The GEAR *of* THETA TAU

Fall, 1922

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FALL, 1952

VOLUME XXII NUMBER 1

The South Dakota State School of Mines

The GEAR *of* THETA TAU

OFFICIAL PUBLICATION OF THE FRATERNITY

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

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Theta Tau Fraternity

Founded at the University of Minnesota
October 15, 1904

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St. Louis—H. R. Kilpatrick, 216 Elm Ave., Glendale, Mo.

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 9, 1907* - - Colorado School of Mines
P. O. Box 26, Golden, Colorado

DELTA, *Established May 23, 1911* - - Case School of Applied Science
Case School of Applied Science, Cleveland, Ohio

EPSILON, *Established May 4, 1912* - - - - - University of California
Box, Hearst Mining Bldg., University of California, Berkeley, Calif.

ZETA, *Established April 17, 1912* - - - - - - - University of Kansas
(Chapter house) 1409 Tennessee Street, Lawrence, Kansas

THETA, *Established May 26, 1914* - - - - - - - Columbia University
Care of Prof. T. H. Harrington, Columbia University, New York City

IOTA, *Established February 1, 1916* - - - - Missouri School of Mines
Theta Tau Box, Missouri School of Mines & Metallurgy, Rolla, Mo.

KAPPA, *Established March 25, 1916* - - - - - University of Illinois
P. O. Box 516, Station A, University of Illinois, 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
Box 533, 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) 4 East Market Street, Iowa City, Iowa

PI, *Established May 26, 1923* - - - - - - - - University of Virginia
P. O. Box 1054, University, Virginia

RHO, *Established February 16, 1924* - N. C. State College of Ag. and Eng.
P. O. Box 5103, 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
P. O. Box 11, University Station, Syracuse, New York

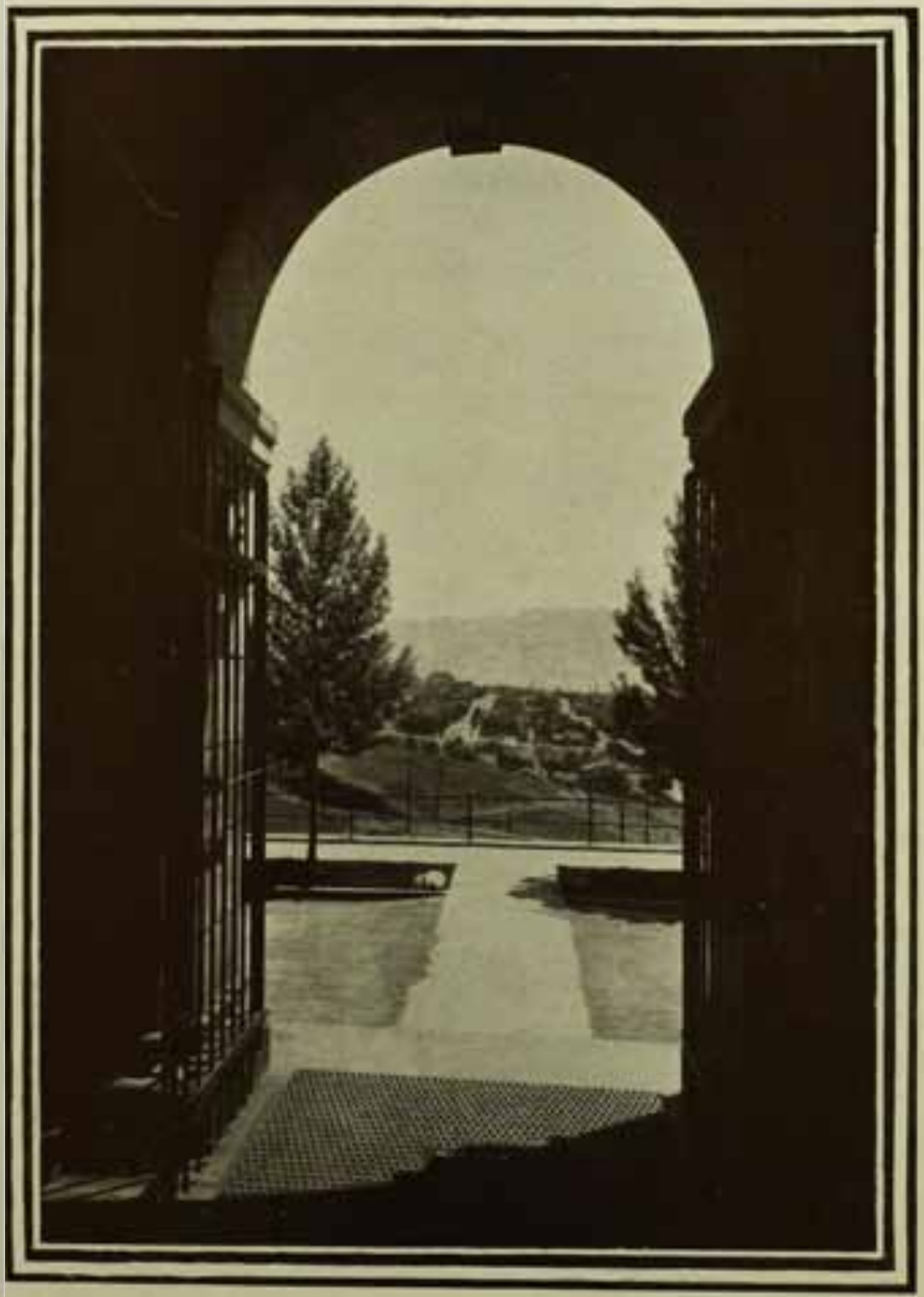
UPSILON, *Established April 7, 1928* - - - - University of Arkansas
P. O. Box 24, University Station, Fayetteville, Arkansas

PHI, *Established April 21, 1928* - - - - - - - - Purdue University
(Chapter house) 40 N. Salisbury St., West Lafayette, Ind.

CHI, *Established April 23, 1930* - - - - - - - University of Arizona
Theta Tau Box, Engineering Bldg., University of Arizona, Tucson, Ariz.

PSI, *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) 1117 St. Joe St., Rapid City, South Dakota



From Union Hall overlooking city of Butte

Psi Chapter Installed

At the Montana School of Mines, Butte, Montana

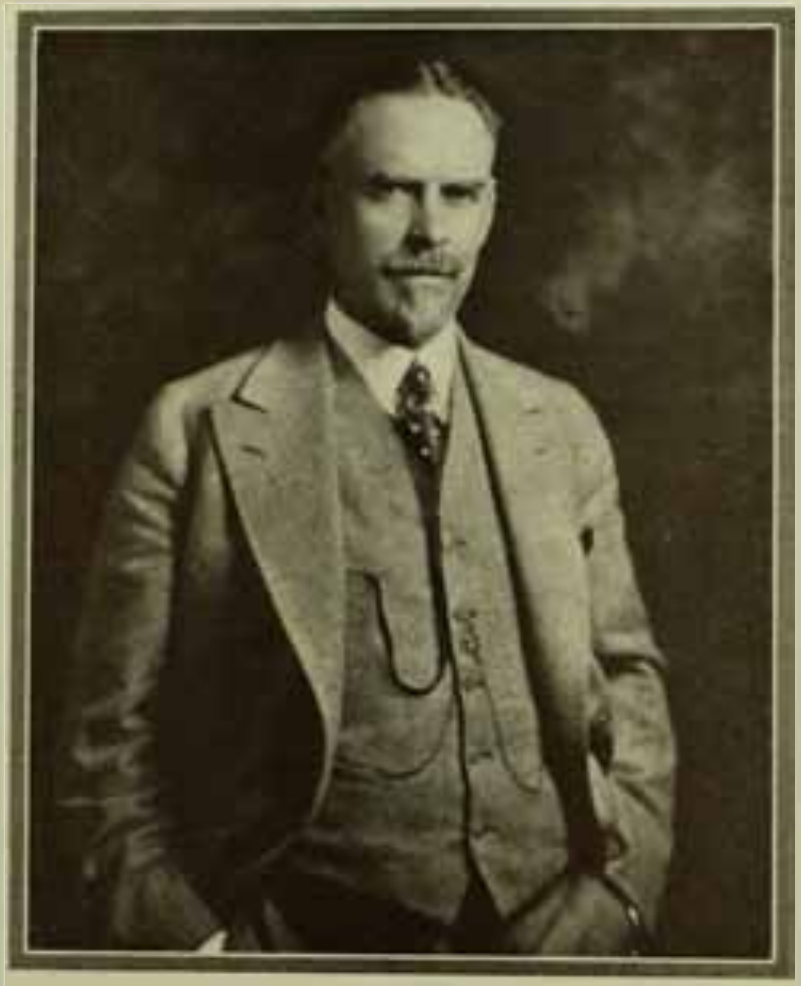
Looking down upon the city of Butte and the adjacent mining country stands the Montana School of Mines.

John M. Conkow, Regent

In the thick of the mining and oil drilling industries of that region, the school has come to be the place "where theory and practice meet". From the mines on one hand and the classroom on the other, the Mines students absorb the important facts and relations essential to successful participation in the mining industry.

From a small institution opened in 1900, the school has developed into a strong training ground for Mining Engineers, Metallurgists, and Geologists. The enabling act of Congress, which admitted Montana as a state to the union in 1889, provided 100,000 acres of land for a School of Mines. Sales of this land have created an in-

Charles R. Trukworthy, Vice-Regent

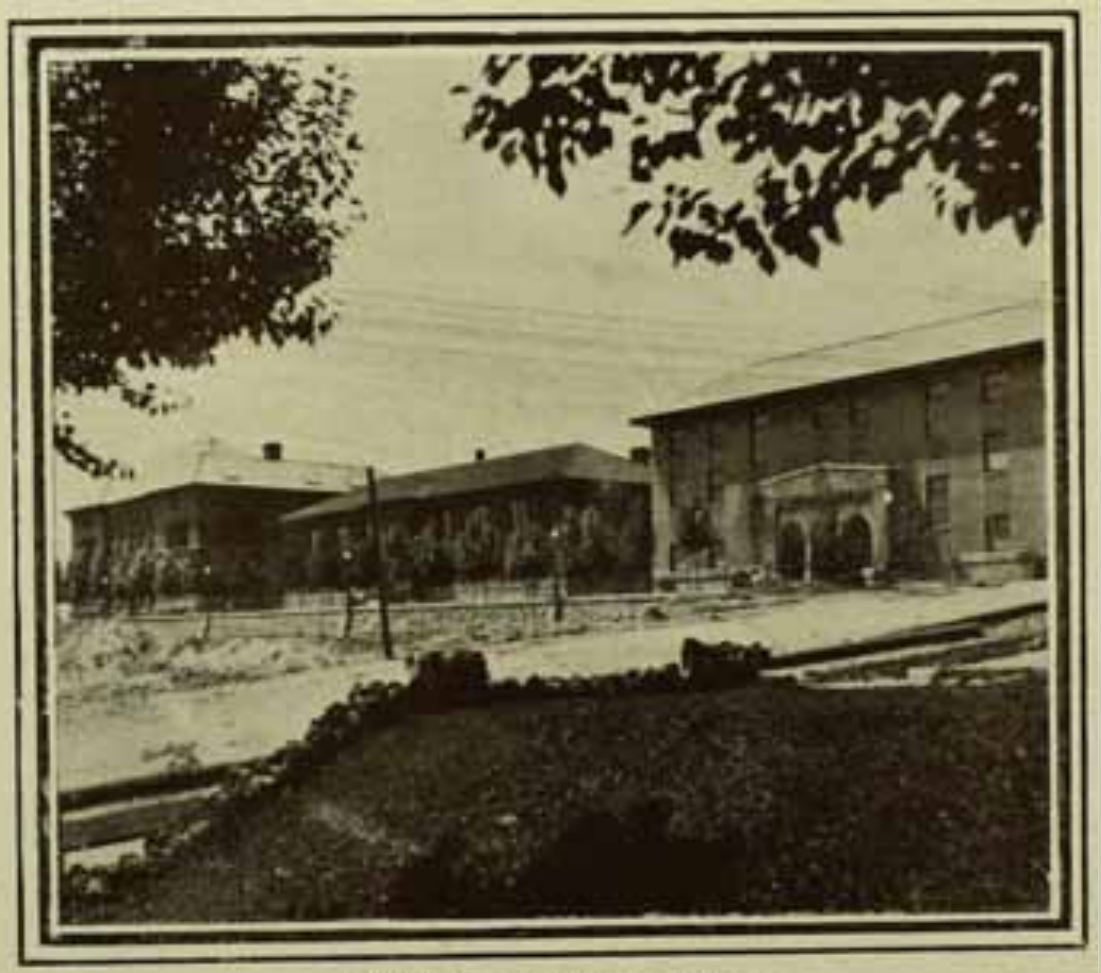


Dr. Francis A. Thomson, President Montana School of Mines

vested endowment of $605,000 from which income only can be used. This income together with rentals and legislative appropriations provide the school with some $120,000 annually.

