Fine Arts, and Schuyler, who is following in his father's footsteps at the Colorado School of Mines. Brother and Mrs. Herres now live in Salt Lake City, Utah.



Otto Herres

Letters

March 11, 1937

Dear Brother Howe:
Psi Chapter wishes me to congratulate you
upon your excellent work on the last issue
of True Gean. The articles from different
portions of the world in which our brothers
work met with the highest praise from our
chapter members.

I wish you the greatest of success with the next issue.

Thank you, Brother Piper. We hope you will feel just as free to tell us things you don't like or to offer constructive criticism. Letters like yours serve as our barometer.

> 1440 Laird Avenue Salt Lake City, Utah

Dear Brothers:

Enclosed is my forwarding address for THE GEAR. Although my graduation is comparatively recent I expect to derive extreme satisfaction by continuing my interest in the activities of Theta Tau through THE GEAR.

At the oresent time I am attempting to

At the present time I am attempting to further my technical status in the engineering department of The Eimco Corporation here in Salt Lake.

here in Salt Lake.

With kindest regards and best wishes for
the coming year, I am,

Yours in H & T,
VERNE S. PECK, Lambda '36
THE GEAR will always reach you
if we have your address. We hope

you will enjoy it.

35 Clark St., Apt. D2 Brooklyn, New York

Dear Brothers:

Please advise me of the price of a copy of
the Directory of members of the Fraternity.
Thank you.

Fraternally yours, RICHARD H. LUDEMAN, Theta '33

The last directory, issued in 1928, is out of print and, of course, out of date. We are hoping to see a new one in the not too distant future.

Alder, Montana December 21, 1935

Duer Bondern Mercer and Howe: Ga. and Have just received my Full 1794 colorante and the proposition of the Superintendency of the Murietta Mining & Milling Co. is, like the report on Mark Twain's darch, slightly exaggerated. I am Analyst. Surveys, Bonkleeger, Goodspitt, Timekeeper, Mining Engineer, Consulptin, Montalizapit, Grand Vuier of the Rector and Mentalizapit, Grand Vuier of the Mexicon Rouselboat. In my sparse time I have been forming pipe, framing imber, and solder old jobs that crops up around a 19-min mining month.

Apart from the above error on your part I enjoyed The Gear very much. I wish you the best of luck in the years to come.

In H & T, WALTER A. HAMILTON, Psi '34

We contend, Brother Hamilton, that the exaggeration, if any, was *slight*. Don't see how you find time to read The Gear but will keep on sending

> 9 Granger Place Rochester, N. Y. December 1, 1936

Dear Brothers Mercer and Howe: Remembering the complaints of some of our alumni about not receiving THE GEAR because no one knew their addresses, I am giving you my address to make sure of not missing anything. I hope it's not too late for the fall issue to reach me.

Can you give me some information about the alumni organization? I think it's a mighty good idea and will be glad to help it along. There is certainly a great need for an up-to-date, complete directory to help bring the alumni closer together.

Yours in H & T, HOWARD B. EDWARDS, Pi '36

Organized alumni associations and clubs are listed on page 2. Other such bodies may be formed where ever a group of Theta Taus can get together. A directory is badly needed and is uppermost in the minds of the Executive Council at present. 130 Kansas City St., Rapid City, S. D. March 5, 1937

Dear Brothers Mercer and Howe:

Off the record—My home is or was in Lost
Nation, a little town about 60 miles from
lowa City. Each year since I have been a
Theta Tau I have planned a few hours' visit
at Omicron and Trus Gaas. Somehow, the
idea has always fallen through, but I may
be able to do it sometime after graduation.

I will be looking forward to receiving the next issue of THE GEAR. Yours in H & T, WILL A. BURLESON, Omega '37

We're one up, Brother Burleson, since we have been in your old home town. Hope when you even the score you will drop in on us.

Excerpts From Letters to the Grand Scribe

A. L. Ferris, Beta '11, Gen. Supt., Mina Berlin, Yarumal, Antioquia, Colombia, S. A.

As you know, I came down here to examine some properties. Had been down here only a short time when I was sent to the Mina Berlin to help out for a while. Then I was given the permanent job of running the property, with the title of General Superintendent. We have a 100 ton modern cyanide plant. The country is very interesting and I like it. The altitude is around 6000 ft. so the climate is healthful. The rainy season is just over now and we are having most pleasant weather-very mild, warm in the day time and cool at night. The topography is very precipitous, in fact, just about straight up and down in places. There is much vegetation here. When the timber is cut off and the soil broken, land slides are often a serious problem.

Howard Quinlan, Alpha '14, Colombian Petroleum Co., Cucuta

As you know, I have been in the oil business for the past eney year, have been running the Gulf drilling operations in Colombia for the past twe years and when they recently sold out to a combination of the Texas and Socony-Vacuum, I remained with the new people. It has been a long

time since I was in the Twin Cities, but I hope before long to get back for a visit and hope to meet the boys at the chapter at that time.

Fred H. King, Epsilon, '34, Itogen Mining Co., Baguio, P. I.

About the 2nd of July, I received a letter from Marsman & Co. here in the islands asking if I would be interested in a job with them, starting as chief engineer at one of their properties. If so, I was to get in touch with their agent, which I did. Knowing the company through a friend, and considering the wages, conditions, and opportunities which were much better than I could find at home unless something miraculous should happen, I wired my acceptance and was ordered to sail in two weeks. I arrived in the islands the latter part of August and came directly to the mine, and have been snowed under with work ever

The mill is being expanded from 400 to 1200 tons per day and an intensive development program is being carried out. I am enjoying the work as well as getting a lot of experience and information. I have an assistant and fourteen helpers and I expect to have to nearly double the surveying crew and add another draftsman or two after January 1st.

The GEAR of THETA TAU OFFICIAL PUBLICATION OF THE FRATERNITY

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

211 ENGINEERING HALL IOWA CITY, IOWA

Subscription \$1.00 a Year Life Subscription \$15.00 SPRING, 1937

ACTIVES AND ALUMNI

VOLUME XXVI

Now that we are slowly emerging from the dark days of the Lost Years -if we are-is it not time that once again we give more thought to better and closer relationships between our active and alumni members. These have suffered rather badly during the recent period when almost all thought was directed to mere struggle for existence, but now that the spirit of inflation is creeping into all things, perhaps a little injected into this phase of our fraternity life would be of value

Basically most fraternities are associations to further the social friendships of similarly minded groups of college men. A significant feature, however, is that membership is continuous during college years and after, so that these orders comprise men of all ages. Indeed one of the finest and most appealing points about fraternities is the way they slice through the college classes, freshman, sophomore, junior and senior. In so doing they offer the best and most acceptable method for older men to help and guide younger ones along social and scholastic lines. In this way fraternities properly fit in as an integral part of the educational institution and perform a most useful function within it.

But the fraternity set-up should not and does not stop here. That next older group, the alumni, have the opportunity and the responsibility, if you please, of extending their friendship and guidance to the active members and particularly to the chapters as groups. From no place can a chapter secure more loyal support in any worthy undertaking than from a good healthy group of interested alumni. To actives, frequent contacts with alumni, especially those who have been out of school for several years, may be a spur to greater interest in the profession and in the fraternity. And the alumnus, on his part, occasionally returning to his chapter or visiting some other, may advantageously absorb some of the youthful outlook and exuberance of the actives and incidentally renew faith in himself and his fraternity.

NUMBER 2

Since the chapter is a relatively closely knit group as compared to the alumni body, and usually is at the hub of the wheel geographically, it is natural that most of the effort required to arouse mutual interest must be made by it. Bulletins, cards, and especially chapter letters are most effective means of holding alumni interest and so are certainly worthy of more extended use. Special chapter meetings, Founders' Day Banquets, or college homecomings with a chapter dinner or dance as an added attraction offer the best opportunities for bringing the old grads as a group into personal contact with the actives. As for the alumni, we suggest that each individual should make it a point to take advantage of every opportunity to visit the chapter, make an effort to attend the special group meetings and in any event keep in touch with his own chapter by mail.

One final tip to the actives. When an alumnus drops in or looks you up unexpectedly, put forth a little extra effort to welcome him and entertain him. If you actually must fill an appointment or concentrate on the books see to it that you find another brother who can give attention to the alumnus, for neglect at such a time discourage all but the most chipper of the alumnia and so may cost your chapter a mighty good friend.

SPRING BILL CLEANING

At this time of the year all chapters should look over their financial situation and give close scrutiny to accumulated bills for living expenses and dues. Any one experienced in fraternity management knows that a sum of money owed the chapter by a member is much more difficult to collect after the member has graduated than before. It is therefore necessary for the chapter officers to bring all possible

pressure to bear on

pressure to bear on their delinquents, In cases where the member cannot possibly meet the obligations he has incurred, the chapter should in every instance secure a note. This is an ordinary business precaution and serves as a record, agreed upon by both parties, as to the amount of the obligation. Many an alumnus will be under the impression that the amount is smaller, or that he didn't owe money at all, after a few years have elapsed. The note settles such questions very nicely. It also reduces bookkeeping to a minimum, in that payments on the note can be endorsed on the back and in this way a complete record of the account can be preserved.

For men who fail to pay bills we have but little sympathy. No boarding house or restaurant would allow them to live on credit. No organization would allow them to remain in good the standing with unpund dues. From the business side, a fraternity is no different from such enterprise, except perhaps in extending credit unwisely. In the last analysis, a member who ducks out and allows his brothers to pay his bills is, to put it frankly, a "monocher." By no stretch of the imagination can one of this class be considered a good Thera Tau.

Publications for sale or trade

Journal of the American Institute of Electrical Engineers (now called Electrical Engineering). All issues from November 1927 to date.

Lubrication (a technical publication devoted to the selection and use of lubricants) published monthly by The Texas Company. All issues from September 1928 to date.

Powerfax, published four times a year by Elliot Company, manufacturers

of power equipment. All issues from Summer 1929 issue to date.

Power Notes, published bi-monthly by the Diamond Power Specialty Corporation. All issues from November-December 1933 to date.

All magazines are clean and in good condition. I would appreciate hearing from anyone who might be interested. William J. Ellenberger

1359 Parkwood Place, N. W. Washington, D. C.

In Memoriam

THEODORE J. WELCKER, Beta '11

Theodore Jewell Welcker, born at Bellewe, Idaho, moved to Mammoth, Utah, when a child, with his parents. Early in life head ranged when his father, Albert Welferd and the state of 1911, has because of an interval of work to finance his education his digrees were compared to the state of 1911, has because of an interval of work to finance his education his digrees were compared to the state of the state of

Machier Lode mine, across the glacite from the Kennector mine, for Houghton, Michigan, microsus. Next he went to the Jardine mine at Jardine, Montana. Upon his return from the properties of the properties of the control of the properties of the properties of the Field Artillery, he engaged in equipment business with the Salt Like Hardware Co. and the Sullivan Machinery Co. At the time of his dath, at the age of 46, he was chief geologist for the swyder mining the best of the properties of the strong and the protein of the properties of the strong and the protein of the properties of the strong and the deliber, and Newgla. of operations in Ursh, deliber, and Newgla. of operations in Ursh,

In 1925 Brother Welcker was seriously injured in a mine accident. The accident aggravated an already impaired heart, but his fight to live and accomplish carried him for cleven years more, until his death from sudden heart attack on December 21, 1936, in Salt Lake Cirv.

Brother Welcker is survived by his mother, a sister and a brother, his wife, and two children, Nancy and Patsy. JAMES C. GOFF, Eta '13 THE GEAR has received word of the death

of James C. Goff, December 24, 1935. Brother Goff, at the time of his death, was an executive with the Scully Steel Products Co. in Fittsburgh, Pa., and was very well known in steel circles.

ARNOLD BELL, Zeta '20

Arnold Bell was killed in an automobile accident near his home in Ironwood, Wisconsin, on Oztober 11, 1916. Brother Bell graduated in mining engineering in 1920, In 1917, before graduating, he left college to join the army and had an excellent service record. In 1920 Arnold was Regent of Zeta Chaster.

ROBERT VAN ARSDALE NORRIS, JR., Theta '17 Robert V. Norris, born in Wilkes-Barre, Pennsylvania, June 9, 1894, died January 17, 1937. After graduating from high school, Brother Norris attended Yale University, receiving his

Ph.B., and later attended Columbia University. Brother Norris married Claire Church in 1917. At that time he was Assistant Superintendent, L. C. & N. Co. Later he was Auditor of Operations, Hasle Brook Coal Co., then went into a partnership in the R. V. Norris & Son Company. Brother Norris was a member of the A.I. M. et al.

He is survived by his wife and one daughter. Claire Irene, who are living at 108 East 38th Street, New York City.