A steady growth has followed since 1900 and now the state of Montana has nearly one million dollars invested in its School of Mines. Main Hall, Engineering Hall, Mill Building, Metallurgy Building, and Gymnasium comprise the group of buildings now found on the campus and another major addition to this number is contemplated.

Enrollment has steadily increased as additional facilities have become available. The student body has grown from seventy-five at the time of the world war to two hundred sixty at the present time with the trend still strongly upward. This number is more significant when it is remembered that the school grants degrees only in Mining, Geology, and Metallurgy. Today, the Montana School of



Gymnasium, Engineering Hall, Main Hall

Mines holds a strong position in its field and provides thorough instruction and abundant equipment for its students.

In 1919 Alpha Theta fraternity had its beginnings in the Anderson Carlisle Technical Society, so named in honor of two former students who lost their lives in the World War. This society continued its functions until 1927 when it was reorganized into a professional fraternity. In 1930 the original name was dropped, and the Greek letters Alpha Theta adopted. For many years this group has been scholastically and politically the strongest on the campus.

Finding that its ideals and objects were essentially those of Theta Tau and desiring the benefits inherent in membership in a strong national fraternity, a petition was drawn up and submitted to the Executive Council of Theta Tau in November, 1931. After thorough investigation, the Executive Council reported favorably upon the petition, and the Tenth Biennial Convention authorized the in-

RALPH J. SEIBERMAN, Scribe

stallation of Alpha Theta as Psi Chapter of Theta Tau.

On May 7, 1932, the following men installed Psi Chapter and initiated twenty-eight members of Alpha Theta: Erich J. Schrader, Alpha '01, Acting Grand Regent; T. C. Adams, Lambda '21, Acting Grand Vice-Regent; George B. McLeese, Lambda '24, Acting Grand Scribe; Edward S. McGlone, Gamma '23, Acting Grand Treasurer; Oscar O. Dingman, Zeta '15, Acting Grand Marshal; William Marshall, Lambda '32, and D. B. McGilvra, Alpha '17, Acting Grand Inner Guards; J. Donald Forrester, Lambda '28, and Hale M. Strock, Gamma '22, Acting Grand Outer Guards.

Purdue University continues to hold its rank as the largest engineering school in America, according to the recent report on land grant colleges and universities for the year ending June 30. The report is issued by the U. S. Department of the Interior.

Ohio State University ranks second in size and Massachusetts Institute of Technology third. The enrollment figures in the report show Purdue with an engineering enrollment of 2,839, Ohio State with 2,058, and M. I. T. with 1,890. Purdue offers courses in four branches of engineering as compared with six branches in each of the other schools mentioned.

FACULTY ADVISERS FOR FRATERNITIES

Alumni in general probably do not realize the extent of the "resident adviser" plan now in effect among the Greek-letter fraternity houses at Illinois. Certain it is that most alumni seem surprised when told that there are now 24 chapter houses with "resident advisers" or "praeceptors" or "tutorial advisers" as they are variously called. The movement, which began at the University of Iowa four years ago, started at Illinois in 1928 when Delta Tau Delta installed an adviser, Joseph Rogers, '30 B. L. S., in its house.

The resident adviser, who is usually a bachelor faculty member or graduate student (not necessarily a member of the fraternity he advises) lives in a suite of rooms in the house and is available for consultation, advice, and tutoring. Some advisers act also as general house managers, supervising the budget and finances in general. This latter function is especially important in these days of depression when fraternities must watch their expenses with special care.

Omega Chapter Installed

At the South Dakota State School of Mines

WHILE Dakota was still a territory, The South Dakota State School of Mines was established by the Territorial Legislature on March 7, 1885.

The School was located in Rapid City, due to its proximity to the mining districts and the mountainous region known as the Black Hills—with the idea foremost that assaying of ores, analyzing of samples, metallurgical experimentation and geological and mineralogical surveying should be carried on.

The first building was completed in 1886 and instruction began on February 17, 1887. All of the departments as well as a small museum, donated by Professor Gilbert E. Bailey, were housed in this first building which was 37 by 56 feet and three stories high. In June, 1887, however, preparations were made for the erection of a second building which was to house the Mining and Metallurgical departments. This was completed in 1888.

The enabling act providing for the division of Dakota Territory and admitting South Dakota and North Dakota to Statehood in 1889, gave to the School of Mines 40,000 acres of South Dakota lands. These lands, in the earlier years showed a revenue of little importance. They now furnish considerable sums for the work of the institution, but the chief income is provided through biennial appropriations by the State Legislature.

With the coming of Statehood there was an increase in mining activity throughout the Black Hills. This stimulated the enrollment of the school but the students were interested principally in short courses centering around assaying and surveying and for a period of ten years there were no graduates.

In 1898 a greater interest was taken in the School of Mines and enrollment increased. At this time there were three courses given, *i. e.*, Mining Engineering, Civil Engineering, and General Science, with most of the men enrolled in General Science. At the same time, the school was carrying on a Geological Survey of the Black Hills and also doing quite a little topographic mapping of the surrounding country. Another type of field work was started about this time, that of fossil collecting. Parties of students went into the Big Badlands each summer (the chief collecting grounds) and very soon the museum had grown to a worthwhile size.

In 1901 the third building was erected. Into this were transferred the museum, the library, and the chemistry and mathematics departments. The school now consisted of

three buildings and about fifteen acres of campus.

In 1911, a magazine known as *The Pahasapa Quarterly* was established and continued until 1923 when its name was changed to *The Black Hills Engineer* which still continues to be published each quarter. This was the realization of an effort which had begun in 1899 with the bringing forth of the *Aurum*, a magazine which lasted but three years.

In October, 1912 a large "M", in size 67 by 112 feet, was placed on Cowboy Hill which faces the campus. Originally built of whitewashed sandstone, the stones are gradually being replaced with sections of concrete put in by each graduating class.

From 1912 to 1918 the School of Mines enjoyed a gradual increase in attendance and in September, 1918, boasted 50 engineering students. Shortly after the entrance of the United States into the World War, the School of Mines became a training school for men from South Dakota. The subjects generally taught during this period were mining practice and radio. This school continued until about June, 1919, and during the period trained approximately 1000 men.

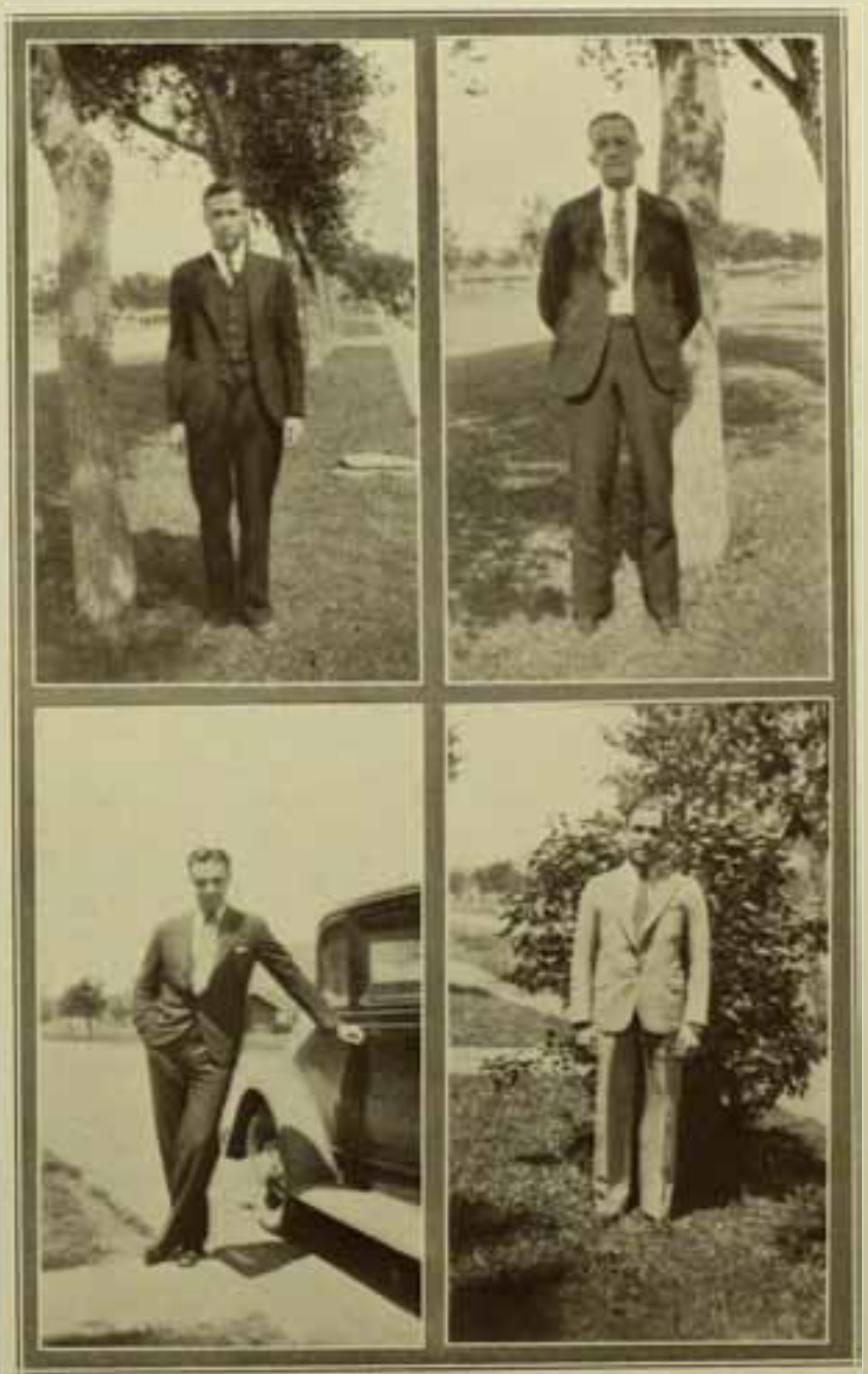
In 1922 the Engineering Building was added to the School of Mines. This became the fourth in the group and made possible the establishment of the Electrical Engineering Department. It also gave better accommodations to the Department of Civil Engineering and to the Department of Higher Mathematics.

In 1923 a new heating and water distribution system was installed, which added greatly to the value of the property which besides the four buildings now comprised 25 acres of campus.

Expansions now followed in rapid succession. Enrollment had increased to 180 in 1923, new equipment was being added to all of the laboratories, important field work was being done in regard to the study of the paleontology, geology, and minerals of the region, and an extensive Black Hills Herberium was established.

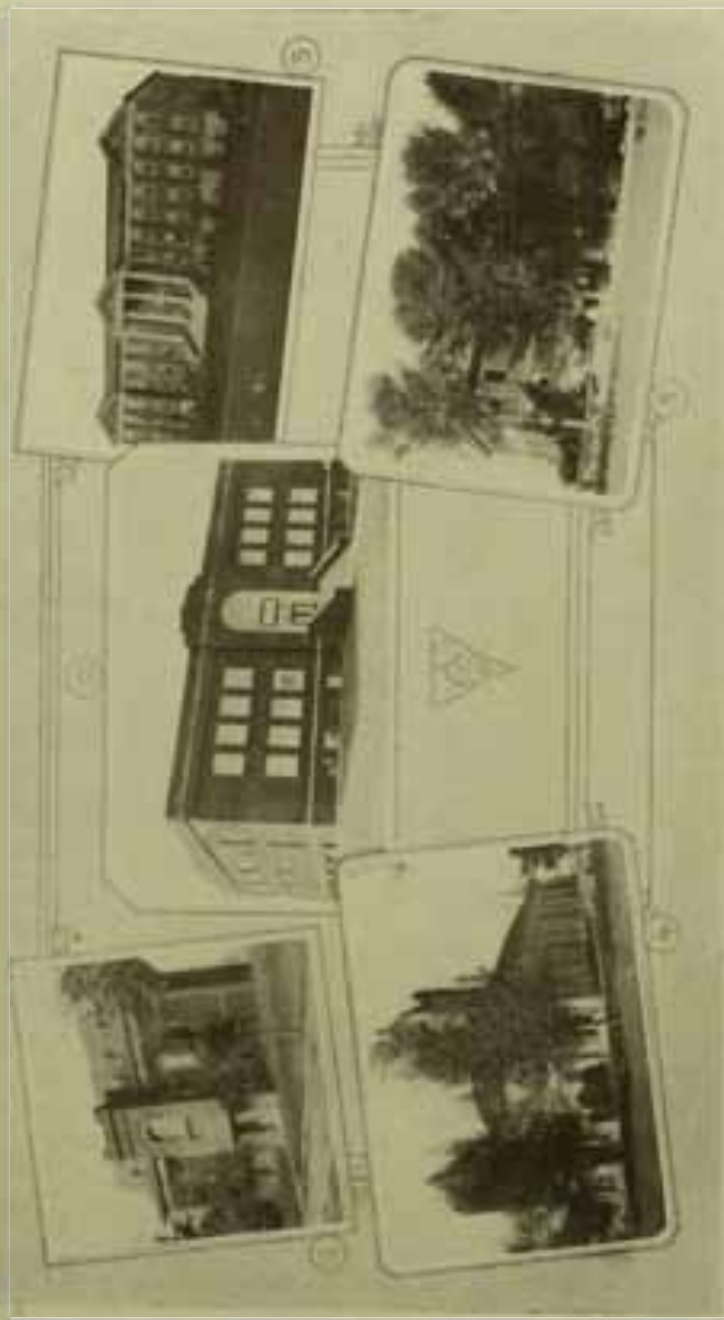
In 1928 a new Gymnasium-Auditorium was added to the campus. This gave the needed stimulus to the Department of Athletics, and since its completion the building has been one of the most useful additions to the school. The school is a member of the South Dakota Intercollegiate Athletic Conference with teams in football, basketball and track. In 1931, a flood lighting system was added to the football field, and later during the same year preparations were made for the building of a quarter mile track and football stadium joining the campus.

The School of Mines has, without doubt, made its greatest progress during the last ten years. The campus includes some 100 acres and the pres-



R. D. Marquardt, Regent
F. A. W. Estrup, Scribe

C. L. Hirson, Vice Regent
F. Paddock, House Manager



VIEWS OF THE SCHOOL OF MINES CAMPUS

1. First Building. 2. Gymnasium. 3. Engineering Building. 4. Metallurgical Building. 5. Administration Building.

ent enrollment is about 400. Total value of all grounds, buildings, equipment and endowment lands is approximately $1,250,000. The school now offers courses in Chemical Engineering, Civil Engineering, Mining Engineering, Metallurgical Engineering and Mining Engineering—Geological Option.

The Phi Alpha Lambda Fraternity was organized at the South Dakota State School of Mines in 1920, with the distinction of being the first fraternal organization of the school. It came into being as a result of the feeling on the part of several young men for the need of fraternal fellowship at the school. The expressed aims of the organization were to create a spirit of fellowship and common interest among the students; to help in all ways college and fraternity brothers; and to form a social center for the members and their friends.

Because Phi Alpha Lambda was the first fraternity at the school, it naturally had to face a great deal of opposition during its early existence on the campus. Most of this opposition could be traced to ignorance as to the aims and purposes of a fraternity. However, as the fraternity grew in size and spirit, its influence also increased favorably, so much that it soon came to have the whole-hearted support of the president and faculty of the school, and the good will of the student body.

In 1924, rooms were rented at 409 Kansas City Street, for the out-of-town members of the fraternity. This practice has been followed since that time, and at present the fraternity maintains a large house at 1117 St. Joe Street where most of the out-of-town members stay and where a dining room is maintained. The house and dining room are both under the supervision of the house manager.

Although Phi Alpha Lambda was organized as a general fraternity, it was at the same time an engineering fraternity, since the School of Mines is entirely an engineering college. The group, therefore, in November, 1931, presented a formal petition to Theta Tau for a charter, which was granted at the 10th Biennial Convention in Fayetteville, Arkansas.

Phi Alpha Lambda was installed as Omega Chapter on March 26, 1932, by Erich J. Schrader who was assisted by C. O. Anderson, Alpha '31, Leo J. Aschenbrenner, Omicron '31, and Ralph I. Claasen, Omicron '31. The Banquet address given by Brother Schrader will be found elsewhere in THE GEAR. Thirty-two men were initiated at the time of the installation and a strong chapter at Rapid City was assured.

Armour Institute, in keeping with its development plans, reported in *The Beat* in April, has established fifth year courses in chemical and civil engineering. The department of architecture has been offering courses leading to the degree of M. S. for several years. Graduate work in the two departments noted will be offered in the fall, for the first time.

According to the "Unicorn" of Theta Xi, the Oregon State Board of Higher Education has unanimously adopted the report of its curriculum committee which recommended the unification of the University of Oregon, Oregon State College, and three normal schools, under a centralized administration. A saving estimated at two million dollars will be accomplished within the next two years.

Ideals of Theta Tau

Address given by Erich J. Schrader at installation of Psi and Omega Chapters

THE college fraternity is a fraternity whether it consists of engineering students, of medical students, or of college students from any and all courses of study."*

When it consists of students from all departments it is a general or a social-academic fraternity. When it restricts membership to students of one or several closely related courses of study, it is a professional or departmental fraternity. If it confers membership because of scholastic excellency as a chief requisite, it is an honor society. In addition to these accepted divisions there are a lot of national and local so-called honorary societies which are an example of that useless over-organization which is a detriment to college life in general.

Theta Tau is a professional fraternity and restricts membership to engineering, but including geology because of its close connection with the mineral industry. "In government, in policies, in teachings and principles, the professional fraternity stands second to none. Its membership is usually more mature and its methods of selection depend on real fundamentals of character and ability", so that the group approaches the ideals of true fraternities which can justify their existence by their usefulness to the members.

"The professional fraternity offers serious and lasting benefits to its members in that the contacts made possible are generally in line with the serious endeavors of its members and at the same time the fraternity should fully satisfy their social needs."* The professional fraternity member is provided with a means of introduction to many in his profession. If the fraternity maintains a high standard, the mere fact of membership is a recommendation. Numerous incidents in Theta Tau can be recited where membership was a decisive factor in bringing advancement to alumni and employment to recent graduates, which they would not otherwise have obtained.

A *Fraternity*, however, must have more than just a professional aspect to hold its members. There must be something more than a policy of good scholarship as proof of professional interest and as evidence of latent engineering ability. There must be a spiritual factor in which the members have faith. There must be an ideal that is rooted in the hearts of the members which they can apply in their daily intercourse with each other, and whereby they can measure up to those finer things in life that really count, and which will entitle them to be called MEN.

Our Constitution says that the purpose of Theta Tau is to develop and maintain a high standard of professional interest among its members and to unite them in a *strong* bond of fraternal fellowship. All through the initiation you were told that Fraternal Friendship is the greatest light in Theta Tau and that the principles of the Fraternity are advocated to make you worthy of such friendships.

Theta Tau should have chapters of more than average scholarship, it should stimulate a search for professional efficiency in its members, and it should inculcate the principles of ethical conduct in professional practice. It has been said that "professional ethics is a system of principles and rules concerning moral obligations and a regard for the rights of others." Of course a professional fraternity should teach such things.

To be sure, any technical society could advocate these practical and worthy objects, but a *fraternity* has the task of developing the character and ideals of its members. It searches much deeper into the hearts and minds of men. It seeks to limit membership to those who can be worthy of it.

If a candidate can measure up to the purely professional requirements, our next step should be to search his record and see if he is of that congenial type of man who will act as a brother should. Membership should not be given for trivial reasons. Our chapters should be beyond the youngest adolescent period of life. Campus stars, athletic heroes, those whose chief aim in life is to coach or sell bonds on their scoring ability, have no place in a professional fraternity. We must look to the personal and potential professional qualifications of candidates and then we must emphasize the fraternal bond again and again, and realize that the whole basis of our Order is a close union of the members, a union that is to be enduring.

We must treat our Pledges as men, not as servants. We must accept them as being on probation but as equals, and we must so prepare them that to be a Theta Tau will be their dearest wish. Paddling, humiliating horseplay, brutal hazing, have brought the entire fraternity system into disrepute. Our Constitution prohibits such actions. They destroy, and they do NOT build a true friendship among MEN.

Professional fraternities sometimes face certain dangers.

First

There is a tendency to imitate the purely social atmosphere of the general fraternities and thus become simply campus clubs serving only social needs and having no professional standards. A professional fraternity should be more than a college boarding house for social striving. "It should be an influence for the fostering of intellectual interest and achievement, and it should foster the kind of sociability which is contributive to fine personal power, and not destructive to it." Social training has its place in Theta Tau. Good manners and neat dress are an asset to the engineer. The Fraternity should teach their importance. They enable the young engineer to mingle with his equals and superiors without embarrassment.