Additions to Membership

414 John C. W. Stegmeir, St. Paul, Minn. 415 Clifford B. Ohman, Cloquet, Minn.

BETA

413 Richard A. Ferguson, Michigan City, Indiana

414 John M. Swanson, Ishpeming, Mich. 415 Ronald P. Campbell, Ironwood, Mich.

416 Robert P. Klenner, Houghton, Mich. 417 Robert Williams, Duluth, Minn. 418 Ernest Klenetko, Ir., Pacific Palisades

8 Ernest Klepetko, Jr., Pacific Palisades, Calif.

GAMMA

GAMMA

469 Tench G. Swartz, Williamsport, Penn.
470 Macy C. Smith, Colorado Springs, Colo.
471 Carl R. Modebach, Golden, Colo.

72 Arthur C. Smith, St. Petersburg, Fla. 73 Orville O. Shott, Acme, Wyoming 74 Thomas C. Baker, Fresnillo, Zacatecas,

4 Thomas C. Baker, Fresnillo, Zacatecas, Mexico 5 Charles M. Tarr, Huntington Park,

Calif.
476 Robert J. Hundhausen, St. Louis, Mo.
477 Hubert E. Risser, Kansas City, Kansas

477 Hubert E. Risser, Kansas City, Kansas 478 Arthur J. Weinig, Golden, Colo. 479 Wesley G. Moulton, Las Vegas, N. M. 480 James A. Appleton, South Gate, Calif. 481 Joseph E. Hopkins, Fairbanks, Alaska

482 Rex E. Flynn, Lamar, Colo. 483 William F. Falligan, Denver, Colo.

Howard A. Sawitzke, Willoughby, Ohio Richard J. Scanlon, Dainson, N. M. George Yeager, Denver, Colo.

George Yeager, Denver, Colo. Henry B. Estabrooks, Dubuque, Iowa W. Adin Marshall, Golden, Colo.

369 George F. Bateson, Youngstown, Ohio 370 Robert C. Boehm, Cleveland, Ohio

371 Edward J. Loeffler, Cleveland, Ohio John T. Looney, Cleveland Heights, Ohio

Robert J. Neville, Shaker Heights, Ohio William K. Riemenschneider, Canton, Ohio

Ernest W. Taylor, East Cleveland, Ohio William B. Seaver, Doylestown, Ohio John J. Graham, Shaker Heights, Ohio

Gordon F. Markley, Cleveland Heights, Ohio

William C. Louden, Mentor, Ohio Scott H. Hanville, Ashland, Ohio

Richard A. Engelhardt, Lorain, Ohio Seth P. Osgood, Akron, Ohio

Fadel J. Fadel, Cleveland, Ohio Glenn R. Hornke, East Cleveland, Ohio 385 Alfred B. Jepson, University Heights,

Ohio

Charles R. Horsburgh, Shaker Heights, 186 Ohio Alfred S. Willard, Cleveland Heights,

Ohio William R. Neely, Franklin, Penn,

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367 Hugh W. Magruder, Lawrence, Kansas 368 Alonzo G. May, Longton, Kansas

369 Raymond M. Rogers, Toronto, Kansas THETA

Frederick H. Dutcher, Upper Mont-

clair, N. J. Lincoln T. Work, Ocean Grove, N. J.

Wilbert F. Rath, New York City Andrew Checkovich, Amityville, N. Y.

John E. Dumaresq, Flushing, N. Y. Jose R. Bejarano, Lynbrook, N. Y.

Kurt Massfeller, Daytona Beach, Florida William M. Sheehan, Howard Beach, N.

230 Khatchik O. Donelian, New York City Norman C. Britz, Buffalo, N. Y.

Anthony A. Le Piccolo, Brooklyn, N. Y. John H. Berger, White Plains, N. Y. 234 David E. Bilton, New York City

330 Walter F. Brever, Rolla, Mo. 331 Joseph F. Carroll, Rutland, Vt.

332 J. Craig Ellis, Maplewood, Mo. 333 J. D. F. Evans, Riverside, Ill.

J. Warren Frame, Rolla, Mo. 114

E. B. Lanier, Pittsburgh, Kan. 336 J. Carl Moore, Alcoa, Tenn.

Fred M. Mueller, Adrain, Mo. Herbert L. Prange, St. Louis, Mo.

Cecil Robertson, Marshfield, Mo. 340 W. P. Ruemmler, St. Louis, Mo. 341 Robert C. Seibel, St. Louis, Mo.

M. W. Taylor, Rolla, Mo. Alfred F. Bochenek, Gardner, Mass, George W. Dickinson, University City,

Charles G. Heslel, Ellis, Kansas 346 Jesse S. LeGrand, Doe Run, Mo. 347 William G. Maloney, Kansas City, Mo. John A. Short, Eldred, Ill.

Robert C. Treseder, Salt Lake City, Utah Joseph G. Smith, Salt Lake City, Utah David H. Jarvis, Washington, D. C. Harry W. Robbie, Provo, Utah

Allen Jensen, Salt Lake City, Utah Wilford G. Winholtz, Ogden, Utah Ray W. Morgan, Tooele, Utah

202 Henry A. Skebo, East Chicago, Ill. Faul R. Cooke, Poughkeepsie, N. Y. 205 Clyde M. Hoffman, Dover, N. Y. Gywnne R. White, Coleman, Texas W. Frank Cable, Memphis, Tenn. Charles H. Coleman, Eutaw, Alabama

Robert B. Buchan, Springfield, Mass, Albert Smith, Jr., Fosters, Alabama Carl Adams, Jr., Birmingham, Alabama

Edmund M. Starer, Trenton, N. Y. Henry G. Lankenau, Altoona, Penn.

Warren R. Carson, Coatesville, Penn Jake T. Nolan, Alexander City, Ala,

OMICRON 209 L. Gerard Simon, Rome, N. Y. 210 Robert E. Benton, Malvern, Iowa

Faul E. Weber, St. Louis, Mo. Frank S. Junk, Brookhaven, Miss. Louis H. Butterworth, Hinsdale, Ill.

Paul F. Aschenbrenner, Dysart, Iowa (previously published)

Stephen Westaby, Madison, S. Dakota Francisco A. Lopez, Panama City, Panama

Roberto F. Lopez, Panama City, Panama 218 Lester A. Sanger, Morse, Iowa 219 J. Max Cartwright, Iowa City, Iowa

199 Robert S. Runnion, Jr., Raleigh, N. C. 200 Henry A. Ruddock, Charlotte, N. C.

201 Ephriam L. Sawyer, Red Springs, N. C. 202 Frank C. Ziglar, Charlotte, N. C.

203 George R. Killam, Jr., East Orange, N. J.

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196	James	R.	Boylan,	Powell,	Ohio

155	Charles W. Floring, Syracuse, N. 1.
156	Harold D. Hastings, Syracuse, N. Y.
157	Dana H. Barnes, Jr., Bristol, Conn.
158	Ronald W. Blair, Solvay, N. Y.
159	Lloyd T. Chency, Butfalo, N. Y.

160 Kenneth R. Davenport, Syracuse, N. Y 161 Edward A. Fassler, La Fayette, N. Y. 162 Harold E. Goodman, Brooklyn, N. Y.

John L. Bogdanoff, Baldwinsville, N. Y. 163 Emerson L. Bouton, Livingston Manor, William F. Boyle, Jr., Wanamie, Fenn.

Douglas L. Burrell, Syracuse, N. Y. Eugene P. Cummings, Jr., Syracuse, N.

168 C. Elliot Davies, Kingston, Penn. Wayne E. Huntley, Phoenix, N. Y. 169 170 Gordon J. King, Manlius, N. Y.

Paul H. Lee, Syracuse, N. Y. Donald F. Schug, Syracuse, N. Y. Fred C. Tuck, Warners, N. Y.

Arthur J. Wadsworth, East Syracuse, N. Y Howard H. Weimer, Canastota, N. Y.

Ronald L. Wiggins, Ogdensburg, N. Y. 176

115 Delbert A. Schmand, Little Rock, Ark. John Holden, Jr., Pine Bluff, Ark.

William B. Stelzner, Jr., Fayetteville, Ark. Jack M. Wyatt, Jonesboro, Louisana

Francis A. Mulholland, Anderson, Indiana

Nicholas Barsha, Anderson, Indiana

Edmond F. Marum, Tucson, Arizona Makes D. McLean, Morenci, Arizona Neal D. Houghton, Jr., Tucson, Arizona William C. Gohring, Phoenix, Arizona Stanley M. Moos, New York City

134 Percy E. Coe, Phoenix, Arizona

Albert H. Buehman, Tucson, Arizona Fred H. Pope, Princeton, B. C., Canada Sam A. Mitchell, Helena, Montana Max Rudin Rohrmoser, Costa Rica

Robert A. Blake, Butte, Montana

Kalervo A. Hyyppa, Roberts, Montana

72 George T. Hanson, Butte, Montana Thomas A. Greene, Whitehall, Montana Vincent K. Loughran, Butte, Montana

George A. Davison, Baxter Springs, Kansas

GAMMA BETA

Maxwell G. Christopher, Capitol Heights, Md. Frantz W. Rarey, Washington, D. C.

John H. Rixse, Jr., Arlington, Va. Kenneth R. Sommer, Washington, D. C. Karl O. Vartia, Washington, D. C.

Employment Service

RULES

1. LENGTH: Notices are limited to 40 words. 2. DEADLINE: Copy for the Fall GEAR must reach the editors by November 1 and for the Spring GEAR by March 15.

3. CHARGE: A fee of 5% of the first month's salary will be charged those men who are successful in securing a position through the service. 4. REPEATED NOTICES: A notice will be published once unless a request to reprint it is

received after its publication. 5. RESPONSIBILITY: THE GEAR does not assume responsibility for statements contained in employment notices.

6. EMPLOYERS: Employers may obtain from THE GEAR the name and address of any applicant by giving the number of the employment notice.

M. M. 4-B. S. in geology, University of California. Age 32. Five years experience in mine geology and mining. Desires a position with a responsible company anywhere.

Letters from the Chapters

Alpha Gives Rushees \$10,000 (?) Each



Alpha Chapter ended the winter quarter program with the election of officers. The following were chosen: Robert B. Aslesen, Regent; Daniel O'Keeffe, Vice-Regent; Harry A. Larson, Treasurer; Robert F. Hodgman, Seribe; and Lloyd

A. Lewis, Corresponding Secretary. The chapter has been very active this quarter. Initiation at the beginning of the quarter introduced Clifford Ohman and John Stegmeir into the active chapter roll. The rushing season was begun auspiciously with a new scheme. At the suggestion of Brother O'Keeffe, the chapter house was turned into a "gambling den" for an evening. Each rushee was presented with ten thousand dollars worth of bogus money and turned loose to squander it at the several gambling games in various parts of the house. Prizes were awarded to men finishing with the most money. This hectic evening ended with the pledging of four men: John Allen, Craig Olson, Millard Troxell, and Charles Rogers, and since that time we have pledged Lester Anderson,

A technical meeting was held February 15th. Dr. George M. Schwartz of the Department of Geology gave an interesting illustrated lecture on the geology of the Twin

Our social calendar was well filled; the major event was the Interpretessional Frater-nity Ball, January 15th, which half of the active chapter attended. March 6th saw the active chapter attended. March 6th saw the rejuvenation of the "Green Tie" Formul, formarly an annual affair in which the three major professional engineering fraternities of the campus, Theat 3 Tau, Kappa Eta Kappa, and Triangle collaborated. The party was revamed into an annual formal dinner dance.

under the name of the Tri-Tech Formal.

During this winter quarter we captured the Interprofessional and All-Faternity volleyball crowns, besides reaching the finals in the third place playoffs in basketball. We also participated in touchball, ping-pong, handball and tennis, and during the spring quarter we intend to compete in kittenball, tennis and

tend to compete in kittenball, tennis ar track.

LLOYD A. LEWIS

March 13, 1937

LLOYD A. LEWIS

Beta Enjoys Seven Day Quarantine



as it happened two years ago. Although this may sound like a hardship I think we all had a goad time missing swen days of school. But we still have plenty of now, hence the Michigan Tech Winter Caravial which, as usual, was sponsored by the Blue Key Fraternity. Brothers Koryhalki, Sanabras and Swamon played important parts as members where the still a state of the Queene' election and Brother Swamon was in charge of the Queene' election and Brother Swamon was in charge of publicity.

Speaking of parties, Beta gave a buffet din-

ner the night of the Winter Carnival dance and entertained thirty couples including the three queens. Since this one was such a great success we are planning to have many more

of them.

Since the last issue of THE GEAR we have welcomed Paul Klenner, Bob Williams, Ron Campbell and Ernest Klepetko as brothers. We now have thirty-six active members and two pledges. Frank Woodruff and Tommy

Bennett.

As usual we have elected our new treasurer in March so he may become familiar with the books under the guiding hand of the past treasurer. Brother Paul Harrington was elected to relieve Brother EA (Korybalski who did more than an excellent job of handling our financial fairts for the past (welve months.

Brothers John and Jim Hascall played hockey for Tech this year, helping Tech win a good share of their games. Brothers Gribble,



Most of Beta's 36 members dashed out for a quick snap shot

Krohn, Cosgrove, Bjork and Kolkoski, who was the captain, played with the Tech basketeers to push them along, not to championship, but to a good showing.

Along that same line, Beta is well toward the top in the intramural sports. Even though we did drop the hockey games, we came out near the top in basketball and on top in bowling. We hope to take both the volleyball and softball this spring.

Tau Nu Tau has Brothers Manger, Cosgrove, Gribble, Ringle, Korybalski, Baxter, and Sanabria, who is the president. Alpha Sigma Mu has elected Brother Krohn and Chi Epsilon Chi has initiated Brother Manger.

This year it is again time for another famous Michigan Tech Engineering Show.

Brother Korybalski is co-chairman of the general committee and Brother Swanson is chairman of the publicity committee. This is one of the most outstanding events of the year on our campus. It is to take place May 13, 14, and 15.

We are drawing plans for a major improvement of the exterior of the chapter house and hope to have them completed in the near

Again this year Beta is up there in scholarship and we hope to take the trophy for the sixth consecutive year. We also hope to keep the Army Trophy this year, for if we do it is ours for good.