Second

With certain professional activities there may be a tendency to make a chapter assume the status of a lecture

bureau. A fraternity is in its nature a selected body of men. It should not attempt to sponsor speakers or professional programs for an entire student body except in a limited way, and thus usurp functions which rightfully belong to the student professional societies to which any student is eligible. Neither should a fraternity assume duties that the professional faculty is too lazy to perform.

Such a scheme destroys the fraternity idea. We have certain professional activities that are traditional in Theta Tau, but they are for our members and pledges and are to train them to stand on their feet and discuss professional and other matters with ease and confidence. They are to develop the power of criticism and analysis of the thoughts of others, and they are to be exercised in the privacy of the chapter room, among a group of sympathetic listeners, so that the embarrassment of the novice will give place to the assurance of habit.

When a chapter of Theta Tau has an "open" meeting it should act as host. The meeting should be for invited guests and pledges, but most of the meetings should be closed, and attendance should be one of the benefits and rewards of membership. If anyone can come to a Theta Tau educational meeting, one incentive for an ambitious and desirable student to be a member and serve the Fraternity is removed by the Fraternity itself. Chapters of Theta Tau must cooperate with the faculty and college authorities but they should not accept burdens or assume privileges which are by right the duties of other organizations, to which they as individuals may belong, and which they as individuals should support.

Third

There is a tendency to assume that professional fraternities are only upper-class honorary societies or semi-honorary groups and not real fraternities in any fundamental way.

The members of the Professional Interfraternity Conference, of which we were one of the founders, are not honorary fraternities. In fact, we join with many others in feeling that most of these so-called honorary societies could be abolished with profit to everyone, including their own members. If the scholarship is high, they are merely an imitation of Phi Beta Kappa and other recognized scholastic honor societies. If it is a so-called "activities" fraternity, it usually has no merit whatever and after graduation the pin or key is packed away with other childish toys so that not even the owner can find it again, for when you take the insignia away, what can the owner say he received from such an order? Theta Tau does not want its members to be mere pin wearers. They should have more than just a social or collateral interest in each other and in the Fraternity. They are to feel themselves members of a great engineering fraternity of definite object which is entitled to the active support and interest of every member. Who among us wants to say of Theta Tau that when the badge is taken away there is nothing left? Surely, though the badge be gone, we ought to have left a rich memory of associations through our student days, of friendships that had their beginning in this Fraternity, and which neither time nor misfortune can destroy. To us the traditions and principles, as well as the practices of Theta Tau, should be living ideals that we can

apply in every day life and take pride in the fact that they are not entrusted to everyone.

The best professional fraternities advocate the maintaining of some sort of a chapter headquarters which will be a concrete habitation in which fraternal contacts can be fostered and to which alumni can return to revive them. This contributes to an atmosphere of being together where men are working to a common end, bringing out in relief all those qualities which make a professional fraternity worth while. Great changes are taking place in the college world. We may possibly see a future time when no fraternity will live and serve meals in its own house, and where such houses will be used only for meeting places. In fact, this condition already exists at some colleges. Moreover, it is obvious that the local conditions at many schools may be such that a house where men may live is impractical, if not forbidden. Chapters may exist at engineering schools where the student body is small, or where almost everyone belongs to some long established chapter of an academic fraternity. In such a college a professional fraternity should plan to build some sort of a small hall, or maintain some sort of a club room which is theirs alone, and where alumni can always find them.

The financial problems arising in a fraternity are in themselves a favorable training. It is obvious that the right minded and decent student will pay his debts. I can asure you that a man's credit has much influence on his professional progress. Engineers who fail to meet their just obligations are received with a reserved judgment which is a handicap in all their business intercourse. Anyone can meet with misfortune but there is an honorable and frank way to meet such situations with credit and the true fraternity will not fail to help its loyal members.

"Active life in the Fraternity is but a period of apprenticeship and final control over traditions and administration is a prime responsibility of the aluminus." The active chapter builds the foundation because it selects the future members. The alumni build the superstructure because in the larger world of engineering it is the reputation of the alumni which makes the reputation of the Fraternity.

The chief purpose of engineering education is to enable a man to earn a living. His contribution to science and to his country is a result of his professional activity. Our Fraternity should teach the engineering student "how to enrich his mental and moral life, to be more of a man, to be a real person, and not simply a cog in the machine of industry or the profession, including the teaching profession. Self-expression, affection, helpfulness, understanding, sharing joys as well as sorrows, all these are instinctive and human emotions". They lift the human being to a higher plane than just physical existence.

It is not the fine houses a fraternity may have, it is not in numbers, it is not in the prominence of the alumni, but it is in the fraternal bond, its teachings and practices, its unselfish and enduring friendships, by which you must measure its usefulness to the members. The foundation of this chapter rests with you, and may your successors have always before them a vision of that true Theta Tau,

of which they, as well as we, should be the builders and protectors.

Finally, my Brothers, let me assure you that until and unless "you place yourselves in the position to be of active benefit to it, both as a student and as an alumnus, the Fraternity can never justify itself *to* you, because you will not *deserve* anything from it. The whole of life is like that."

A roll of industrious, of faithful and happy chapters, a prosperous, honorable and loyal alumni, that is a Fraternity in fact as well as name.

My Brothers, that is the Theta Tau we hope and strive for.

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*The Professional Fraternity, Dr. T. R. Pearson; Phi Chi Address by Dr. Henry Suzzato, Zeta Psi

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In the Name and Under the Authority of the Executive Council

To all members of Theta Tau, Fraternal Greeting.

Whereas:

It has pleased Almighty God to call our beloved Brother Hubert G. Hall, Lambda '18, Grand Vice-Regent, Past Grand Outer Guard, Past President, and Past Secretary of the Intermountain Alumni Association of Theta Tau, and,

Whereas:

The Executive Council wishes to express its gratitude to our departed Brother for his many years of unselfish service and devotion to the Fraternity, and its grief at the loss of so splendid a member, devoted husband and father, and honorable citizen.

Now, therefore, be it resolved:

That the active members of Theta Tau be asked to drape their badges in mourning in accordance with the usages of the Fraternity as given in Resolution number nine, page eighty-five, of the Constitution.

Be it further resolved:

That a copy of this Resolution be sent to each chapter, that a copy be spread on the Minutes of the Executive Council, and that the Original be sent to the family of our deceased Brother in loving remembrance of him and as testimony of the affection the Fraternity had for him.

Done at Raleigh in the State of North Carolina, this tenth day of July of the year of our Lord nineteen hundred and thirty-two, and of the founding of Theta Tau, the twenty-ninth.

FRED COFFMAN,
Grand Regent

Attest:

E. J. SCHRAIBER,
Grand Scribe

Prominent Theta Tau Actives

One of the important cogs in Purdue's smooth running football team this fall is Roy Horstmann, 180 pound fullback of Phi Chapter. Purdue failed to share in Big Ten Conference honors because of an unfortunate tie game early in the season, and so placed second to Michigan who was undefeated and untied. Purdue and Michigan did not play this year, and many non-partisan fans believe this was a bit of luck for Michigan. Observers agree that Purdue had one of the most powerful running attacks in the Big Ten and much credit is due Brother Hortsmann for the excellent ball carrying and blocking which he showed throughout the season. The Purdue squad recently chose Roy Horstmann as the player most valuable to the team and thus gave outstanding recognition to a great football player.

Roy Horstmann, Purdue Fullback

Charles W. Britzius

It is a distinct honor for a student to be elected to the captaincy of a University athletic squad. Charles W. Britzius, Alpha '33, has had that honor in being elected Captain of the All-U Tennis Team. He was singularly honored in being elected this year to that captaincy for the second time. It goes without saying that he has earned that position by his superior skill and consistency.

He is the co-holder of the Big Ten Conference Doubles Tennis Championship for last year. In Big Ten circles he has been rated No. 3 man. Some

of the titles he holds are as follows: Northwest Clay Court Singles, Red River Valley Singles and Doubles, and Southern Minnesota Singles. In the picture are shown some of the trophies he has won; he also has a number of medals in his possession.

During the time he has been a member of Alpha Chapter, he has participated in all intramural sports and chapter activities. Last year, he starred on Alpha's Professional Champion Basketball Team. This year, he has been one of the mainstays of Alpha's rapidly developing Volleyball Team.

He is the representative from engineering, chemistry, and mines on the Student Board of Publications and has kept up a high standard of scholarship for the past three years.

At this time Omicron wishes to honor one of its most outstanding members, Brother Leo J. Aschenbrenner, Ch.E. '32, of Dysart, Iowa. Brother Aschenbrenner came to the University of Iowa four years ago and immediately began to make things go. During the first semester of his freshman year he pledged Theta Tau and was regularly initiated the following autumn. He finished his freshman year by putting his name on the freshman Honor roll, winning the scholarship cup in Freshman basketball, and taking part in the Mecca Show. The sophomore class saw him as President of that group, and again as a member of the Honor roll.

The important junior year saw him elected to membership in Tau Beta Pi, Phi Lambda Upsilon, and Scabbard and Blade. When Mecca rolled around, he had a major part in the show. At the close of the year he was elected to R. E. I. and A. F. I. being chosen as president of that group. He was also named president of the A. S. of E.

During his senior year he was a member of the Student Council and a major in Military Department, Eng. Unit. He assisted at the installation of Omega Chapter at Rapid City, South Dakota, and during his sophomore year he attended the Ninth Biennial Convention of Theta Tau at Minneapolis, Minnesota. He also served as Vice-Regent during his Senior year. At the close of his senior year he was elected to Associate membership in Sigma Xi, and graduated "with distinction".

Leo J. Aschenbrenner

This year Brother Aschenbrenner is back in school doing advanced work in Chemical Engineering. His expressive words about his activities are just that, "Activities are a good thing to have, but is sure is a relief to be free."

In Memoriam

The Executive Council Wishes to Express its Deep Sorrow At the Passing of the following Brothers, About Whom Details are not Available at this Time:

Edw. V. Graybeal, Gamma '14
George M. Cheney, Gamma '17
William G. Gallagher, Jr., Epsilon '23
Ernest Hugh Proctor, Rho '30.

HUBERT G. HALL, Lambda '18

Brother Hubert G. Hall was born in Centerville, Utah, but moved with his parents to Mexico City, Mexico, in 1896, and there he spent his boyhood days attending German, French, and Spanish grammar and commercial schools. In 1912, when the revolution was very bad, and many Americans were leaving Mexico, Brother Hall returned to the United States and settled in Salt Lake City.

After completing his high school work he entered the University of Utah in 1914, and in 1918 received the degree of B. S. in Civil Engineering. He became a member of the U-Tech Club while at the University, and when that local received its charter from Theta Tau in 1920, he was among the alumni initiated on April 30, 1920, being No. 35 on the Lambda chapter-roll.

In 1917 he was married to Almeda M. Eardley. Surviving him are his widow, a daughter, Betty Virginia; two sons, Robert H. and Richard W.; his mother, Mrs. Lulu R. Hall of Kingman, Arizona; a brother, Carlos C. Hall, American Vice-Consul at Valparaiso, Chile; and two sisters, Mrs. Chas. P. Elmer of Kingman, Arizona, and Mrs. Geo. O'Hara, of San Francisco, California.

During the year 1918-1919, Brother Hall served as engineer for the Salt Lake City Engineering Department. In 1921 he joined the staff of Caldwell & Richards of Salt Lake City, and in that same year became a member of that firm and remained with

them until his death. During the years he was with the firm he handled the design, supervision and construction of numerous engineering undertakings especially hydro-electric power plants and mine surveys in Utah, Idaho, Arizona and other western states. He was highly thought of by the profession as an exceptionally able and dependable engineer. His partner, E. Z. Richards, Lambda '05, told me one could have no idea how much they missed him in their organization after he became ill.