March 13, 1937 RICHARD D. HOLTZ

Epsilon Says Nothing About the Unusual Weather

Epsilon Chapter has embarked on what promises
BERKELEY
CALIF.

of the other offices, and the co-operation
of the other offices, and the co-operation

the leadership of Regent Phil Chubb, the assistance of the other officers, and the co-operation and activity of the chapter members. The officers assisting Phil Chubb during this spring semseter are. Vice-Regent, James Joubert; Serbe, William Mother: Treasurer, Iar Law-Arthur, and Corresponding Secretary, Milan Arthur, and Corresponding Secretary, Milan

We are very glad to have Dean Probert of the College of Mining back after his recent serious illness.

The spring open house was held on February 11th. Dr. Byerly, Associate Professor of Seismology, was the after dinner speaker, and he gave a very interesting talk on travel time curves which was enjoyed by chapter members and guests.

The Chapter began the semester with an active list of twenty-five members. Fifteen mem were elected to membership, and the initiation date has been tentatively set for April 3. Luncheon meetings have been held on February 18th and on March 12th.

Vard Stockton, varsity guard on the California eleven, has taken to wrestling this semester, Phil Chubb is on the rugby team, Ken Hill on the basketabil team, and William Clough is active in intramural sports. Many of our members are active in honor and general fraternities. Durell, Gregory, Wilson, or proposed the proposed of the proposed Gregory and Millorin are in Tau Beta Fig. Reynolds is in Skull and Key, Neilson is in Golden Bear; and Stockton in the Big C Society. Bill Neilson is president of the Engineers' Council and assistant manager of the We are looking forward to continued success and to a fine group of new members to further the interests of Theta Tau. MILAN ARTHUR

March 15, 1937

Zeta Brother Lends His Queen to Hobnail Hop

Zera Chapter held elec-LAWRENCE tion of officers November 10, the following men

being elected: Regent, Clifford Willis; Vice-Regent, John Grist; Scribe, Victor Koelzer; Corresponding Secretary, Ed Heter. Another election is to be held March 23, and the new officers installed in time for

member of the Men's Student Council. In A. S. C. E. we are represented by Ray Rogers, Guy Guthrie, Lester Haug and Montgomery Veatch. George R. Russell is vice-chairman of A. S. M. E., and Clifford Willis is secretary of A. I. M. E.

Brother Jesse Gamber won the award for "The best student-written article for the school year 1935-1936," given by the Engineering College Magazines Associated. Bro-



Front row: Prof. Warner, Prof. Hay, Heter, Koelzer, Willis, Grist, Benz, Prof. Russell, F. Smithmeyer

Second row: McKinney, Barnett, Beard, Janzen, G. May, Nottingham, Grant, Flanders, G. M. Russell, R. Russell Third row: Thomen, Bloom, H. Moreland, Veatch, Guthrie, Cole, Brock, V. May,

Clemens Fourth row: Bowden, Busher, Harries, Waid, Rogers, Thudium, G. W. Russell,

Magruder Back row: Haug, L. Smithmeyer, Larson, Elliot, W. Moreland, Ritchie, Scofield

Formal initiation ceremonies will be held March 21 for the following men: Proctor Ritchie, Axel Anderson, Martin Thomen, Sam McKinney, Herman Janzen, Don Barnett, Fred Thudium, Louis Smithmeyer, Montgomery Veatch, George W. Russell, and Charles Grant. After this initiation we will have 36 actives and 10 pledges.

The fall formal party was a great success and everyone is looking forward to the spring party to be held May 8 at the Hotel Eldridge, where the boys will be swinging to the music of Red Blackburn's orchestra.

Zeta men in honorary organizations include Allen Fultz, Ed Heter, John Grist, Wesley Moreland, and Victor Korlzer in Sigma Tau; and Allen Fultz and Victor Koelzer in Tau Beta Pi.

Zeta is well represented in school activities. Lewis Benz is president of the Engineering Council, with John Grist, George W. Russell, Clifford Willis, Bill Witt and Victor Koelzer

also on the Council. Victor Koelzer is a ther Gamber's article, which discussed the new 425-ton telescope at California Institute of Technology, appeared in the Kansas En-

gincer. Brother Howard Moreland won his second letter by playing guard on the university football team. With the return of baseball to the university's sports program, several men are aspiring to positions on the team. Brothers Grist, McKinney, and Gail May are among the candidates.

Zeta was very successful in fall intramural sports. The touch football team won its division and a cup, being undefeated, untied, and unscored on. Pledge Larson won the horseshoe singles championship, defeating Brother Heter in the finals. In team play, our horseshoe team was runner-up. The basketball team was moderately successful, breaking even in its games, being in a division with some very strong independent teams.

Brother Johnny Grist is very happy over the outcome of the election of Engineer's Queen for the annual Hobnail Hop, as his own pride and joy was the successful candidate Incidentally, Brother Grist presided at the nolls during the election, but we are not questioning his integrity, as Brothers Benz

and Russell helped count the votes. Brother Proctor Ritchie has been elected president of Phi Gamma Delta, general fraternity. He is also a consistent point winner on the university swimming team.

Brother Fleming Scofield has joined the faculty of the university to teach surveying while he completes his studies toward his degree.

Zera Chapter is losing only seven men by graduation this spring and with the large number of men returning next fall, we are school year for 1937-1938.

VICTOR KOLLZER March 8, 1937

Tota Inaugurates Student Forum



Iota Chapter has been pushing along this year and making progress. The officers are the same as listed in the last GEAR. with Brother Logan heading the chapter as Regent. Last semester's crop of pledges lived up

to all expectations. The new members initiated last semester are: A. F. Bochenek, G. W. Dickinson, C. G. Heslet, J. S. Le Grand, W. G. Maloney, S. S. Post, and J. A. Short. The chapter is still maintaining its scholar-

ship standing with two of the brothers, Ruemmler and Seibel, in the latest list of Tau Beta Pi pledges. In every campus activity members of the

chapter may be found taking important ports. Listing the individuals and their particular activities would occupy considerable space. The new pledges will number ten well chosen men. It is planned to have a spring

dance in their honor when the initiation takes

Iota Chapter has been in the spotlight on the camous for the last several weeks due to the inauguration of a student forum sponsored by the chapter. The idea in sponsoring such an activity is to furnish a common meeting ground where all students might meet for the purpose of exchanging their views on subjects pertinent to campus affairs. There was some doubt expressed as to the possibility of successfully promoting the plan at first. By the careful selection of subject matter and by a good publicity campaign the student forum proved to be all that could possibly be expected, thanks to the efforts of Brother Bochenek. It is the intention of the chapter to continue this plan with hopes of developing it into a permanent institution.

The chapter is sending a delegation to the Regional Conference at Iowa City. E. B. LANIER

March 12, 1937

Bitter Winter Can't Cool Lambda



Though Salt Lake shivered with the coldest winter in forty years SALT LAKE CITY and struggled with a record snow fall, Lambda Chapter's fire of enthusiasm was not cooled nor her ardor dampened.

An informal pledge party was held early in November in the Game Room of the Union Building on the University campus. On November 22 the fall quarter initiation was held. At that time the following were initiated: Robert Treseder, Joseph Smith, Allen Jensen, Harry Robbie, David Jarvis, Ray Morgan, and Wilford Winholtz. The initiation was followed by an banquet at which the prospects of the erection of a Tomb in the near future were discussed. This initiation increased the membership of Lambda Chapter to twenty-six. The present membership is two less because Brothers Weyher and Peterson have not been in school during the present quarter.

Due to too great a load of studies and outside activities Brother Benson felt unable to devote sufficient time to his chapter duties, He, therefore, tendered his resignation as Scribe early in this quarter. Brother Bulkley was elected to fill the vacancy and Brother Collins was appointed Corresponding Secretary in Bulkley's place. The other officers are: Regent, Richard Reinhold; Vice-Regent, Lynn Madsen; Treasurer, Burton Hatch.

We have lost one of our members from the ranks of bachelorhood, for Brother Russ Madsen took himself a wife during the Christmas holiday.

Brothers Bulkley and Tower and Pledges Richard Treseder and Silver have been elected to Tau Beta Pi. Bulkley and Treseder were two of the three "Honor Students" elected by Tau Bate this year.

An interesting trip was taken early in February to the Smelter of the Utah Copper Co. at Magna, Utah. Brother Adams accompanied the party and added much to the interest of the trip by his fine explanations.

Weekly luncheons have been held during this quarter. These luncheons provide an excellent means of bringing about closer fellowship among the members and pledges and also give a good opportunity for becoming acquainted with the prospective pledges who

The Chapter brought this quarter to a brilliant end at a dinner-dance held at the

WILLIAM L. BULKLEY March 18, 1937

Mu Seems to Be Going to Town



back on its feet again Under the leadership of its able officers Mu is now one of the strone fraternities at the univer-Adams, Regent; Jake Nolen, Vice-Regent;

Charles Coleman, Secretary: Frank Cobb, Treasurer; Milton Ellis, Marshal; Milton Davidson, Inner Guard; and Emmett Parrish, Outer Guard.

Last February 14th Mu initiated four men into the fraternity: Jake Nolen, Milton Davidson, Henry Lankaneau, and Warren Carson. On March 14th eight more were initiated: Kenneth Byrd, Ed Burwell, Ronald DeHoff, Horace B. Hanson, Gregory Skinner, Her-shelle Livingstone, Bill Reynolds, and John Light.

Mu Chapter is very proud of these new members, for they are outstanding men in the College of Engineering.

St. Pat's Day was a big day in the life of Alabama Mu. The engineers here celebrated that day as a holiday, which includes exhibits, a banquet, and two dances. At the banquet Mu presented the Annual Theta Tau Award to the outstanding graduating senior engineer. The presentation speech was made by Recent Carl Adams. At the night dance Mu had its annual leadout, led by the Regent with Miss Patricia Patterson. Mu Chapter also had a striking exhibit to display the outstanding senior cup mentioned above. Mu's activities for the rest of the year will

include a picnic and the publication of a

Mu is very proud of the honors which its members hold. The chapter boasts two men recently initiated into Omicron Delta Kappa, Brothers Adams and Nolen. Brothers Adams, Nolen, and Ellis were initiated into Tau Beta Pi last fall; and at the St. Pat's Day Ball Brothers Light and Hanson were tapped by this honorary fraternity. Mu has five men on the St. Fat's committee: Brothers Adams, Nolen, Reynolds, Ellis, and Cobb. Four brothers are members of Chi Beta Phi: Adams, Hanson, Light, and Cobb. A clean sweep was made of the junior class offices. Brother Skinner is president; Lankaneau, vicepresident; and Nolen, secretary, Brothers Adams and Skinner served on the Junior Prom Committee. Brother Nolen is a member of Gamma Sigma Epsilon. Brother Hanson is a member of Scabbard and Blade. Brothers Adams, Nolen, Light, and Ellis are members of Phi Eta Sigma.

With only one man graduating this spring Mu looks forward to a prosperous year.

March 13, 1937

Nu Forced to Change "Buzz Saw" Program



Times are getting better at Nu Chapter with an increase of ten members since last fall. Evidently the present activities of

this chapter have obtained the endorsement of the student body. Our annual awarding of the title and plaque

"to the most promising senior engineer" will be continued as per usual this semester.

Nu Chapter reopened its Cultural Talk program Wednesday night with "A Discussion of the Proposed Schedule Change" by Director

Iones of the College of Engineering. In relation to the above mentioned change in schedules at C. I. T., there is included:

changes in required courses for the different departments; compulsory attendance of summer school for specified laboratory and shop credits; and the scheduling of Saturday classes for students who have conflicting week day schedules. The Saturday morning idea is a Saturday morning "buzz-sawing." But considered jointly, the rearrangement of the courses really tends to lighten the schedule by spreading the school year over a longer period and allowing more time for the "in that it can stage more, bigger, and "whospier" affairs.

The new officers for the coming year are: James Kirkpatrick, Regent; Charles Beard, Vice-Regent; Sam Giordano, Scribe; and Ray Gulland, Corresponding Secretary. It was unanimously voted that Professor Daniels (Grand Vice-Regent) should continue in the office of Treasurer.

Brother Karl Rinderle is not in school this year but intends to return next semester. Hey! How about some of you alumni guys of Nu Chapter writing the good old Nu headquarters and giving an account of your-

RAY GULLAND March 10, 1937

Ancient Eggs Fly at Omicron



This semester Omicron five pledges on her rolls. The officers who have been directing the activities are: Louis Butter-worth, Regent; Paul Weber, Vice-Regent; Gerard Simon, Steward; Robert Benton, Scribe;

Stephen Westaby, Corresponding Secretary; Donald Marstellar, Marshal; Paul Aschenbrenner, Inner Guard; Milford Phillips, Outer Guard. February 7 saw the formal initiation of Brothers Stephen Westaby, Max Cartwright, Francisco Lopez, Roberto Lopez, and Lester

Sanger. We are proud to have these new men Omicron men have been active in campus life and the engineering college. Brother Sayre is head of the Associated Students of Engineering, who run the annual engineers' celebration, Mecca Week. Others of our men were active in committees for the Mecca Ball, Banouet and Show. This year the tide of the battle between the laws and engineers was all in favor of the engineers. On the night of the Mecca Ball, on March 19, the boys in the house had a short but exciting scuffle with some laws. Mecca Week is the engineers' week during which the law school and the engineers have an annual feud. The engi-

neers were doing about as they pleased, to the annovance of the laws, so some of them paid us a visit and began to anoint our house with over-ripe eggs. The boys in the house, who were putting on their best suits and green shirts and ties at the time, were obliged to change quickly into their fighting togs. The ten engineers led by "Heart Throb" Weber, "Alf-Kansas" Willey (alumnus from Zeta), and "Tiny" Nyland (210 lb. alumnus of Alpha), soon had the twenty laws either in flight or in capticity. The next day we had a smelly good time cleaning the eggs from the windows and porch.

Several of our men have achieved success in the scholastic field. Regent Butterworth and Pledge Winkelholz have been elected to Tau Beta Pi, and Rex Sayre is a member of

Pi Tau Sigma. Our basketball team is tied for first place in the professional interfraternity league, and our bridge team is putting up a strong fight in the university bridge tournament

We have an innovation this year. On the first Sunday of each month the fellows bring their dates to the chapter house for dinner. The plan met with such success that it bids to become a traditional affair. On February 26 we had a very successful radio party.

Most of the fraternity's group activities have been centered around the preparations for the midwestern regional conference which was held here in Iowa City on March 27 and 28.

ROBERT BENTON

March 28, 1937

Rho Does a Little Barn Warming

When the slide rules are put up for the week-end there's no telling where potential engineers will turn up. Several of our Rho Chapter men tem-

porarily forsook their chosun profession this work-end to do an disquise and represent the respect of the property of the control of the ing. During the more industrious hours however, versatility in not sacrificed for the more routine studies. C. D. Delmart, for example, has led a group of increated varieties in the has led a group of increated varieties in the has led a group of increated varieties in the Southern Engineer magazine. The engineering school has given its whole-factorial approval and support to the new magazine while Thate.

Regent Carl Lange and Rho's 14 actives are planning varied activities for the chapter. Preparations are being made for a banquetinitiation about April. Under discussion at present are the institution of a Theta Tau cup for the sophomore of most promising engineering ability and a plan for the aiding and guiding of freehmen engineering students by Theta Tau men.

The North Carolina State College Engineer's Fair of April 2 and 3 has all members of Rho reporting the State of April 2 and their respective objects of the State of the State

More about the chapter members include the facts that C. D. Delamar is chairman of the Chemical Engineering Department's fair committee, and that Frank Ziglar and George Killam have recently been elected as Treasurer and Seribe respectively of Rho Chapter of Theta Tau.

Sigma Bears Down on Intramurals

COLUMBUS

Sigma held the winter election recently with results as follows: Norm Schoewe was reelected Regent, and Carl Fischer was reelected Corresponding Secretary. The remaining chapter officers

are Robert Frazier, Vice-Regent; Robert Derrenberger, Treasurer; Robert Gilchrist, Scribe; Elbert Boebinger, Marshal; and James M. Robinson, Steward. At the present time we have 18 actives and 9 pledges.

Sigma has been quite successful in extracurricular activities again this year. Theta Tau men here seem to realize the importance of these activities and there is an unusual interest taken in them by actives and pledges alike. Here is the list of men doing work in campus organizations. Eugene McPherson, John Saalfield, James Robinson, and Richard Pi. James Robinson is the Editor of the Ohio State Engineer; Richard Sloane and Elbert Boebinger, Associate Editors; Robert Frazier, Departmental Editor; Robert Derrenberger and John Ksepko, Editorial Assistants; Stephen Ginal, Business Assistant. Sigma has four places on the Engineer's Council, Carl Fischer, Secretary and Treasurer, representing the Chemical Engineers; Elbert Boebinger, Mechanical Engineering representative; James

Robinson, the Ohio State Engineer representatives and Pelage Jay Rabuck, a hard working lad, represents the Civil Engineers. At a recent S. S. I. E. meeting Pelage Ankrom was elected Junior Representative of Industional Pelage and Pelage and Pelage was considered to the Pelage and Pelage var ere period. The title of the play is "Chrliefs Aunt' starring an all male cast including five Sigma men, Robert Derrenbeger, Stephen Ginal, Randle Hackman, and Pledge Ankrom and Sanborn. Pelage Anhonorary Sigmal Grover Patternity.

This year Sigma was very successful in intramural sports. The bowling team, including Norm Schoewe, Stephen Ginal, Robert Gilchrist, George Rowland, and Albert Morrison was very successful, going up to the university semifinals to set a new high for Sigma bowlers-congratulations boys. For the third successive year Sigma basketballers were runners-up in their league, but there is always another year to try to win. We don't lose any of the cagers from this year's team so the future does look bright. All the boys are looking forward to that softball championship that we must defend this spring as we won the university championship last year, Although graduation took its toll, we have a likely group of rookies coming up to take their places.

Sigma held three very successful radio

dances at the house this winter which afforded a great opportunity for a little rushing on the side and provided relaxation from books, drawing boards, slide rules, and engineering

little parties are fine things. Randle Hickman is our new social chairman and a really hard working boy.

CARL D. FISCHER

Tau Has Bumper Crop of Nicknames



most successful seasons in recent years. The All-Engineers Dance which we sponsored last semester, was a grand success. Our fall rushing resulted in fifteen pledges, fourteen of whom were initiated. Our first initiation banquet in recent

years was held in February. It was thoroughly enjoyed by all.

Right now we are busy completing plans for the Engineers Banquet which we sponsor annually. The principle speaker this year is to be Doctor Hugh L. Cooper, internationally known hydro-electric engineer.

Spring rushing, election of officers and our spring dinner-dance are all being held in abeyance until the banquet is out of the way. One thing that we are rather proud of is that five out of the seven men recently elected to Tau Beta Pi are Theta Taus. This brings our representation in Tau Bate to eight.

The following is an attempt to introduce some of the active members of Tau Chapter to the members of other chapters:

Dick (the hard-to-get Beta) Freyberg is the oldest man in point of service in the chapter. He is a past Regent of Tau Chapter, Recording Secretary of Tau Beta Pi, past President of Beta Theta Pi, member of Phi Kappa Phi, Pi Mu Epsilon and the student chapter of A. S. C. E.

Bob (Gee Fellows) Oertel is our present Regent. He is a member of the Applied Science Honor Committee, past secretary of the school bowling league and a member of the student chapter of the A. S. C. E.

FLASH-While this letter was in the throes of composition the results of the recent student election were announced. We find that Brother Fred Wise has been elected president of the student body. Congratulations Fred. Fred is also Cadet Colonel of the R. O. T. C., pledge of Tau Beta Pi, member of Sigma Nu, Pi Mu Epsilon, A. S. M. E., Scabbard and Blade, and is marshal of Tau Chapter. Bill (Tall, Blond, and Handsome) Chamber-

lain is the treasurer of Tau Chapter. Bill is a Cadet Captain in the R. O. T. C., member of Scabbard and Blade, Sigma Phi Epsilon and A. S. M. E.

Bob (Dad Says) Floyd is Vice-Regent of Tau, Chairman of the Engineers' Banquet, and past secretary of the A. S. C. E. Don (Oh Well) Hastings is chairman of

the alumni committee of the chapter, member of Tau Beta Pi, chairman of the Executive Council of Pi Mu Epsilon and secretary of A. I. E. E. Bill (Slide Rule Will) Robinson is Scribe

of Tau Chapter, president of A. S. C. E., member of Tau Beta Pi and Pi Mu Epsilon. Chuck (I Was Jes' Thinkin') Floring is chairman of Tau's social and rushing committees, chairman of the All-Engineers' Dance. president of A. I. E. E., and a member of Kappa Sigma. Lloyd (Old Sammy Said) Cheney is secre-

tary of A. S. C. E., member of Sigma Pi Sigma, and a pledge of Tau Beta Pi. Ronnie (Champ Bowler) Blair is president of the Applied Science Bowling League and a member of A. S. M. E.

Fred (Bandsman) Weeks is Inner Guard of Tau. He is also a member of the university band and A. S. M. E.







Chamberlain, Wise, Oertel, Floyd

Ed Fassler is chairman of the banquet's transportation committee and is a member of A. S. M. E.

Harold (Bob Calls Him Barney) Goodman is a member of Phi Gamma Delta, swimming team, and A. S. M. E.

John (The Mad Russian) Bogdanoff is a pledge of Tau Beta Fi, member of Pi Mu Epsilon, and A. S. M. E.

Epsilon, and A. S. M. E.

Doug (Actor) Burrell is a member of Beta
Theta Pi. Doug recently took part in the
university's presentation of Daughters of

treus. Paul (Ham) Lee is a pledge of Tau Beta Pi, member of Pi Kappa Alpha and U. S. Naval Reserve. Other A. R. R. L. men

please note.

Elliot Davies is a pledge of Tau Beta Pi, member of Sigma Chi, Year Book staff, Pi Mu Epsilon and A. S. C. E.

Hu Epstlon and A. S. C. E.

Howard Weimer is a Sigma Chi and a member of A. S. C. E.

Ronnie Wiggins is a member of Sigma Nu,

Ronnie Wiggins is a member of Sigma Nu, A. S. C. E., Honor Committee and the varsity swimming team.

arch 9, 1937

Upsilon, Like an Army, Travels on Its Stomach



Upsilon of Theta Tau
wishes to report a very
successful year here on
the campus of the University of Arkansas. Our
social functions have been
larger and better than
any before held here.
These special functions is

clude a real Italian spaghetti supper held in the adjoining city of Tonitown. We have had, since school started, seven banquets, and a formal dance is to be held with the local chapter of Alpha Kappa Psi in the next few weeks.

However, our social functions have not been our only successes. Upsilon each year awards the most outstanding graduating engineer by placing this engineer's name on our honorary plaque. We also furnish guides in conjunction with Tau Beta Fi for the guests who visit the school during Engineers' Day.

who wist the school during Engineers' Day, Upsilon's outstanding men include: Ladd Davies, Tau Beta Pi, president of the General Engineering Society, and Blue Key; Rolf Eldridge, Tau Beta Pi, president of A. I. E.; George Sansbury, Tau Beta Pi; Bill Stelzner, president of A. S. M. E.

The newly elected officers for the coming year are as follows: Holmiz Davidson, President; Larry Kelly, Vice-President; Bill Stelzner, Secretary and Corresponding Secretary; Robert Neinstedt, Treasurer.

There are at the present time nine active members and four pledges. These pledges will be initiated within the next few weeks. W. B. STELZNER, JR.

Phi Buries the Paddle



Well, Brothers, here we are well into the second semester with fifteen members and five pledges, still trying to keep our heads above water—we were not affected by the floods, either. Recently we held our

election of officers and for the coming period they are as follows: H. G. Steech, Regent; Jack Vanderford, Vice-Regent; W. K. Milne, Scribe; N. B. Batsha, Treasurer; H. J. Barth, House Manager; P. A. Mankin, Steward; and G. B. Roberts, Social Chairman.

Brother Barsha was quite active on Figgy Lambert's Boilermaker squad this season, having played in several games. Incidentally, Barsha is only a sophomore this year and has already earned his letter, so that we expect to hear more of him next year. Brother Coera organized and one of him next year. Brother years are not on the Military Department. Brother Vanderfraft, a member of Pardue Order of Military Merit, has recently been pledged to Scabbard and Blade. As soon as track season rolls around again, we're expecting big things of Pledge Gardner.

We have recently purchased a new rug, lighting room suite, and several lamps of the indirect lighting type. The light green rug and red leather furniture make a combination which we would be proud to present to any of you Brothers.

On March 25, 1937, we are to initiate into honorary membership Mr. Ralph Teetor, the



Phi's Christmas party for the poor kids of its neighborhood

President of the Society of Automotive Engineers for 1936. Mr. Tector has attained national recognition as an automotive engineer and has been Chief Engineer of Perfect Circle Piston Ring Company for some time. He holds an honorary Master's Degree in Mechanical Engineering from the University of Pennsylvania and is quite active in numerous distinctive clubs throughout the country. Naturally we are proud to bring such an outstanding man as Mr. Teetor into the organization of Theta Tau.

Our pledges are now being disciplined by a new system of merits and demerits which has completely replaced the old practice of paddling. Demerits are removable by work assignments, and, like other fraternities on

this campus, we find this system a vast improvement over the old one. In co-operation with one of our campus

engineering publications, the Purdue Engineer, Phi is offering an award of two engineering handbooks for the best essay on an engineering subject submitted by a student. This we find to be an effective means of bringing the name of Theta Tau as an engineering frater-

nity before the public. Well, Brothers, if you ever come up to the banks of the Wabash, drop in (not the

Wabash but the house) and see us-we still

have a good cook. March 12, 1937

W. C. CORRIN

Chi Leads St. Pat's Celebration



L. Thornburg was very effective as toastmaster, regaling us with several of his famous jokes. The new initiates were welcomed into the fraternity by William Crozer, Regent, and the response was given by initiate Bill Gohring, Principal speaker of the evening was Professor E. D. Gardner. A skit by the new members, Percy Coe, Arthur Dixon, Bill Gohring, Edmond Marum, Stanley Moos, James McLean, Harry Buehman, and Doyle Houghton, furnished ample entertainment of the lighter vein.

At the beginning of the second semester the following officers were elected and installed: Regent, Samuel Tucker; Vice-Regent,



Front row: Prof. Borquist, McLean, Raymond, Conroy, Berra, Pearson, Marum Second row: Rittenhouse, Pierce, Young, Tucker, Cushing, Spires, Ferguson Third row: Gohring, Sohrn, Crozer, Hiller, Draeger

Edward Young; Scribe, Harold Spires; Treasurer, Elliot Cushing: and Corresponding Secretary, Alton Cannon.