In addition to all of his other activities, he became interested in Boy Scout work and for six years was Scoutmaster with Troup 36 and Troup C-36. The National Scout Council recently awarded him the Scoutmaster's Key, one of the highest honors they can bestow.

In 1923 I began to hear of his great interest in all Theta Tau activities, particularly the alumni association and its meetings. In 1925 and 1926 Brother Hall served as Secretary of the Intermountain Alumni Association and he soon had a large number of alumni regularly paying dues, and he conducted an extensive correspondence with them. Later he served a year as President of the Intermountain Alumni Association, and even after retiring from that office, he retained an active interest and did much of the routine work. His office became the headquarters for all Theta Tau alumni visiting Salt Lake City, and since the young engineers employed by his firm were all members of the Fraternity, one could always find a Theta Tau there. He had a particular interest in the employment problem and numberless alumni and recent graduates were helped by him.

In 1929 the Fraternity elected him to the office of Grand Outer Guard and in 1931 he was elected Grand Vice-Regent. In May 1931, I attended the spring banquet of Lambda chapter in Salt Lake City and Brother Hall was then looking forward to attending his first national Convention, but fate intervened. He was a large and robust man with whom one would never associate sickness. Burned brown as an Indian from his outdoor life, he looked particularly well, I thought. He complained somewhat of asthma and apparently this was the first symptom of the fatal disease that caused his death. In October 1931 I received a letter from his office saying that he was seriously ill and had had a bad hemorrage while surveying near Park City, Utah. He was removed to the U. S. Veteran's hospital at Hines, Illinois.

I called on him at Hines on April 12 and found him cheerful but showing the effects of his long illness. To part cheerfully from him in the certain knowledge that we would never meet again in this life, was a bitter trial. Brother H. H. Hopkins, Beta '07, and Brother R. W. Van Velkinburg, Omicron '25, had taken turns in visiting him every few days. Brother Hopkins visited him on June 7 and found him very sick but he roused himself enough to greet Brother Hopkins. He passed away at 1:15 p. m. on June 8, 1932. He was buried in Salt Lake City on June 12. A large number of Theta Tau actives and alumni attended the ceremonies and a committee consisting of Dr. Dorsey Lyons, Hon. Nu, Dr. T. C. Adams, Lambda '21, and Geo. B. McLeese, Lambda '24, represented the Executive Council.

Hubert Hall was a fine Theta Tau and a real friend. He exemplified in his own life all those ideals of loyalty, manly character, and friendship, that our Fraternity endeavors to inculcate in its members. His conduct and ability were an inspiration to all who came into contact with him.

He was of that type of Fraternity Officer who does not seek the limelight, and whose only wish for reward is that hard and arduous work for the order may be successful in its results. His day is done but his work goes on. May he rest in peace in the sunlight of the valley and by the side of the mountains he loved so well.

His sun has set, but sharing his faith in the hereafter, he has but passed through the night into the morning of the ever-living chapter where we shall meet again, and where there will be "no more sadness of farewell."

"Watchman, what of the night?
The Watchman said: The morning cometh."

Grand Scribe.

Reno, Nevada
July 20, 1932

JOHN S. BECK, Omicron '29

John S. Beck, son of Mr. and Mrs. W. E. Beck, 117 East Davenport Street, Iowa City, Iowa, died at the Oakdale sanatorium on October 17, 1932, at the age of twenty-eight years. He had been ill since last May.

Brother Beck was born on April 4, 1904, in Iowa City, Iowa. His family moved to Sioux City, where his public school education was started. In 1914 when the family moved back to Iowa City, he entered the Iowa City public schools. In high school, he was prominent in dramatics, taking part in both junior and senior plays. He attended the college of engineering at the State University of Iowa, and in 1927 affiliated with Theta Tau. Brother Beck took part in the engineering plays given during Mecca week, and in many other engineering activities. After graduating from the University in 1929, Brother Beck assumed a position with the Wagner Electric Company at St. Louis, Missouri. Since March, 1930, he had been at home engaged in general radio work.

Theta Tau unites in expressing regret to those relatives and friends of Brother Beck who feel his loss most keenly.

Richard James Casey, Psi '32

Richard James Casey, son of Mr. and Mrs. T. J. Casey, was born in San Simon, Arizona, on April 11, 1909, and was killed on October 31, 1932, in a mine accident near Juneau, Alaska.

His early education was received in Oregon. In 1926-27, he attended the University of Oregon; and in 1928-29, he attended Oregon State Agricultural College. Brother Casey entered the Montana School of Mines in 1930, and received a B. S. in Mining Engineering on June 3, 1932.

During his two years at the Mines, Brother Casey made many friends. He also was an active worker in student activities. He was an associate editor of the school annual, and was also an officer of the Dancing Club. Brother Casey was a member of Alpha Theta, at the time of its installation as Psi ter of Theta Tau.

After graduation, Brother Casey accepted a position as a mining engineer with the Alaska-Juneau Gold Mining Company. He was working for this company at the time of his death.

The passing of Brother Casey has been a serious loss to relatives, friends, and Brothers of Theta Tau.

ERVIN THEODORE FENNEMAN, Sigma '31

Ervin Theodore Fenneman, son of Mr. and Mrs. Lewis E. Fenneman, was born in Lima, Ohio, on February 20, 1909. His death, at the age of 23, occurred at St. Rita's Hospital, Lima, Ohio, on June 14, 1932. He had been ill for a period of three weeks with an infection of the throat which caused his untimely death.

Brother Fenneman was graduated from Central High School at Lima in 1927. In the Fall of that year, he entered the Ohio State University and enrolled in the College of Civil Engineering. During his second year at Ohio State University, he became affiliated with Sigma Chapter. He received his B. C. E. degree in the Spring of 1931.

He leaves an enviable record of achievement, both scholastically and vocationally. During his career as an undergraduate he was elected to membership in the honorary societies of Tau Beta Pi, Texnikoi, Scabbard and Blade, and Pershing Rifles. He attained the office of President in Texnikoi and Captain in Scabbard and Blade. During his fourth year he was commissioned as Brigade Colonel in the Corps of Cadets and represented the Military Department in the Student Senate, which is a student governing body at the University.

Upon his graduation, he became associated with the engineering firm of Green and Sawyer, general contractors of Lima, Ohio. As an employee of this firm, he held a responsible position during the construction of the Sewage Disposal Plant of Lima, Ohio. At the time of his death, Brother Fenneman was the engineer in charge of construction of a highway bridge located in the city of Mt. Gilead, Ohio.

The Brothers of Theta Tau Fraternity unite in extending to his relatives and friends, their sincere sympathy.

HAROLD C. VAN HOUTEN, Zeta '18

Harold C. Van Houten was born in Topeka, Kansas, on March 17, 1892. Van, as he was known, enrolled in Engineering at Kansas University after completing the courses at the local schools.

While at the University, he became a member of Theta Tau, Tau Beta Pi, Sigma Alpha Epsilon, and Ahuku (Athletic Helpers of K. U.)

Following his graduation, in 1918 Van entered the Naval Reserve Service, making two trips across the water; on one of these trips his ship was rammed by the enemy. On returning to the United States, he entered the Navy Steam Engineering School at Hoboken, N. J.

In 1920, Brother Van Houten entered the Junior Engineering course of the Empire Oil and Refining Company (having some credit due to his working during vacation:) and remained with this concern until his death.

He worked at Bartlesville, Oklahoma; Augusta, Kansas; and finally made his home at Oil Hill, Kansas. Brother Van Houten was first assigned the duty of Superintendent of Dehydrators, but at the time of his death was performing his duty as Production-Petroleum Engineer in the Kansas division of the Production department.

On January 30, 1932, he succumbed to a sudden heart attack.

With deepest sincerity, Theta Tau wishes to extend sympathy to the wife of our deceased Brother Van Houten, to his twin daughters, to his parents, and to his friends.

Neel Bullock, Mu '11

Neel Bullock, son of Mr. and Mrs. Neel Bullock of St. Andrews, Florida, was born on December 20, 1909.

Upon graduation from Georgia Military Academy, Brother Bullock entered the University of Alabama in the Fall of 1927, registering in the College of Engineering. His course of study while in school was electrical engineering.

At the University Brother Bullock rapidly grew to be one of the most popular and well-known men on the campus, as well as in his own college. He was a member of Theta Chi, general fraternity, and a member of Theta Tau, professional engineering fraternity. He was always interested in other activities over the campus, being also a member of Greeks, a national interfraternity social organization.

Brother Bullock officiated on the Saint Patrick's Day Committee in 1927, 1928, and 1929, and was an important factor in the success of these yearly holidays during his time at Alabama.

Last year Brother Bullock represented Mu Chapter at the Biennial Convention in Fayetteville, Arkansas, and made numerable friends in that brief period.

Upon the completion of his courses at the end of summer school, he went to Mobile to take a well-earned vacation. Two days later, on August 2, 1932, while sailing on the Gulf of Mexico with a party of friends, he fell overboard and was drowned.

Theta Tau extends its sincere sympathy to all friends and relatives of Brother Neel Bullock.

Ambrose Joseph Mandel, Theta '16

Ambrose J. Mandel, son of Mr. and Mrs. Edward Mandel, was born in New York City on February 8, 1895.

In 1914, he was graduated from Columbia College (B. S.), and in 1916, he was graduated from Columbia School of Mines (Met. E.). He represented Columbia on its intercollegiate chess team in the tournament against Harvard, Princeton, and Yale in 1914 and again in 1915. His ability along this line is indicated by the fact that he won all his games.

After graduating from the School of Mines, he became chemist for the Cananea Copper Co., but soon went to the Electrical Alloy Co., Morristown, N. J., as an engineer, and later to Arizona as chemist for the Iron Cap Copper Co. As a metallurgist, Brother Mandel served with the following concerns: Green Mines, Mexico; New Jersey Alloys Co., New Jersey; Standard Alloys Co., New Jersey; and Hardite Metals Co., New York. In 1921, he returned to the Electrical Alloy Co. and was living at Forest Hills, L. I., at the time of his death on June 28, 1931.

However, Brother Mandel devoted himself principally to research work and became a consultant metallurgist. He had taken out letters patent for the following inventions: 1. Alloys intended for castings suitable for use at a high temperature, the alloys offering a very great resistance to oxidation at high temperature; 2. Electrode and contact element—this invention relates to electrode and contact elements which are subject to electric arcs, such as the contact elements of timing devices and the electrodes of spark plugs; 3. Methods of Making Porous Objects—this invention relates to a method of making porous products, such porous products being useful for various purposes such as for filtering materials and as heat insulating materials. At the time of his death, he had filed applications for the following patents which are still pending: 1. A hard alloy to be used for making cutting tools; 2. A filament for vacuum tubes; 3. An alloy suitable for electron discharge devices, the application dealing with the alloy and with the method of producing the alloy.

Theta Tau wishes to express its deep sorrow at the loss of Brother Mandel.

The GEAR *of* THETA TAU

OFFICIAL PUBLICATION OF THE FRATERNITY

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

289 ENGINEERING HALL . . . . . IOWA CITY, IOWA

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VOLUME XXII FALL, 1932 NUMBER 1

TO PSI AND OMEGA CHAPTERS —GREETINGS

It is a great pleasure to add our welcome to two such healthy "baby" chapters of Theta Tau in a single issue of The Gear. Not since 1928 when Upsilon and Phi were installed have we had twins to share honors as the fraternity's youngest chapters.

To the actives of Psi and Omega we can wish nothing better than that you carry forward in Theta Tau the banners of loyalty and purposeful effort which brought fruition in your endeavors as locals. You have achieved an ambition; let your new ambition be to become leaders in strengthening our fraternity and in developing engineers with true Theta Tau ideals.

HUBERT G. HALL

Theta Tau has lost one of its outstanding men. Hubert G. Hall had taken an active part in the life of the fraternity for many years. His interest and ability received national recognition when he was elected Grand Vice-Regent in 1931 but fate intervened and cut short his services to the fraternity. However he has rendered one service that will live after him. He was a living example of a true Theta Tau and his personality as pictured by Erich Schrader in the obituary of Brother Hall will live on as an inspiration to all of us.

ERICH SCHRADER'S INSTALLATION ADDRESS

At the installation of Psi and Omega chapters, Erich Schrader, founder and Grand Scribe, gave the new chapters a graphic description of the problems and ideals of Theta Tau. We have prevailed upon him to have the address printed in this issue of The Gear for we are confident that its clear, sensible analysis of the fraternity and its activities will be of benefit not only to our new chapters but also to all chapters throughout the fraternity. We especially urge the present chapter officers to read this address and in the light of its inspiration critically examine their own chapters.

NEW EMPLOYMENT SERVICE

In this issue of THE GEAR, a new employment service is inaugurated. Employment notices submitted in accordance with the rules governing their publication will be printed in the hope that alumni of the fraternity who are in position to employ men may be aware of the qualifications of their brothers who desire work. It is realized that present results will not be especially encouraging. However, the future looks somewhat brighter. The life membership plan which was put into effect three years ago is now making itself felt on our subscription list. Every year more alumni will receive THE GEAR. Every year more alumni will reach the stage where they are in position to employ younger men. Every year the probability of securing a position through THE GEAR's clearing house will grow stronger. So, although we are not overly optimistic regarding the present value of this new service, we think we see a bright future for it and so start it out on its journey with our benedictions. Read the Employment Service rules and use the service. We hope it can help you.

THE 1932 THETA TAU

From the point of view of the editors, the 1932 Theta Tau seems to be an active and efficient gentleman. For the first time in years every chapter has sent in its chapter letter without being requested two or three times for the information. This fall one letter from THE GEAR office was sent to all Scribes and each responded with his letter. All but two were on time and one of those was but a day late. This indicates the presence of responsible men in our chapters this year. Unlike high school boys, they did not have to be notified two or three times that the dead line date was near but assumed their responsibility as an engineer should. We like the spirit shown by the Scribes and thank them for their fine cooperation. This is the best record that we have seen in four years' time, and since this is a "between conventions" year we believe this performance worthy of mention.

SCHOLARSHIP IN EVIDENCE

While feeling in a congratulatory mood, we are going to compliment some of the chapters upon their scholastic records. Gleaned from the chapter letters are these facts: last year Alpha ranked second scholastically among professional fraternities at Minnesota; Beta was first among all fraternities at Michigan School of Mines; Zeta stood second among all fraternities at Kansas U.; Phi ranked third among twenty-eight housed fraternities at Purdue; and Omega was off to a healthy start at South Dakota Mines with a third place among all fraternities. Needless to say, one of the primary objects of Theta Tau is to encourage its men to get the most out of an engineering education. Success in the attainment of this object is indicated by scholastic standing. All of the chapters named above have a chapter house and that these chapters give their members a good chance to study is evident. Thus we see Theta Tau chapters taking a mature attitude toward this important phase of college life, and we congratulate them upon their accomplishment.

Letters from the Chapters

ALPHA

The first event on the calendar of Alpha Chapter was the celebration of Founders' Day. We held our annual Founders' Day Banquet in the recently remodeled Minnesota Union on Friday, October 14. Brother Ed Young, '25, acted as toastmaster. By way of introduction, each man presented the man on his left; this gave the actives a good chance to get acquainted with some of our alumni who are not so often seen. After the more humorous part of the program, Dr. Holman, Honorary, gave us a very inspiring talk on "Courage in Facing Life as It Is Today".

The present officers of Alpha are: Regent, George Brimhall; Vice-Regent, Marvin Sedam; Scribe, Allan Hutchings; Treasurer, Henry Rahn; Inner Guard, Wesley Johnson; Outer Guard, Sidney Mitchell; Marshal, Warren Fox; Corresponding Secretary, Roger Bossen.

Alpha has an active membership of twenty-one, and two pledges, Floyd Robbins and Ward Thompson. Right now our biggest job is to get more pledges, as twelve of our active members will graduate this year. A short while ago, we held a smoker at the chapter house for the freshmen miners; while it was not particularly well attended, it gave us a chance to spot a few good men.

Omicron Chapter invited Alpha down to Iowa City for the Homecoming Game between Iowa and Minnesota on October 22. Eight of the boys from Alpha made the trip; all who went enjoyed the friendship and hospitality of the Iowa men. The men all returned safely in time for classes Monday morning.

By the way, along about the end of last Spring Quarter, nine Alpha men enjoyed another of Alpha's annual canoe trips up the Saint Croix River.

The men are enthusiastically entering the touchball and volleyball competition this Fall. We are looking forward to a very successful basketball season this Winter, since we have with us again this year all the men who played on our last year's championship team. This year we are represented on Minnesota's football squad by Brother Louis Gerischer, who plays tackle. He had a chance to see a little real action in the Iowa and Dakota games.

In our recent Annual University Elections, several Alpha men won out. Brother Harold Christoph was elected president of the senior class in the Mines School. Brother Marvin Sedam was elected representative on the All-University Council from the School of Mines. Brother George Brimhall is now president of the Minnesota Society of Aeronautical Engineers. Brother Charles Britzius was elected to the Board of Publications from the Engineering College. By the way, "Chuck" has now been captain of the University Tennis Team for two years in succession. He has also won high honors in many tennis tournaments.

At present we have quite a bit of Tau Beta Pi material in the house; we expect to be represented in that organization before the end of this year. Last year, Brother George Weigel, a senior Civil, was elected to Tau Beta Pi. We are now represented in Pi Tau Sigma by Brother Morris Knight. Brother Henry Rahn was just this quarter elected to Phi Lambda Upsilon, honorary chemical fraternity. Brothers Wesley Johnson and Roger Bossen were elected to Phoenix, an all-University Men's honor society in the Junior Class. Last year Brother Clifford Anderson had the honor of being one of the twelve men elected to Plumb Bob, a Senior engineering honorary group. Also, last year Brother Loren Neubauer, '26, now an instructor in mathematics at the University, was elected to Sigma Xi.

In the year 1931-32, we ranked second scholastically among the professional fraternities on the campus with a rating of 1.331. We are, of course endeavoring to better this standing, and hope to be in first place next year.

Brother Lawrence Oberg is back with us again this year; after staying out of school for a year, he is back as a Senior in the School of Mines. Brothers Roy Dynesius, Herbert Erickson, and George Hupp did not return to school this Fall; we hope they will be with us again in the Winter quarter, or if not, surely by next Fall.

We were happy to have Brothers Albert Hall and Richard Marquardt from Omega Chapter with us for Minnesota's Homecoming.

Various members of Alpha who were foot-loose during the past year and got around a little, wish to thank the members of Zeta, Lambda, Omicron, Sigma, Phi, and Omega Chapters for their hospitality.

Alpha sends very best wishes to all.

Yours in H. & T.,

ROGER G. BOSSEN

Minneapolis, Minnesota, November 1, 1932

BETA

With only fifteen active members, Beta has started another year. At the Spring initiation, the following men were initiated: Russell C. Anderberg, Chemical '34, Grand Rapids, Mich.; Lloyd S. Campbell, Electrical '33, Ironwood, Mich.; William J. Collins, Jr., Chemical '33, Iron River, Mich.; and Harold E. Wilson, Electrical '33, Detroit, Mich.

Election of officers was held last Spring and the following men were elected: William R. Atkins, Regent; James L. Wilson, Vice-Regent; A. Lawrence Johnson, Scribe; James S. Westwater, Treasurer; Courtney Walker, Marshal; Robert A. Angst, Inner Guard; and Sharon Walz, Outer Guard. Due to the fact that Brother Walker did not return to school this Fall, Brother Charles W. Hawn was appointed Marshal.

Beta is quite proud of having won both the Scholarship Award and the R. O. T. C. Trophy last Spring. The Scholarship Award is the award given annually to the class or fraternity having the highest scholastic average. The R. O. T. C. Award, given for the first time last year, will be made annually to the organization on the campus which has the highest rating in the R. O. T. C.

This year we are represented in Tau

Beta Pi by Brothers Williams and Foster.

Brothers Atkins, Webb, and Walz are members of Tech's varsity football team of which Brother Williams is manager. We are represented on the basketball squad by Brothers Webb, Angst, and Walz. Last Spring, Brother James Wilson was track manager with Brother Collins as his assistant. Last year all of the members were very active in working for the Intramural Cup which we lost by a few points. This year our outlook is not quite as bright due to the small number of men in the house, but the pledges seem to show athletic ability.

In campus activities, Beta men hold the following positions: Anderberg—Secretary-Treasurer of Junior Class and Vice-president of Catalyzer Club; Angst—Secretary of Blue Key and Cadet Lieutenant in R. O. T. C.; Collins—Assistant Business Manager of Mich. Tech Lode; Foster—Treasurer of Blue Key; Johnson—Business Manager of Mich. Tech Lode and Cadet Captain of Governor's Honor Guard, R. O. T. C.; Walz was Cadet Lieutenant in R. O. T. C.; Westwater—Head Cheer Leader and Managing Editor of Mich. Tech Lode; Williams—President of Electrical Club; and H. Wilson—President of Y. M. S. C. A.

The members have been working very hard in securing pledges. The old method of waiting until after the Christmas Holidays to start pledging has been temporarily changed to preferred rushing. At present, we have five pledges. They are: Oran O. Price, Jr., Chemical '33, Port Huron, Mich.; Tom Watson, Chemical '36, Ironwood, Mich.; Joe Albert, Mining '36, Casper, Wyoming; Donald Smith, Civil '33, Mt. Pleasant, Mich.; and Vic Steffick, Mechanical '36, Lena, Wisconsin.

Founders' Day was observed by a banquet at the house; all the active members and fourteen alumni were present. Prof. Fisher gave a talk on his trip to Switzerland where he attended the International Mathematicians' Congress.

Last Spring, the initiation banquet and a dance were both held at the Onigaming Yacht Club. So far this year, we have had one party, a Hallowe'en Party at the chapter house.

Brother Foster, star track man and captain for two years, was lost to the track squad by graduation last year, but is back with us working for a Mechanical Degree. James Brophy, '31, is back to take Metallurgy research.

Brother Pepin, '32, won the Metallurgy Award which is given annually to the Michigan Tech Metallurgy Senior who has the highest scholastic record. The prize consists of one hundred dollars in cash, a key, and a plaque with the winner's name engraved upon it (this plaque being hung in the college clubroom). Brother Pepin also won the University of Michigan State Fellowship. This scholarship is given to a graduating engineer and enables him to attend the University of Michigan to obtain a Master's Degree.