Professors Jimerson and Borgquist, mainstays of Chi Chapter, entertained the members with another of their annual stag bridge parties, held this year at the home of Brother Imerson on the evening of February 12. A fountain pen furnished by the Alumni Association was awarded to Sammy Tucker for high score, while Ed Young came through for the low score prize.

Theta Tau at Arizona is again lending full support to the annual St. Pat's Day celebration with Sammy Tucker acting as general chairman for activities which include a pienic and dance. Preceding the picnic elaborate ceremonies will be held in the patio of the Mines Building when all new engineering students will kiss the Blarney Stone and receive well-administered reminders of the occasion. Brother John (Fat) Anderson as St. Patrick will award certificates of the Order of St. Patrick to graduating seniors. With entertainment in such able hands the day is assured of success,

An open meeting for prospective members is planned for an early date. From the men

entertained there will be selected the ones best fitted to replace our actives who will be lost by graduation. A committee composed of Professor Jimer-

son, John McNary, and Harry Buehman has been authorized to look for a lot appropriate for the building of a chapter house. Rapidly have made it urgent that early action be taken for the sake of economy.

Of our 32 actives many have been making names for themselves in campus activities. Membership in Tau Beta Fi includes John Draeger, James Michaelson, Tom Hall, John Hiller, Arthur Pearson, Arthur Dixon, and Howard Fink, while Alton Cannon and Harold Spires have just recently been elected to this organization. John Rittenhouse and Arthur Pearson belong to Delta Pi Sigma, mathematics honorary; Scabbard and Blade men are Clyde Houston, Tom Conroy, Charles La-mothe, Edward Young, and Arthur Dixon. Tom Conroy and John Anderson belong to Bobcats, senior men's honorary, and Conroy is also Vice-President of the Student Body. ALTON H. CANNON

Gambling Instinct Overpowers Psi Psi Chapter is able to look back with satisfac-



tion upon its year's accomplishments and its material gain in both scholarship and membership.

First on the list of scholastic standing of the various campus organizations was Psi. We therefore are very proud of the intellectual ability of the organization.

Sixteen members have been added to the chapter roll. Among these new members was George "Pitch" Davison who was a member of the original local fraternity, Alpha Theta. "Pitch" was the chairman of the petitioning committee when Alpha Theta sought entry into Theta Tau. He was unfortunate in having to leave a few months before the charter was granted. Davison has spent three years in South America with the South American Development Company. Others initiated were: Sam Mitchell, Cal Hyyppa, Max Rudin, Fred Pope, Tom Greene, Bob Blake, John Prater, Kent Loughren, and George Hansen.

On December 16th Psi spent the evening



Present condition of Psi seniors in riotous fun-Monte Carlo Night. The

lower floor of the chapter house was attractively furnished and decorated in a manner simulating the gambling dens of Monte Carlo. An important project of the chapter this year is the conversion of an unoccupied room into a chapter room. The task, under the guidance of "Scoop" Schlechten, consists of completely remodeling and furnishing the room in a style befitting the solemnity of a chapter room.

Recently the personnel director of the Ingersoll Rand Company held interviews with members of the senior class. Of the five selected, three were members of Psi, Congratulations Parken, Lawson, and Tarrant. Tentative plans for the annual dinner-dance

are being discussed. This yearly celebration is in honor of the founding of the chapter. Psi Chapter will suffer a loss of twelve of her active members in the graduating class, They are: Elton Youngberg, Albert Rambosek, Dave Piper, Tom Linn, Seward Prater, Bernard Tarrant, Robert Lawson, George Davison, Albert Schlechten, Ray Murphy, Roy Smith and Walter Parken.

The officers at the present time are: Regent, Lawson; Vice-Regent, Schlechten; Scribe, Piper; Treasurer, Tarrant; Corresponding Secretary, Frater; Inner Guard, Gallagher; and fraternity through an interesting and active fraternal year. The election of officers will be held in the latter part of April at which time they will start the new year.

March 10, 1937

Omega: 22 Actives, 34 Pledges [Help, Help!?]

RAPID CITY

Comfortably esconsed in its new chapter house, Omega looks back upon a year of progress, and anticipates another successful year under the leadership of its new officers elected and instailed March 4. The new officers are: Harold Buus, Regent; David L. Davies, Vice-Regent;

Bob Davis, Corresponding Secretary; and John Trantina, House Manager. Professor J. O. Kammerman, who is a charter member of Omega Chapter and has been one of its most active supporters since its establishment, was elected faculty adviser for the coming year. Omega lost five actives at the end of the first semester with the graduation of Brothers Bork and Brandvold and the departure of Brothers Rosenow, Dorwin, and Skog, but



Omega's new quarters



Front row: Martin (Inst.), Bump (Inst.), Prof. Dake, Prof. Kammerman, Prof. Rowe, Holleman (Inst.)

Second row: Harding, Lindley, Cliff, Versaw, Bruggeman, Cole, Davis

Third row: Donaldson, Bohac, Smith, Skog, Crawford, Whitham, Kunze, Burleson Fourth row: Heald, Allen, Bingham, Stanley, Serbousek, Krikac, Davies, Foster, Trantina
Fifth row: Quinney, V. Atwater, Gilbrough, R. Atwater, Davis (partially covered),

Mazourek, Ferguson, Gremmels

Sixth row: Buts, Lee, Houghton, Schuknecht, Fenner, Cummings, Woodle, Davis, Cleland, Lind, Dickey, Scott, Carey, Dennis
Back row: Soc, Flint, Howet

gained two with the return of Brothers Atwater and Bruggerman. The active list now numbers twenty-two and plans are complete for the initiation of six pledges on March 2s. Omega will also celebrate its fifth anniversary at a banquet for the new initiates on the same date.

when we thirty-four pledges, including the six who will be inducted at the spring initiation. Throughout the fall and winter groups of two and three promising young men were invited up to the house for suppreductively of the active have greed that these individual value provides the six provides the supervised trainers with a green and the six provides the six provides the six provides the set opportunity for the active has greed that these individual value provides green gre

A banquet, held in the house Sunday evening, January 31, climaxed the first semester response of the seminary of the seminary of the Theer Taus did vestigather general present. Brother Jim Land "mastered the ceremonie" and Brothers Kammerman and Martin of the faculty spoke on the "Obligations Accraing to Pledgehalp in a Fraterning" and "The History of Omega Chaptee" respectively. A week later, on February 8, we peleded teemtythree men, which, with the nine previously pledged, gives us a total of thirty-four. Omega's biggest undertaking of the year

Owaga's bigget undertaking of the year was the more to mee quarters, which was accomplished during last Thankspring recent accountries the control of the co

their satisfaction with the most.

"Ongs continues to rail, by it is all the
"Ongs to continues to rail, by S. M. After
Brother Capt. Held, F. Davis, Allen, and
Brother Capt. Held, F. Davis, Allen, and
Brother Capt. Held, F. Davis, Allen, and
Harding
had turned in their helmsts and molekins
tat fall, Borders Capt. Baus and Whithers
and Pileges Andrews, Franke, Konze, Schukpartie, the Allen State Capt.

Brother Capt. Brother Capt.

Court. The first string baskethall team was
composed almost entirely of Thus Taus.

Brother Versaw and Pledges Harding, Smith, and Cole are members of the boxing squad now in Sioux Falls for the first state intercollegiate boxing tournament. Pledge Scott has been Athletic Manager all year. The house is also well on its way to another in tramural cup with over forty points more than its nearest competitor at present.

Omega is very proud of the scholastic record which it established for the first semester. With a grade point average of 1.58, we stood in the class with the Chem. C.E., and E.E. Societies. Brother Davies received the Sigma Tau medal last fall for the highest scholastic average in 1935-36 freshman class. Pledges Smith and Donaldson have been elected president and secretary, respectively, of Tau of

Sigma Tau for 1937-38.

Plans are now being formulated for the annual spring dance to be held in the ballroom of the Alex Johnson Hotel on April 24.

March 13, 1937

March 13, 1

Second Birthday Thoroughly Celebrated at Gamma Beta

WASHINGTON:
that I assume the duties of corresponding secretary so ably taken care of previously by Brother Baker.
Gamma Beta is continuing its busy way.

tinuing its busy way, aiming for bigger and better activities and social diversions. An inspiration to all of us has been the leadership of our Regent, Brother Ed Thomas, and Vice-Regent, Brother John Parsons. These men

are Thera Taus in all respects.
At present, Gamma Betz las twenty-six actives and three pledges. On December 12th,
Brothers Kenneth Sommer, Maswell Christopher, Frantz Rarey, Karl Vartia, and John
Kress were initiated into active membership,
The ceremonies were held at the Cosmon Club
The ceremonies were held at the Cosmon Club
active the state of the present of the cosmon club
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Rhine as treasurer and Brother Matson to succeed Brother Baker as corresponding secretary.

Brother Ed Thomas is also vice-president of Sigma Tau, of which ten Gamma Betas are members. We are also well represented on the Engineers' Council. Brother George Rhine is president and is one of seven of us on that body.

George Washington's Sixth Annual Engineer's Ball was held on February 12th. George Rhine led the grand march with General Max C. Tyler, Assistant Chief of U. S. Army Engineers, and two of George Washington's most beautiful coeds. Brother Rhine can certainly "strut his stuff."

Last fall as many as ten or twelve of us nobly arose early on Sunday mornings for a 2-3 hour game of touch football. We played a very gentlemanly but exerting game, suffering only one cracked rib, and when the first snow fell we had become fairly proficient, stone for the same fall we had become fairly profice into ging nothing about, spring practice.

On Saturday, March 13, our alumni chapter, under the extremely able direction of Brother Thee, joined with us in a very enjoyable celebration of the second anniversary of our installation as a national chapter. We were honored and delighted by the presence of Brother Fred Coffman, Past Grand Regent, who last visited us on the occasion of our



Front row: Brothers Bob Evans, Vice-Regent John Parsons, Regent Ed Thomas, Treasurer George Rhine, Fred Fishtz Middle row, (Manding): Brothers Meckuazewski, Ken Sommers, Ed Trittle, Franz

Rarey, John Risse, Harry Connor, Ira Jones, Prof. Hitchcock

Back row: Brothers J. Harold Link, Prof. Norman B. Ames, Walter Rhine, Ed Baker,

Jack Beane, Ray Matson, T. Ritchie Edmonston and Bernard Benson

installation. We gave Brother Coffman the engineering problem of cutting our second anniversary cake into thirty-seven parts and he acquitted himself nobly. He attended this celebration at great personal inconvenience, coming all the way from North Carolina for

the purpose, and all of us feel deeply and personally honored. Our guest speaker was Dr. Allan Stockdale, a man nationally known and liked by all for his real messages.

RAYMOND N. MATSON March 14, 1937

Twin City Alumni Association is Active

The Twin City Alumni Association herewith submits a report of its activities and the wheresbouts of some of its men. This year's officers are as follows: Robert Ramedell, President; Hugo Erickson, Vice-President; Charles Britzius, Secretary-Treasurer; Wesley Johnson,

We had our last meeting February 16 at the University of Minnesota Union. Our next meeting is March 15. We are having a joint

meeting with the Minneapolis Engineers' Club, many members of which are Theta Tau men. The meeting consists of an inspection of the Minneapolis Honeywell Heat Regulator Company and a supper in the cafeteria of the building. We plan meetings in April and May.

C. W. BRITZIUS

National Capitol Alumni Club Organized

Belated greetings from the National Capitol Alumni Club!

For some time prior to the installation of Gamma Beta Chapter here in Washington two years ago, the alumni of Theta Tau located in this vicinity have been working together as a group. Our first task was to assist in planning for and establishing a strong active chapter at George Washington University. The installation accomplished, we from other chapters joined with the Gamma Beta alumni to create an Alumni Club. We now have a record of 54 alumni here in Washington, which number includes 32 alumni from Gamma Beta Chapter. The following ten chapters are represented: Alpha, Beta, Delta, Epsilon, Zeta, Theta, Iota, Pi, Rho, and Gamma Bera.

Last evening we alumni joined with the local active chapter in celebration of its second anniversary. The celebration was in the nature of a banquet held at a local downtown club. Principal arrangements were made by Brother Thee, president of our Alumni Club. We were particularly honored by the presence of Brother Fred Coffman, Past Grand Regent of the Fraternity. The meeting was attended by 48 men: Brother Coffman, 20 actives, 23 alumni, 2 pledges and 2 guests. The latter group included John R. Lapham, Dean of the Engineering College, George Washington University, and Dr. Allen A. Stockdale, guest speaker. Prof. Norman B. Ames, Honorary Gamma Beta active, ably assumed the duties of toastmaster. In addition to a very helpful and well received address by Dr. Stockdale, who discussed the subject of engineering some of the more intangible problems of life, the program included songs, presentation of Pledges L. W. Froyd and G. M. Lohnes, and some remarks by Dean Lapham, Brother Coffman, and others. Regent E. J. Thomas and Past Regent J. H. Link spoke for Gamma Beta; Brother T. C. Thee, Zeta '27 for the Alumni Club. Brother J. E. Blann, '31, brought greetings from Pi Chapter, and the writer offered Alpha's best wishes. Brothers F. M. Hoffheins, K. L. Sherman, and P. L. Moats, all past presidents of Phi Theta Xi, from which sprang Gamma Beta Chapter, connected the past with the present. All in all, it was a "bang-up" get-together.

in step with Gamma Beta Chapter. We meet every other month, except through the summer, and hope every new arrival in Washington or others not yet contacted will get in touch with us. Brother Thee and myself are listed in the local telephone directory, and Brother Hoffheins, Secretary-Treasurer of the Club, can be reached by calling "Cleveland 1830." Brothers N. B. Ames, J. E. Blann, and W. J. Ellenberger, Gamma Beta, '33, are additional members of the Executive Committee of the Club.

RUX S. ANDERSON

Central Alumni Association Well Organized

The Central Alumni Association has for its aim the organization of all Theta Tau alumni in and near Ohio. Appointed representatives of this association in the major cities are as follows:

George H. Eagle, 1367 Meadow Rd., Columbus, Ohio

Wm. A. Meiter, 3214 Berkshire Rd., Cleveland Heights, Ohio
Fred W. Gilchrist, 4561 Willys Parkway,

Toledo, Ohio Arden R. Hacker, 375 Sumatra Ave., Akron,

Ohio Elmer F. Stansberry, 2824 Whittier Ave., Dayton, Ohio

George K. Dumbauld, E. Liberty Y. M. C. A., Pittsburg, Ohio Russell E. Knox, 4818 Calvert St., Cincinnati, Ohio

Ohio Charles L. Lucal, 824 Shorb Ave., N. W., Canton, Ohio

It is the duty of these brothers to foster the interests of all H & T men in their respective cities. They have been furnished the names and addresses of the alumni of whom we have a record. These names are principally men from Signan Chapter, but we wish alumni of other chapters would get in touch alumni of other chapters would get in touch any of the above cities. If elsewhere in Ohis or vicinity please send your name and address to the secretary.

Naturally the Columbus Group, due to the

large number of Theta Tau men and the presence of Sigma Chapter, is the most active group. Luncheon meetings are held on the second Tuesday of each month, 12:00 noon, at the Nookery Restaurant, 24 North High Street. We are always anxious to have new brothers drop in for these luncheon;

The last bi-annual meeting was held at Signa Chapter House on Olini State Homeocoming Day, November 21, 1936. The meeting was well attended and so much interest was shown that it was necessary to cut into the dance time in order to complete our busi-

ness session. The dance held at the Seneca Hotel was a big success.

The officers elected were: Emmett E. Knorr, Sigma '27, president; Charles R. Ross, Sigma '23, executive member, (each for one-year terms) and George H. Eagle, secretary-treasurer (for two-year term).

The next meeting is scheduled for some time in May on the date (yet to be chosen) of Sigma Chapter's Annual Dinner-Dance. The

of Sigma Chapter's Annual Dinner-Dance. The Alumni support of this dance is especially urged.

Again let me state that we are especially anxious to have men of other chapters affiliate with us, and would appreciate word from anyone as to the names and addresses of any

alumni in our environs.

EMMETT E. KNORR

March 20, 1937

Chicago Alumni Association

The newly elected officers of the Chicago Alumni Association are: G. L. Jackson, Phi '26, President; Dick Van Gorp, Omicron '26, Vice President; and J. B. Finch, Alpha '30, Secretary.

The Association's Board of Directors consists of P. B. Marner, Omicron '24; H. R. Hilkey, Zeta '27; and D. B. Frisbee, Delta '12. A meeting was held January 26, and an-

other on March 30 at which time Captain H. E. Coe, Alpha '19, of the United States Engineering Corps, spoke. A report on the Regional Meeting was given by Grand Regent Hopkins. The Association plans to hold another meeting in May.

Up to date the mailing list numbers ninety names, and there are forty-five men active in the group.

Alumni News

ALPHA

LYNDON L. FOLEY, '18, for many years with the Mid-Kansas Oil & Gas Co. announces the opening of offices for general practice as a petroleum engineer and geologist at 2400 National Bank of Tulsa Building, Tulsa, Oklahoma.

HARRY C. ELLIOTT, '19, is Designing Engineer for the Bell Telephone Labs., 463 West Street, New York City.

WILLIS J. McLEAN, '26, sailed for the Philippines on January 12th to join the staff of Development, Inc., Box 3230, Manila, P. I. Roy Grover, '31, was married last November. He is with Northern State Power Company

in Minneapolis.
ROBERT RAMSDELL, '31, is with Barnett and

Record Co. contractors of St. Paul, Minn. WARREN Fox, ex '33, recently left the state of single blessedness. He is manager of the radio service department of Mac Gowan's in St. Paul, Minn.

KENNETH C. SHAW, '35, has moved from Fort William, Ontario, and is now on the staff of the Dorval-Siscoe Gold Mines, Ltd., at Siscoe, Ouebec, Canada. L. P. Schmitt, '33, is operating an electric store in Ortonville, Minn.

KENNETH R. JOHNSON, '34, has left Nevada and is now with the Oliver Iron Mining Co., Ishpeming, Michigan. His address is The Anderson Hotel.

M. F. GREGG, '34, has succumbed to Dan Cupid and gone and got himself hitched. M. F. works for the Minnesota Highway Department in Minnespolis.

FRED BOMBACII, '36, recently assumed the ball and chain. He is with the Minnesota

Highway Department.

Lee Paul, '36, earns his keep with the Minnesota Highway Department in Minneapolis.

BILL SCIPPLL, '36, is also with the Minnesota Highway Department, but he is in Detroit Lakes, Minnesota.

The following men are working on the west coast in airplane factories: Graham Mc-Vickers, '36; Oscar Wehmenen, '35; Gene Holston, '35; Bill Swift, '34; Roy Lerrard, '36.

BETA

George A. Morrison, '04, after having spent ten years as superintendent of mines for the West Fenn Cement Co., has become general manager of the Orogrande-Frisco Gold Mines, Inc. at Orogrande, Idaho. CHARLES A. KUMKE, '06, mine superintendent

CHARLES A. KUNKE, "06, mine superintendent of the Golden Queen Mine, Mohave, California, has published Technical Publication 775, Mining Technology, January, 1937, entitled "The Slet System of Mining at the Golden Queen Mine, Mohave, California,"

FRED W. VARNEY, '08, is now superintendent of construction for the Engineering Equipment & Supply Co., 13th and Atlanta Streets, Port Area, Manila, P. I.

CITABLES G. THELLEKE, '12, accompanied by his family, has been enjoying a four month wacation in the states, a part of which he devoted to a visit to various Canadian deld mines. He is assistant general manager of the Lake View & Stat. Ltd., at Fimiston, Western Australia, and will return to his job on March 30th.

C. E. CHAFFIN, '13, wrote the Grand Scribe from Cairo, Egypt, en route home from the

Philippine Islands, as follows-"Fletcher Wood (Gamma '15) was with the East Mindanao Co. most of the time I was there. He left and went over to Occidental Negros on a prospecting trip in November. Fred Varney (Beta '08) installed the mill machinery for us and is now opening a property a few miles from us. There was no particular metallurgical problem at East Mindanao-the main difficulty was in handling the wet, sticky ore, much of it talc and plenty of colloidal slimes. The most difficult phase of the work was the native labor and it was some job to break them in as mill operators. I could have remained in the islands and had several other jobs offered me in Manila, but finally decided to return to the states. I do not know how long I will spend in Europe; it depends on the weather.' HN G. EDWARDS, '13, is manager of the

Enstern Exploration Co., Goldfield, Nevada.

Joseph David, '15, is now mine superintendent at the Allied Annie Laurie Gold Mines,

Spring Utah.

Sevier, Utah.

OMER F. GUERIN, '24, is the owner and operator of a placer mine at Yreka, California.

JAMES BROPHY, '31, is in the flotation de-

partment of the Anaconda Copper Mining Co. in Anaconda, Montana. BILL BAYES, '34, has gone to South America to work for the Cetro de Pasco Mining Company.

GAMMA

WILLIAM A. WASLEY, '09, for many years manager of the El Tigre mine in Sonora, Mexico, has gone to The Fresnillo Co., Fresnillo, Zacatecas, Mexico.

CHARLES M. GLASGOW, '10, has been appointed general superintendent of the Smuggler-Union Mine at Telluride, Colorado.

WALTER R. BROWN, '10, is with the Weepah Nevada Mining Co., P. O. Box KK, Tonopah, Nevada. KENNETH H. MATHESON, '11, has been given

the job of general manager of the New York & Honduras Roasrio Mining Co. at San Juancito, Honduras, C. A. ROBERT HIGGINS, '17, agent for The Texas

Company in Dodge City, Kansas, has moved his home to 1507 Central Ave.

T. H. Andrews, '17, earns his dough as an engineer for the Stanolind Oil & Gas Company, Gulf Building, Houston, Texas.

THOMAS H. ALLAN, '18, is now located at 707 Bitting Building, Wichita, Kansas, as geologist for the Twin Drilling Co. R. S. COULTER, '19, is combustion engineer

R. S. COULTER, 19, is composition engineer for the Bethlehem Steel Co., on the Pacific Coast, in South San Francisco. His mailing address is 1365 Columbus Ave., Burlingame, California.

RUSSELL J. PARKER, '19, has been elected a Director of Roan Antelone Copper Mines

Ltd., and of the Rhodesian Selection Trust. It was on his reports that the Roan Antelope and the Mufulira properties were drilled. They are now among the large copper mines of the world.

Copper mines of the world.

VICTOR J. LYNCH, '20, works with A. D. Alvir, Box 489, Manila, P. I.

DONALD L. BAILEY, '21, is now living at 1602 West Adams Blvd., Los Angeles, California. IOHN ROBERTSON, '22, has moved to Palm

Springs, California. His permanent address is 6215 Del Valle Drive, Carthay Circle, Los Angeles, California. REX J. ALLAN, '22, is Assistant Highway En-

gineer for the California Division of Highways, Materials & Research Dept., and lives at 3435 Serra Way, Sacramento, California. Donald C. Greege, '22, left on the China

Clipper, February 10th, for the Philippines to become Mine Superintendent for the Union Management of Manila.

BENN L. RAHF, '22, is now metallurgist and assistant superintendent of the Selby Smelt-

ing Works of the A. S. & R. Co., Selby, California.

DOMINGO MORENO, '22, has been made reduction superintendent of the Chile Exploration Co., Chuquicamata, Chile.

CLARENCE W. GUTH, '22, is now in charge of the insulating department of the Westinghouse Electric & Mfg. Co. at East Pittsburgh, Pa. He will direct the work of 125

L. C. RHODES, '22, is a member of the firm of Ritchie & Rhodes, Ltd., 633 Howe Street,

Vancouver, B. C., Canada. EUGENE R. AARON, '22, didn't like his name, so he changed it to Eugene R. Murray-

Aaron. He is petroleum engineer for the Division of Oil & Gas, State of California, with an address of 629 South Hill Street, Los Angeles, California. RONALD F. CRAWFORD, '23, is assistant super-

intendent of the Construction of Parks, Borough of Queens, N. Y. C., living at 9742 63rd Road, Forest Hills, N. Y. W. M. Gebo, '23, is with Ingersoll-Rand Co.

with an address of 1632 South Victor Street, Tulsa, Oklahoma. CHARLES F. JORDAN, '23, is general superintendent of the American Smelting & Refin-

ing Co., Santa Barbara, Chih. Mexico.
D. C. Frobes, '24, has risen to Vice-President
of Hersey & Co., Dooly Building, Salt Lake

City, Utah.

Frank E. Delahunty, '25, is now with the
Baguio Gold Mining Co. at Baguio, Philippine Islands.

E. V. H. BAUSERMAN, '25, is in the office of the Bureau of Internal Revenue, Washington, D. C. as valuation engineer, Oil &

ton, D. C. as valuation engineer, Oil & Gas Division.

PAUL D. BLISS, '26, is in the mechanical engineering department of the Lake Shore

Mines, Ltd., Kirkland Lake, Ontario, Canada. T. F. Adams, '29, has become mining engineer for K. L. Marrison in Iloilo, Philippine Islands.

KENNETH BOWIE, '30, is in the Production Department of the Shell Oil Company.

Houston, Texas, as an exploitation engineer.

C. E. Oshoon, '33, is now in charge of the exploration work for the Santa Cecelia Mining Co., Inc. with headquarters at 456 Dasmarinas Street, Manila, P. I.

NEIL O. JOHNSON, '33, formerly with the Hog Mt. Mining Co. in Alabama, is now with The Dorr Co. at its experimental mill in Westport, Conn. JAMES COLASANTI, '35, is metallographer for the C. F. & I. Corp., Pueblo, Colorado.

the C. F. & I. Corp., Pueblo, Colorado. W. KINNETH DAGGETT, '35, seismograph scout for Shell Petroleum Corp., is located at Ardmore, Oklahoma.

JOSEPH B. KENNEDY, JR., '35, is geologist for the Sinclair Prairie Oil Co., 30 Rockefeller Plaza, New York City.

RICHARD D. MOODY, '36, works with the Riverside Cement Co., and lives at 2379 West 23rd St., Los Angeles, California.

EPSILON

GLORGE D. SMITH, '11, writes that he has just completed the reorganization of the l'airmont Hotel bond issue and expects the bond issue and expects the bond issue for the Mark Hopkins Hotel, which he built, to shortly be reorganized, according to Smith. His business address is Hotel Mark Hopkins, San Francisco, Cali-

EDWARD. WISSER, '17, has resigned as chief geologist of the Cia. Real del Monte y Pachuca in Mexico and has gone to the Philippines where his address is care of the Calambre Sugar Estate, Manila, P. I. He traveled by air and reports he had a most interesting trip but hardly a thrilling one on account of the superb efficiency of the

GFORGE L. KLINGAMAN, '21, geologist of The California Co., has been transferred from Midland, Texas. to the company's office in the Smith-Young Tower, San Antonio,

Texas.