In conclusion, Beta Chapter extends its heartiest greetings to all other chapters of Theta Tau.

Yours in H. & T.,

RUSSELL C. ANDERBERG

Houghton, Michigan, Nov. 12, 1932

GAMMA

Gamma Chapter has planned a very active program for the coming year.

A series of informal addresses have been arranged to be given at dinner meetings held once a month. These talks are to be given by prominent engineers, representing various fields of engineering.

It has been our good fortune so far to have been able to hear Mr. Jones, of the State Highway Department talk on the subject of highway construction and the growing traffic problems.

Mr. Miesser of the Reclamation Bureau and Assistant Engineer in the Testing Laboratory in Denver for the Hoover Dam Project, presented a very detailed discussion relating to the "Thermo-dynamics of Concrete".

It is our plan to have more of these men on our program in the future.

The new officers elected for the year 1932-33 are the following: Regent, P. G. Sharp; Vice-Regent, R. E. Johnson; Treasurer, K. Beierly; Scribe, L. W. LeRoy; Marshal, W. Rump; Inner Guard, E. Norman.

The men pledged for the first semester are as follows: K. Daggett, C. Towle, R. Harrison, J. Briggs, W. Welch, M. Tilsey, J. Ross, L. Larson, E. Kingman.

Gamma Chapter has been well represented in the various Honorary and Scholastic Fraternities on the campus. In Tau Beta Pi, we are represented by: E. Norman, N. O. Johnson, R. Harrison, M. Volin, and M. Gardner. In Blue Key, a campus activity fraternity, we have: P. G. Sharp (President), F. Lindemen, W. Welch, C. Towle, and T. Giggey. In Scabbard and Blade, National Honorary Military Fraternity, we have: P. G. Sharp (President), M. Gardner, W. Rump, R. E. Johnson, N. O. Johnson, L. W. LeRoy, and F. Lindemen, as members.

Yours in H. & T.,

L. W. LeRoy

Golden, Colorado, November 14, 1932

DELTA

Delta Chapter wishes to extend fraternal greetings, by means of the pages of the Gear, to all Brothers in Theta Tau. Delta Chapter has begun this year with a small, but unusually active group, on the campus.

The officers installed at the regular meeting of the last school year were as follows: Regent, Brother Millard R. Bell; Vice-Regent, Brother William C. Jenner; Scribe, Brother Charles F. Pogacar; Treasurer, Brother Louis B. Moore; Marshal, Brother Robert T. Campbell; Corresponding Secretary, Brother Charles J. Hunter; Inner Guard, Brother Samuel B. West; and Outer Guard, Brother Mauno O. Backlond.

Five of the Brothers of last year's graduating class, the Class of '32, were honored by receiving membership in Sigma Xi. The men in Tau Beta Pi at present are T. E. Dyke and C. F. Pogacar, and the pledges include R. A. Harrington and W. C. Jenner.

A number of our men are prominent in athletics. Brother T. E. Dyke is one of the mainstays of Case's Conference Championship-bound eleven. Not only is he prominent as a halfback on the gridiron, but is also a member of the tennis doubles team,

which came on top in the Ohio Conference Tournaments. His athletic prowess also includes the basketball court, where much is expected of him this winter. Another one of our Brothers, who is helping to make the football team what it is, is Brother F. A. Cerness, a dependable end. Connected indirectly with football is Brother Samuel B. West, our Senior Cheerleader, who is responsible for the rush for Listerine after the games. Brother West is also Wrestling Manager. Brother William C. Jenner is President of the Case Athletic Association. Brother Millard R. Bell, the State Champion Wrestler of 1932, is expected again to repeat his last year's performance on the mat. Brother Louis B. Moore, a letter-man in basketball, will undoubtedly retain his position at center this coming season. And last, as far as athletics are concerned, our chapter is represented in Gamma Phi, the honorary gymnastic fraternity, by Brother Charles F. Pogacar, President of the organization, and by Brother Jenner, Vice-President. Brother Pogacar is also Manager of the Tennis Team.

The men having achieved distinction in other extra-curricular activities are: Brother Bell, Editor of the class annual; Brother Moore, Senior Class President, and a member of the Glee Club; Brother Pogacar, Chairman of the Boost Case Committee; Brother Hunter, Intramural Sports Manager; Brother Harrington, lay-out editor of the weekly publication; Brother Cerness, member of the Glee Club and swimming team; and Brother Campbell, who is also in the Glee Club.

Although the total number of actives in our chapter includes only fourteen men, we are operating as a healthy and successful chapter should.

In closing, Delta Chapter extends to all Chapters, its best wishes for the remainder of the year.

Yours in H. & T.,
C. F. POGACAR

Cleveland, Ohio, November 14, 1932

EPSILON

Epsilon Chapter has maintained its solvent state and has been having a successful year thus far. The following men were initiated this Fall: John Allen, William Badt, Robert Coates, Don Corey, C. Durrell, Jack Hays, James Hogle, George Ristrem, Roger Smitten, and David Straub.

The policy of lunching together at regular intervals has been continued with the change that during the present semester the luncheons have been held at various fraternity houses on the campus. A peak in the year was the semi-annual banquet which was held on October 22, following the formal initiation of the new members. Fifty-two Brothers appeared, and the banquet was even more successful than normally. An outing has been planned in the not distant future.

Brother Strutzel has been elected to Tau Beta Pi and Brothers Turner, Durrell, and Bramkamp have become associate members of Sigma Xi. Epsilon has been well represented in athletics this semester by Brothers Hogle, Ristrem, and Strutzel in hockey; Brothers Ristrem, and Straub in boxing; and Brother Tower in basketball.

The following officers are serving this semester: R. E. Turner, Regent; R. O. Van Fleet, Vice-Regent; R. E. Baker, Scribe; T. J. Fitzgerald, Treas-

urer; and R. A. Bramkamp, Corresponding Secretary.

The Chapter was glad to welcome the return this semester of Brother Phillips, all-American, who assists the freshman coaching staff in addition to his scholastic efforts.

Brother Erich Schrader paid a recent visit to the Chapter. Among the alumni who have passed through the campus recently have been Brothers Koch, Quindt, McGuire, Sharpstone, Lloyd, Etherington, Stevenson, and Ross.

Epsilon extends its greetings to the other Chapters of Theta Tau.

Yours in H. & T.,

R. A. BRAMKAMP

Berkeley, California, November 14, 1932

ZETA

Zeta started the fall semester with sixteen active members and eleven pledges. We lost ten men through graduation at the end of the spring semester, but with every member working hard to get new men, we hope it won't be long until we make up for the ones lost.

Sunday, November 6, we held the initiation ceremony for the following men: James Smith, '35; George Stephens, '33; Fleming Scofield, '35; Ford Kickie, '35; Maurice Bruzelius, '33; and Donald Stark, '34. While on probation these men proved themselves worthy of the H & T badge. After initiation, we held our Annual Founders' Day Banquet which turned out to be a real feast. We were honored by having Jamison Vawter, the Grand Treasurer, as our guest over the week-end. Professor Vawter graduated from Kansas University in 1916, and we hope he felt at home again.

Last year Zeta ranked second highest in scholastic standing of all fraternities on the "hill", only to be beaten by Alpha Chi Sigma, national chemical. We have aspirations of beating them this year.

We held our fifth annual smoker on October 6, and a large crowd of freshmen engineers was present. We are convinced that it offers the best means of making a good contact with the freshmen.

Since the publication of the last GEAR, we are proud to announce the pledging of the following men: Carl Kindvater, C. E., '35; Riley Woodson, M. E., '35; Charles Spahr, C. E., '34; Frank Pittman, Ch., '35; and Dana Pratt, E. E., '34.

So far this year, we have had a large number of alumni visitors back for homecoming and the Founders' Day Banquet. They are George Hughes, Frank Baxter, "Tip" King, Phil Benz, "Doc" Faust, Ash Galbreath, Alonzo Sluss, Harold Hilkey, Dennis Pearce, Alex Kennedy, Tom Hipp, Lynn Hibbs, Irving Coffman, Dan Bump and "Bill" Patterson.

We are well represented in activities on the "hill" having members in every important organization in the engineering school, namely: Tau Beta Pi, Sigma Tau, Student Council, Sachem, Owl Society, A. S. C. E., A. S. M. E., A. I. M. E., A. I. E. E., Scabbard and Blade, Mortar and Ball, Engineering Council, and Student representatives.

At the Bi-Annual Sigma Tau Convention held in Rapid City, South Dakota, on September 26-28, 1932, we

were represented by Gene Manning. Gene had the privilege of staying at the newly affiliated Omega Chapter of Theta Tau while in Rapid City.

A date has been set for our annual "Red Dog Inn" party on December 3, and we are sure of a good orchestra. Nearly all of the fellows have made their dates and we are looking forward to a fine time.

Yours in H. & T.,
CLAYTON OTT

Lawrence, Kansas, November 8, 1912

THETA

With the opening of school this year, ten active members returned to Theta Chapter, five of last year's members having graduated and two others not returning to the Engineering School. The present officers are: Norman Hixon, Regent; Prescott Blatterman, Vice-Regent; J. Walter Olstad, Scribe; and W. Cottontail Stringer, Treasurer. At present, we have pledged the following five men: Richard O. A. Petersen, Frank M. Weir, Winton A. Ticknor, William B. Pegram, and Arthur J. Gloster.

The main concern of the chapter is now rushing, in which we are busily engaged. We have in prospect from five to ten more pledges. The initiation is tentatively scheduled for the ninth of December, to be followed by the customary banquet.

One of the activities that has always been a pleasant feature of this chapter is our weekly Friday luncheons held on the campus. These are eagerly attended not only by the active members and pledges, but also by a number of our faculty alumni.

The Chapter plans to spend a grand week-end together at Camp Columbia when the weather turns somewhat colder and winter sports are in order. Camp Columbia is the engineering camp located in Connecticut about one hundred miles from New York.

Of the present Chapter, Brothers Blatterman, Ludeman, and Hixson are members of Tau Beta Pi and two of our pledges, Ticknor and Weir, have recently been elected.

On the evening of November 10, we were greatly honored by the presence of Grand Regent Coffman at one of our formal meetings. It was very pleasant for us to make the acquaintance of one of the leading men of our national organization who had, heretofore, been only a name to most of us. We sincerely hope that any of the Brothers who may happen to visit New York City will, likewise, give us an opportunity to become acquainted with them.

Yours in H. & T.,
J. WALTER OLSTAD

New York, N. Y., November 10, 1912

IOTA

Under the starting gun of Brother Erich J. Schrader, Iota Chapter is off to a very good start, and we hope to have a star year. There are sixteen actives in school this year.

The following men were pledged: J. L. Swalley, Baxter Springs, Kansas; W. W. Coghill, Rolla, Mo., G. H. Musson, Kansas City, Mo., L. S. Sullentrup, Washington, Mo., K. F. Sheckler, St.

Joseph, Mo., W. R. Springer, Kansas City, Mo., L. A. Hibbets, Desloge, Mo., Lee H. DeWald, Aurora, Ill., C. J. Wenger, St. Louis, Mo., O. C. Garst, Rolla, Mo., M. Murray, Rolla, Mo., E. C. Kozeny, St. Louis, Mo., S. R. B. Cooke, Thawes, New Zealand; A. R. Helmkamp, Moro, Ill., J. D. Martin, St. Louis, Mo., and M. G. Handly, Rolla, Mo.