A. M. Tweept, '28, has been appointed manager of the Allied Annie Laurie Gold Mines,

Sevier, Utah.

DONALD ERIC KOCH, '29, took the fatal step
with Miss Barbara Cushing of Oakland,

California, on February 27, 1937. Their address is the Annie Laurie Mine, Sevier, Urah

Utan.
H. D. Erwin, '31, has completed a report on the Diamond Mt. Mining District, Lassen County, California, for the California Division of Mines. His address is 2839 Guirado Street, Los Angeles, Calif.

ARTHUR WERNER, JR., '34, is now at Wheatland, California, in charge of a gold mining operation.

operation.

J. J. STRUTZEL, '34, is now engineer for the Cactus Mines Co. at Mohave, California.

JOHN DOMERCO, Jr., '34, sailed from New York in January to become petroleum engineer for the Bahrein Petroleum Co. Ltd.

on Bahrein Island, Persian Gulf.

J. A. Andregg, '36, is with the Fairbanks
Exploration Co., Fairbanks, Alaska.

HANGUD MYCHELL, '36, was married in Oak Park, Illinois, to Miss Elizabeth Summers of Seattle, Washington, February 26, 1937, and has gone to Annzu, Cali, Colombia, S. A., where he is geologist for an eastern of company. PAUL M. PRICE, '36, is now with Nevada

Paul M. Price, '36, is now with Nevada Consolidated Copper Co. at Ray, Arizona.

ZETA

- L. C. ANGUVINE, '13, is managing the Municipal Water and Electric Utilities at Mc-Pherson, Kansas. He has a son who is a Summerfield Scholar here and is enrolled in the college.
- C. E. PAINTER, '14, vice-president of Waterworks Equipment Company of Salt Lake City, Utah, also enjoys the distinction of being National Vice-President of American Association of Engineers.
- LAWRENCE E. COLE, '16, is assistant manager for U. S. Metals Refining Co., Carteret, N. I.
- R. L. TEMPLIN, '16, with the Aluminum Coof America, in New Kensington, Pennsylvania, recently received the Thomas Fitch Rowland Prire for the paper on "Model of Calderwood Arch Dam," which he presented at the A. S. C. E. convention in Pittsburgh.

- ii- H. E. Samson, '16, performs the duties of c- District Manager for the Southwestern a Public Service Co. at Roswell, N. M.
 - Public Service Co. at Roswell, N. M.
 D. S. Jamts, '16, works with Ben-Tom
 Supply in Columbus, Ohio. He has a son,
 Bill, in the Engineering College of Ohio
 - ELLWOOD G. WASHBURN, '16, works in the offices of the Columbian Steel Tank Co. in Kansas City, Mo.
 - KARL W. KAISER, '17, supervises Physical Education at Chaffey Union High School and Junior College in Ontario, California. 216 Harvard Place is his address.
 - T. C. Rein, '18, is still doing a swell job as Director of Athletics at the State Teachers College in Warrensburg, Missouri. He, also, is being seriously considered for the vacancy here at the university for Director of

Athletics. Zeta men have someone to pull for in that respect.

JOHN BUNN, '20, enjoyed a very successful season as head coach of basketball at Leland Stanford. He is now being prominently mentioned for the position of director of athletics here at the university.

HOMER M. EAGLES, '20, is employed in the Tax Department of the Standard Oil Co. of New Jersey, being Chief Engineer in that organization.

PAUL S. Fox, '20, is State Sanitary Engineer for the state of New Mexico. He receives his mail at Box 11 in Santa Fe.

HERBERT A. OLSON, '22, is staff engineer for the Michigan Municipal League.

GALE M. JANES, '22, is traveling about as assistant sales manager with the Milwaukee

Howard D. Patterson, '22, receives his mail and callers at the Construction Products Company, in the Finance Building, Kansas City, Missouri, dealers in all kinds of materials of construction.

R. M. RUYLEGE, '22, reports a future Theta Tan for the class of 1957. He, the elder Mr. Rutlege, is still holding down the office Engineer's job in the Phoenix, Arizona, office of the U. S. Bureau of Public Roads. ERLE S. MINER, '22, is engineering for Ameri-

can Telephone and Telegraph Company in New York City. He receives his mail at 53 Whitney Road, Short Hills, N. J.

The Waters Code, 300 cm. 22, whose ampears on the editoral, 23, whose amappears on the editoral code is the same flowman who played a mighty game of basketall for Kanas in the early twenties, studying engineering and making a valuable member of Zeta Chapter as he went. He has been with that publication almost ten years now.

With that publication almost ten years now.
P. D. Connettius, '23, manages the Pumphed
Division of Sullivan Machinery Co., Tulsa,
Oklahoma, with an address of 321 Wright

Bldg.

J. LLOYD BARROW, '23, is Director of the Division of Sanitation, Westchester County Department of Health. His address is 20 N. Broadway, White Plains, N. Y.

G. L. HAWLEY, '23, is toll engineer for Southwestern Bell Telephone Co., and is making his home at 715 Park Lane, Topeka, Kansas.

WILLIAM S. McLEOD, '24, is sales engineer in the Indiana district for the Worthington

Pump and Machinery Co. George R. Benz, '25, lives at 17370 Griggs

Ave., Detroit, Michigan. George is assistant to the manager of Philgas Department. Phillips Petroleum Co. RALPH W. NICHOLS, '21, has for several years

been in the employ of the American Tank and Equipment Co., which manufactures oil field equipment. At present he is located in Dallas, Texas. KARL H. ENGLUND, '26, has returned to his

old love, the engineering department of the Kansas City Southern Railway, in the general offices of the road at Kansas City, Mo.

C. A. POPPINA, '26, is another of Zeta's many men employed by General Electric. He is doing sales and engineering work in Minneapolis, Minn.

Struat G. Hazana, '28, left the oil fields of Teass in 1929 to enter the employ of E. A. Finney, a consulting engineer located at Topeka, Kunss. He is now a partner of Mr. Finney, and the plans of the Kansas Avenue Bridge, over the Kaw River at Topeka, bear the tule 'Finney and Hazard, Consulting Ligineers,' "See" is a man is making good in his chosen profession in a big way.

V. O. SMELTZER, '28, is keeping trains from smashing together by being Chief Draftsman of the Signal Engineer System of the Santa Fe in Topeka, Kansas.

Santa Fe in Topeka, Kansas.

Donald C. Little, '29, 1st Lt. F. A. is now at the U. S. Military Academy, West Point, New York.

B. RAYMOND MCCRARY, '28, finds use for his architectural training in the employ of the Federal Housing Administration at Wichita,

DONALD BONJOUR, '31, is Assistant Engineer in the U. S. Engineer Office, St. Joseph, Mo. MAURICE BAUZELLUS, '31, is employed by the Columbian Steel Tank Co. of Kansas City, Mo., in its design department.

ROBLEX W. KLIK, '31, is experimenting for

the U. S. Public Health Service or the stream pollution investigation station in Cincinnati, Ohio. He and Brother Hands should be getting together. GAROLD KANE, '31, is one of General Electric's

Department. He hangs his hat at 304
Root Ave., Scotia, N. Y.

RUSSELL HANSON, '31, is sales engineer for Gardner-Denver Co. of Quincy, Illinois.

Robert F. Glori, '31, is employed by the Southwestern Bell Telephone Company in Kanssa City, working in their maintenance department. He made the journey down the aide with Mildred Casey in 1935 and they are now making their home at 3207 Broadway, Kansas City, Mo. LIRROY SHARR, '32, is in the mechanical en-

gineering division of Shell Petroleum Corporation in Topeka, Kansas. FLOYN GIDICSKY, '32, is on active duty as army officer in CCC No. 931, Fairbury,

Army officer in CCC No. 931, Fairbury, Nebraska. Dana Pratt, '33, is field engineer for RCA

Manufacturing Company, installing broad-

cast stations. He has a 20 meter amateur phone station, and also reports that 2235 Pennsylvania Ave., Topeka, Kansas,

2235 Pennsylvania Ave., Topeka, Kansas, is still O. K. for mail. HAROLD HOOVER, '35, is in the Research Department of Phillips Petroleum Co. He

lives at 922 Cherokee, Dewey, Oklahoma. GLENN E. HANDS, '34, has recently been employed by Burns and McDonald Engineering Company of Kansas City, and is now the inspector on Cincinnati's new water purification plant. His new address is 4300 Erie Avenue, Cincinnati, Ohio.

Erie Avenue, Cincinnati, Ohio. LLOYD CHRISTIANSON, '35, is passing out the

cigars for the recent addition to the family.

Power to you, "Christy" Junior!

KARL KINDSWATER, '35, having completed his

graduate study at Iowa, is now with T. V. A. at Norris, Tenn.

W. R. CARTER, '35, works for Union Pacific at Omaha, Nebraska. He gets his rest at 3046 Martin Ave.

R. D. McKiss, '35, reports that he has a new potential Theat Tau, Robert Dan II. Phastron Cout, '37, who has been a standby in athletic and political activities on the campus, graduated at the mid-year and is now employed by the Empire Oil and Gas Company in Treas.

ETA

EDWARD BARKY, '16, is general sales manager for the Riley Stoker Corp. in Worcester, Mass. His home is 4 Westwood Drive, Worcester, Mass. For the past nine years he has been supervisor of power for the West Virginia Pulp and Paper Co. and designed a number of power plants for them. DONALD WAY, '19, is with the Diehl Manufacturing Co., Elizabeth, N. J.

SPENCER W. BUTLER, '21, can now be addressed at 410 Hanna Building, Cleveland, Ohio.

Ohio.

EUGENE A. HARDIN, '21, has changed his address to Chateau Frontenac, 10410 East Jefferson Ave., Detroit, Michigan.

GEORGE O. CLIFFORD, '22, now lives at 615 Oxford Road, Bala-Cynwyd, Pa. He is assistant to the President of Fayette R. Plumb, Inc., Philadelphia.

MAURICE DAVIER, '27, has been transferred to the New York office of the Johns-Mauville Co. but he expects to keep his home in

Plainfield, New Jersey.

Jack BENNETT, '10, was married on October
17, 1936, to Miss Anne Gellatly of Akron,
Ohio, and they are now living at 816
South Genessee Street, Los Angeles, California.

THETA

JOHN FURNESS PARK, '17, is now at the Mahad Dahab mine of the Saudi Arabian Mining Syndicate Ltd., Jedda, Saudi Arabia. JOSEPH A. TRISKA, '27, is in Brussells, Belgium, living at 47 Avenue des Arts. A. W. Ackerman, '29, is with the Public Service Electric & Gas Co., and lives at 80 Park Place, Newark, New Jersey.

Park Place, Newark, New Jersey.

Don O. Norl., '29, is engineer for the Metals
Disintegrating Co. at Elizabeth, N. J., and
lives at Townley, Union, N. J.

IOTA

- B. E. CHARLES, '21, is with the Klondike Mining Co, Box 10, Chloride, Arizona. Herr Stork up and done it again. The proud parents are Mr. and Mrs. D. L. Mooner, '25, Young Thomas arrived on Friday, November 20th. The Mondies are at home at 3379 Morrison Ave, Cincinnati, Ohio. Howan Hustrp. '28, is draftsman for the Oliver United Filter Co. at San Leandro, California.
- N. J. GILSDORF, '35, formerly with the State Highway Department, has just completed an advanced course in Sanitary Engineering at Vanderbilt University. His permanent mail address is 2309 Benton St., St. Louis, Mo.
- Mo.
 W. L. DONNELLY, '37, recently accepted a position with the Aluminum Ore Company. He is located in East St. Louis.

LAMBDA

F. L. ALLEN, '12, writes that Brothers Elmer Butler and lack Reeve have joined him in his forest office. He promises to keep an eye on them. His address is 2819 Quincy Ave., Ogden, Utah.

Ross Bergh, '34, writes that he is now with the Steel-Engineers Company of Salt Lake City. His address is 179 Virginia St., Salt Lake City, Utah.

RAY BOWEN, '35, is Junior Engineer with the Nevada Cons. Copper Co., Ruth, Nevada.

MU

FRANCIS C. SMITH, '22, is superintendent of the Southeastern Froduction Company, Box 278, Chickasaw, Alabama.

EDWARD R. COULBOURN, '23, is at work with the Engineering Department of the Alabama Power Company in Birmingham, Alabama,

James R. Maxwell, '28, can be addressed at Box 717, Abilene, Texas. ROBERT TEAGUE, '35, former regent of Mu

Chapter, is working with the American Cast Iron Pipe Co. in Birmingham, AlaLEONARD E. LOSEY, '36, has a job with the Welch Fairchild Ltd., 321 Regina Building,

W. E. RYBURN, '35, is now employed in the Engineering Department of the Fabricating Plant of the Aluminum Co. of America.

KENNETH DANIEL, '36, former regent of Mu Chapter, is with the American Cast Iron Pipe Co. in Birmingham, Alabama.

XI

FREDERICK W. NOLTE, '22, is with the Wisconsin Valley Electric Co., Wausau, Wisconsin.

BOWMAN K. BREED, '24, is engineer for the Preferred Utilities Co., Inc., 33 West 60th Street, New York City.

ANDREW LEITH, '26, assistant professor of geology at the University of Wisconsin, has a year's leave of absence and has gone to

Manila, Philippine Islands to help organize a bureau of mines and geology for the government there. G. C. BREITENBACH, '26, works with The

Trane Co., 726 Investment Building, Washington, D. C. W. B. MURPHY, 28, is with the A. C. Nielson Co., 4450 Ravenswood Ave., Chicago,

OMICRON

PROF. A. H. HOLT, Honorary, has accepted a position as head of the Civil Engineering Dept. at Worcester Politechnic Institute. His resignation at Iowa is effective July 1,

1937. All Omicron men are sorry to see him leave the University. JOHN PERRY, ex '37, is now a salesman with the Wallace & Tiernan Co. in Chicago. III.

PI

W. P. KENNEDY, '35, after knocking about the country, has recently landed at Charles Town, Jefferson County, West Virginia.

SIGMA

HAROLD H. MACE, '27, gets his mail at 2805 Digby Ave., Cincinnati, Ohio,

PAUL E. CROUCH, '27, has the address of 1217 Whitney Ave., New Haven, Conn.

He is working for the Union Special Machine Co. C. E. GAGNIER, '33, is with the Rotary Elec-

tric Steel Co., Detroit, Michigan,

LESTER KNAPPE, '34, earns his keep in Cleveland, Ohio. WAYNE FISCHER, '34, recently assisted in

making a silt survey from Pittsburgh to Cairo, Illinois. Wayne is with the Soil Conservation Service.

Myron Jensen, '34, is working with the T. V. A.

IOE BOWEN, '34, recently visited the chapter house when he attended an engineer's convention in Columbus. Joe is located with

the CCC at Xenia, Ohio. ALBERT MORRISON, '35, is now married and living in Columbus, Ohio. Abe received his Masters Degree in Chemical Engineering last year.

IOE SULLIVAN, '36, writes that he will be present at the Sigma spring formal. Joe, Regent of Sigma in '36, is working for the Corning Glass Co., Corning, N. Y.

PETER LAMBROU, '36, works at Mt. Vernon, Ohio, with the Mt. Vernon Bridge Com-

WILBUR A. SCHAICH, '36, is now married and living in Schenectady, N. Y. JOHN BOYLAN, '36, is now located with the T. V. A. at Knoxville, Tenn.

JOHN SAALFIELD, '36, graduated last quarter and is now working with the Owen-Illinois Glass Co. at Newark, Ohio. Bud is a Tau Beta Pi man. Good luck on your new job, and best wishes.

CHARLES B. SMITH, '36, works with the Mr. Vernon Bridge Company in Mt. Vernon. Ohio. RUSSELL GLASS dropped in for lunch one day,

He is welcome at all times as he always brings in suggestions for improving our chapter.

TAU

ROBERT H. HUGHES, '25, is connected with the Foster Wheeler Corporation. Bob resides at 32 Claridge Court, Glen Ridge, N. J., and is unmarried. JOHN GROVE, '27, is connected with the New

York Telephone Co. He's married and has two little tots around the house. John's address is 130 W. Girard Boulevard. Kenmore, N. Y.

GORDON GARNHART, '27, is in the Department of Technical Development and Research of the Consolidated Edison Co. of N. Y. He's living at 2015 Dorchester Road, N. Y. C. Happily married but no blessed events.

WILSON SUTTON, '28, is with Fleetwings, Inc. Married and has one daughter. Wilson lives on N. Radeliffe Street, Priston, Penn, KENNETH F. CRAMER, '28, is with the Diesel

Engine Division of the American Locomotive Works. Ken gets his mail at 27 Grand View Ave., White Plains, N. Y. He is married and has two children. CARL ANDREWS, '28, lives at 28 Clinton Street,

Homer, N. Y. He's manager of the W. J. Stafford Coal Co., married and has one boy. Carl was recently elected president of the local Chamber of Commerce.

FRED S. GIBBS, '29, is employed by Wallace and Tiernan Co. He's married and has a daughter. His address is 82 Allen Avenue, Waban, Boston, Mass.

IOHNNY SHAPPEL, '30, is a special agent with the Home Insurance Co. He lives at 565 Rutter Ave., Kingston, Penn. John is married and has one child. However, as W. W. would say, the Shappels are blessed

FRANK R. HELLER, '31, is connected with the Federal Board of Engineers for Rivers and Harbors. He can be reached at 2848 Munitions Building, Washington, D. C.

C. ALLEN GILMORE, '32, is working for the Bausch and Lomb Optical Co., in Rochester, His address is 769 Flower City Park, Rochester, N. Y. Married but no children. BURT FOWLER, '32, is with the Standard Oil Co. He gets his mail at 546 Delaware Ave.,

Buffalo, N. Y. JAMES JERRY, '34, is a salesman in the southern United States for the Crouse Hinds Company at Syracuse, N. Y. He gets his

mail in care of the company. PARRY OWENS, '35, gets his mail at 49 Main St., Whitesboro, N. Y.

HAROLD E. CRAMPTON, '35, works for the One-Box Machine Company at Rockaway, New Jersey. Barbara Elizabeth calls him

JOHNNY CHURCH, '36, is working for Ingersoll Rand. He can be reached at 403 Centre Street, Phillipsburgh, N. I. John is married,

UPSILON

T. T. SPITZBERG, '28, is Traffic Supervisor of the N. Y. Telephone Co., 101 Willoughby Street, Brooklyn, N. Y. CECIL S. CAMP, '29, thirsts for higher learn-

ing. He is doing graduate work at the University of Iowa. Such ambition! ROBERT A. BOWMAN, '29, is engineer for the W. E. & M. Co., Lester, Pa.

CHI

JACOB ERICKSON, '31, is junior engineer with the U. S. Bureau of Public Roads at Phoenix. LEON MAGEE, '32, works with the U. S. Reclamation Service at Bartlett Dam north

GEORGE D. GARDNER, '32, has left Clarkdale, Arizona, for the Philippine Islands. His address there is c/o R. H. Nielson & Co., Manila, P. I.

GEORGE HOUSTON, '33, who holds a Fellowship in the Civil Engineering Department is now a proud papa.

JACK McNary, '34, married Elizabeth Hannah of Florence, Arizona, during the summer

of 1936. WILLIAM DINDINGER, '36, who is working with the Inspiration Copper Co. in Miami,

Arizona, became a delighted dad on June 16, 1936.

PSI

"Pip" Wilson, '31, has returned home from Cerro de Pasco, Peru. He is keeping everyone amused with his "tall" stories; you know, same old "Fid." No address-still wandering. DICK MATTHEWS, '32, recently received a well

deserved promotion to shift boss. Tough for some miners. Dick resides at 2205

Cottonwood St., Butte, Montana. JOHN McAULIFFE, '34, spent a week-end in Butte visiting his folks. He is excellently holding a position as a construction in-

spector at Harlem, Montana. MERRILL SPRUNGER, '35, has again submitted an excellent cartoon for the Spring issue of THE GEAR. (See chapter letter). His

last cartoon has created much favorable comment. At BLOOM, '35, renewed acquaintances in town last week. He still holds a position

at Chinook and is doing excellent work. It is possible to contact him, addressing Box 382, Chinook, Montana.

ROLLIEN WELLS, '36, now employed at the zinc plant in Anaconda, recently enjoyed a vacation in California. No, not married

as yet. FRANK TRASK, JR., '36, reports everything

perfect at Ohio State University, GLENN JOHNSTON, '36, left recently for Chili where he has a position with the Braden Copper Company as Junior Engi-

neer. He will make good we all know. MEL WILLIAMS, '36, is now working in Jarbidge, Nevada. Mel has traveled around a

lot since last June. RALPH SEIDEMAN, '36, is now a sampler in the Badger State. He reports it hot. He receives his mail at 318 W. Broadway, Butte.

OMEGA

J. O. KAMMERMAN, '07, is a Professor of Electrical Engineering at the South Dakota School of Mines, Rapid City, S. D. MERLE C. ROWE, '22, is Associate Professor

of English at the South Dakota School of

Mines in Rapid City. GEORGE L. ANDERSON, '24, has several posi-

tions. He is manager of the Federal Engineering and Machine Company, and General Superintendent and Vice-President of the New Eldorado Mines, Inc., Rapid City,

EARL D. DAKE, '24, is a Professor of Civil Engineering at the South Dakota School of Mines. His home is at 1118 Columbus St., Rapid City, S. D.

EUGENE MARTIN, '25, is an instructor in Metallurgy at the South Dakota School of Mines, his mail going to P. O. Box 1494, Rapid City, S. D.

JAMES D. BUMP, '29, is Museum Curator and Geology Instructor at the S. D. School of Mines in Rapid City.

MAX H. MONHEIM, '29, is Exchange Engineer, Northwestern Bell Telephone Co., Omaha, Nebraska, in the Telephone Building, Room

WILLIAM C. CAMPBELL, '30, is with the engineering department, Homestake Mining Co., Lead, S. D., hanging his hat and coat

at 511 West Summitt St., Lead. ROBERT M. HERNON, '30, is Geologist for the Engle-Picher Lead Company, Tombstone,

WAYNE L. FENNER, '30, geologist, R. C.

Borchert, Whitehall, Montana, gets his mail at Box 347, Whitehall. Kermit F. Fenner, '31, works as Chief Clerk

of Custer Division, Dakota Power Co. His mail is to be sent to Box 220, Custer, S. D. with the Homestake Mining Co., Lead, S. D., with his home at 413 Peak St., Lead.

FRED PADDOCK, '32, lives in Union, Oregon. Wonder what he does?

REX TARIO, '32, is an electrician, Homestake

Mining Co., Lead, S. D.
WAYNE W. HAGMANN, '32, works with the
Southern California Edison Co., Los Angeles, California, living at 1955 Atlantic
Avenue, Long Beach, California.

BURTON F. BEILER, '32, is instrumentman, S. D. Highway Commission, Kadoka, S. D. CARLETON B. HARRIS, '32, is with the G &

D Mining Company, Rochford, S. D.

Albert M. Young, '32, is Resident Engineer,
State Highway Commission, Pierre, S. D.

His home is at 216 Pleasant Drive in Pierre. CHARLES F. EVANS, '32, is in the Engineering Pepartment, Homestake Mining Co., Lead, S. D., living at 716 Ridge Road, Lead, S. D. DONALD A. RICKETTS, '32, is in the Testing Materials Laboratory, State Highway Com-

mission, Pierre, S. D.
DENNIS E. DAHLGARD, '32, is resident engineer for the S. D. Highway Commission,

Presho, S. D., but lives in Kennebec, S. D. OMAR ROSENOW, '32, works at the Bryant Bakery, Bryant, S. D.

EDWIN W. SAYLOR, '32, is Project Superintendent, U. S. D. A., Soil Conservation Service, living at 424 Fadua Avenue, Ravenua, Nebraska.

venna, Nebraska. CLARENCE H. HOLLEMAN, '32, is an instructor in Civil Engineering at the South Dakota School of Mines in Rapid City.

ALBERT W. HALL, '33, has a job with the Northwestern Engineering Co., Rapid City, S. D., living at 617 West St. in Rapid City, JOHN A. LAMPERT, '33, is Senior Aide, Resettlement Administration. His address is

settlement Administration. His address is 1019½ Fulton St., Rapid City, S. D. Donald E. Moulos, '33, is located at the Bald Mountain Mining Company as Engi-

reer. He lives in Trojan, S. D.

KENNETH E. SCHMELING, '33, is with the
South Dakota Highway Commission. He
lives at 521 5th 5c., S. E., Watertown, S. D.

FRANCIS A. ESTRUP, '33, is acting road en-

gineer, U. S. Department of Interior. His mail goes to Cheyenne Agency, S. D. Arichmand L. Slaughtter, '33, is engineer for the Bald Mountain Mining Co., Trojan,

S. D.
RICHARD D. MARQUARDT, '33, works at the
South Dakota State Cement Plant, Rapid
City, S. D.

RALPH RICHARD BASLER, '33, is with the South Dakota State Cement Plant, Rapid City, S. D., receiving his mail at Canyon Lake Drive, Rapid City.
GERALD A. MUNSON, '33, is Assistant Office Engineer for the W. P. A., Mitchell, S. D.

He is at home at 401 South Edmond St., Mitchell. CLIFFORD E. HIXON, '33, is Electrician, Home-

CLIFFORD E. HIXON, '33, is Electrician, Hon stake Mining Co., Lead, S. D.

HOMER W. NORTHRUP, '33, is taking the Crane Student Training Course, Crane Manufacturing Co., Chicago, Illinois. His address is 3232 Drexel Avenue, Chicago. NOEL A. GAGSTETTER, '34, is lineman, Northwestern Bell Telephone Co., with headquarters at 723 Telephone Bldg., Omaha, Nahnaka.

Nebraska.

Frank W. Woodman, '34, is in the Research
Department of the Anaconda Copper Mining Co., Anaconda, Montana. His home is

at 321 West 5th St., Anaconda.

BERNARD R. BUUS, '35, works as assistant in
Power Rectifier Test Department, General
Electric Company, Schenectady, N. Y.
Home address: Apt. 5, 33 North Ferry St.

Electric Company, Schenectady, N. Y. Home address: Apt. 5, 33 North Ferry Sc., Schenectady, N. Y. James Forchtreer, '35, is Junior Engineer, District Safety Inspector, W. P. A., living

at the Y M C A, Aberdeen, S. D.
RICHARD N. DOOLITTLE, '35, is Junior Draftsman, Plans Department, State Highway
Commission, Pierre, S. D., with a home
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ONALD MATSON, ex '38, is with the Statewide Highway Planning Survey, Pierre, S. D.

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