The officers of Iota Chapter are as follows: Regent, Hesse; Vice-Regent, Westerfield; Treasurer, Parker; and Scribe, Irwin.

The annual pledge dance was given on November 4 at the Mercier Club. About eighty attended and helped make the dance a gala affair.

We are represented in Tau Beta Pi by Braeutigam, Richmond, Musson, Martin, Coghill, Helmkamp, and Westerfeld, who was elected as the Ranking Junior.

Politically, we have six men on the Senior Council and are well represented on the St. Pat's Board, having four members and they are working hard under the guidance of Brother Gross to make this year's celebration even greater than it has been in past years. St. Pat's is a three day affair and it is the big time of the year, starting early Thursday night and ending in the wee hours of Sunday morning. The Fair Sex are representatives from here, there, and everywhere, but who wouldn't come a long way to dance to the music of such orchestras as Slatz Randall and Jan Garber?

That hurricane tearing around end for all those gains is none other than Art Williams. Richmond should also be named not only because of being a good left end but also because he is the Cadet Adjutant of the R. O. T. C.

Iota holds a banquet twice each month at the Edwin Long Hotel. Everyone is encouraged to join in the after-dinner speeches. The banquets are the major activity of the Chapter, and it is needless to say that they are enjoyed by all. Frequently a noted speaker attends and gives his views of the Engineering profession.

Iota Chapter has been striving to attain an initiation program that will reflect the desires of Theta Tau. Each pledge is given a subject connected with his field of engineering, and he is required to give a short talk and answer questions that arise.

We also have with us Brother Alexander Gow, Alpha, who is acting as chapter advisor, Brother Kerr, Zeta, and Brother LaFollette, who has returned to school this year.

Iota Chapter wishes all Brothers a Very Merry Christmas and a Happy New Year.

Yours in H. & T.,

WALTER J. IRWIN

Rolla, Missouri, November 13, 1932

KAPPA

Since the last issue of THE GEAR went to press, Kappa Chapter has come to the foreground among activities of varied character.

To begin with, the Spring dance was held in conjunction with Sigma Tau and Scarab. This is the first time a combined dance of the three fraternities has ever been attempted on our campus, and was found to be quite successful, thanks to the kind hospitality of Sigma Phi Epsilon.

Eight worthy neophytes came through hungry hollow to be re-

warded with membership to Kappa Chapter. They are: V. G. Kaufman, H. S. Shott, B. B. Josi, C. E. Missman, G. O. Pohl, A. H. Beasley, R. A. Forsberg, W. F. Barnes, and J. H. Braddish, all of whom have returned to school this year, with the exception of A. H. Beasley, who now addresses himself at Purdue University. A fine time was had by all at the informal initiation, and we look forward to another chapter in our history, in the near future.

Immediately after the formal initiation, elections were held for this year's officers who are: Regent, A. C. Nauman; Vice-Regent, C. R. Woodfill; Corresponding Secretary, E. E. Stephens; Treasurer, J. C. Wheeler, Marshal, V. G. Kaufman; and Scribe, Andy Kleszewski.

The Faculty members have added to the interest of the meetings by turning out each first and third Thursday of the month in good representation, principally Profs. King, Vawter, Putnam, Doland, Shedd, and Mr. Dolan. Among our faculty members, Prof. W. M. Wilson is carrying on with good results his Reinforced Concrete Arch Investigation; Prof. Jamison Vawter has been reelected to Presidency of the National Inter-Professional Fraternity Council; Prof. W. J. Putnam has been very active in the

BOTTOM ROW—W. Barnes, Prof. T. C. Shedd, Prof. E. E. King, A. C. Nauman, Prof. J. J. Doland, G. O. Pohl, E. E. Stephens
SECOND ROW—R. A. Forsberg, W. Hoffman, F. Mac Bride, L. Arning, G. Lauer, J. Watts
THIRD ROW—W. Patnkar, A. Bennett, A. Kleszewski, J. Wheeler, R. Hatton, R. Jones
TOP ROW—V. G. Kaufman, C. R. Woodfill, R. M. Young, B. B. Josi, C. E. Missman, A. B. Barbour

Prof. T. C. Shedd

testing laboratory, conducting tests on everything from pie crusts to welded steel sections; Prof. J. J. Doland is active in the A. S. C. E., being on the national committee for Student chapters; Prof. T. C. Shedd has just finished a book on "Elements of Structural Steel Design", a practical handbook for all structural engineers. Last year, Profs. Shedd and Vawter collaborated in writing, "Theory of Simple Structures". Mr. T. C. Dolan, "Tommy" to us, received his master's degree in C. E. last June. Brother Jarvis, after completing his six months' study in Europe, on a Beaux Arts Scholarship, has returned to Champaign to become a member of the faculty of the Architectural Department.

Our Active chapter continues to be

Editor of the "Technograph", the engineering publication. Brother Nauman was elected secretary of the A. S. C. E., and Lieutenant Colonel of the Coast Artillery Unit of the R. O. T. C.; and Brother Mast Lieutenant Colonel of the Engineers Corp. Brother Pohl is the Captain of the Illinois Rifle team.

Among the honoraries, we find in Tau Beta Pi, Brothers Stephens and Mast; in Chi Epsilon, Brother Kaufman; in Eta Kappa Nu, Brother Wheeler; in Gargoyle, Brothers Mast and Wares; in Pi Tau Sigma, Brother Jones.

Brother Arning is our athlete, bringing home the bacon for the track team and earning his "I" last spring.

Brother Fraps has co[illegible]

Mobley, William Murphy, Richard Nolde, Read Saunders, Walter Smith, and William Walker.

At the beginning of the year, plans were laid for the publication of "Mu's News", our chapter news-letter. Copies of this paper will be sent to all other chapters and to the alumni and actives of Mu Chapter. Brother Powell Bennett has been placed in charge of this work, and he would appreciate any notes of interest that any alumni might send in for later issues of "Mu's News".

Mu's membership is made up for the most part of men who are active in many extra-curricular organizations. We have five men on the Honor Committee of the College of Engineering. All the officers of the Senior Class are Theta Tau's. We have several men in Tau Beta Pi, Phi Eta Sigma, Chi Beta Phi, and Gamma Sigma Epsilon. Mu is also represented in Omicron Delta Kappa, Blue Key, Sigma Xi, and Scabbard and Blade.

At the annual St. Pat's Day Banquet, we plan to award the Theta Tau Cup, which is presented to the most outstanding member of the Senior Class, as determined by a committee of faculty members. This honor is considered one of the highest that can be bestowed upon a member of the graduating class.

To promote the friendly rivalry which exists between the School of Commerce and the College of Engineering at Alabama, we consented to play Delta Sigma Pi, international professional commerce fraternity, in a game of touch football. The engineers were victorious by the score of 12 to 6, and it was a day of much rejoicing around Comer Hall.

In closing, Mu Chapter extends fraternal greetings to all chapters in Theta Tau.

Yours in H. & T.,
W. R. PURCELL.

University, Alabama, November 14, 1932

NU

Nu Chapter has been rather slow

watch its expenditures this year and

student branch of the A. S. M. E. In the field of sports, Nu Chapter is well represented also. Red Jones has been playing a bang-up game as first string center on the football team, Bobby Smith is beginning practice as captain of the basketball team, and Harold Neff has just completed his fourth year of cross-country.

Calls have not been made as yet to the various Honorary Fraternities on the campus, and so it is impossible to name the Theta Tau men who have received such distinctions. It is safe to say, however, that Nu Chapter will, no doubt, have its share of men called from the speaker's stand on the annual Carnegie Day.

There has not been any pledging yet this year, but the entire chapter is looking forward to the informal initiation at which the Brothers and Brothers-to-be will probably freeze.

Yours in H. & T.,

WILLIAM J. BURNS

Pittsburgh, Pennsylvania, November 11, 1932

OMICRON

This year finds Omicron firmly located in its new home at 4 East Market Street, Iowa City, Iowa. The new house was rented for its location and size, as it amply meets our needs. In our new home we are being led by Regent Donald Niemeyer and Steward John Rohwedder. There are twenty actives this year, two of the men from last year failing to return. These are: Brothers Clifford Metz and Kenneth Hamilton. We have three pledges who answer to the names of Vincent Allison, E3, Edmund Jeffrey, E1, and Donald Marstellar, E1.

We finished last year with the traditional Senior Farewell Banquet at the Red Ball Inn during the last week in May. Some weeks prior to that we initiated Adolph C. Topinka, Leslie Grigg, Wendell Thomas, and Howard Noble. Among other things we won the sectional championship in kittenball but lost out in the finals for Interfraternity championship.

Resuming activities where we left off last Spring, we opened with the big annual Homecoming Party at the Chapter House. Present were a large group of alumni and eight guests from Alpha Chapter. In athletics, we have entered the tennis tournaments, and presently interfraternity basketball will be started. We are confident of matching last year's record and adding a few more trophies. However, we are not all athletes for we have Brother Pritchett serving his third year in the University band.

Several of our brethern were recently honored. Brother Clearman was elected to A. F. I., R. E. I., and appointed business manager of the Transit; he is also a member of the varsity football squad. Brother Kringle was elected captain of the gym team. Brothers Cerny and Kehe were elected to Tau Beta Pi, while the former and Brother Phelps were also elected to R. E. I. with Brother Clearman. Brother Henry P. Evans, Nu Chapter, came here this year to do advanced work in Hydraulics.

Cupid was quite active this summer. That little matchmaker added to his list the names of Harold E. Wickham, Lewis T. Long, and Duane C. McCann. The Chapter extends congratulations to them and its appreciation for the cigars yet to come.

Omicron wishes to thank all alumni and Brothers in Theta Tau for their letters, and hopes that many more letters will be received this year. We also wish to extend greetings and sincere wishes to all other chapters and alumni.

Yours in H. & T.,
HENRY J. KEHE

Iowa City, Iowa, November 13, 1932

PI

Pi Chapter began the current session with eighteen active members and is anticipating a most successful year.

On November 18, the following pledges will become members of Theta Tau: W. P. Kennedy, Alexandria, Virginia; Douglas Kendall, Valley Cottage, New York; T. J. LoCasio, Norfolk, Virginia; C. C. Bailey, Charlottesville, Virginia; H. B. Edwards, Sweet Briar, Virginia; R. B. Holmes, Ridgewood, New Jersey.

Brother Stahl has been chosen Regent of Pi Chapter due to the fact that Brother Pollard, whose election to the office of Regent was announced last Spring, failed to return to the University. Brother Dunnington succeeded Brother Stahl as Vice-Regent.

Pi Chapter is pleased to announce that Brothers Dunnington and Palmer have been elected to membership in Tau Beta Pi. Brothers Gard and Doswell are at present members of that society.

When the results of the annual election for the executive officers of the Engineering Department were made known, it was found that the Theta Tau Ticket had won a sweeping victory. Brother Gard was elected president of the department, Brother Doswell, vice-president, Brother Stahl, secretary, and Brother Hancock, historian.

Pi Chapter wishes to thank the other chapters for the interesting news letters received and extends to all the chapters best wishes for a most successful year.

Yours in H. & T.,
JACK DOSWELL

University, Virginia, November 15, 1932

RHO

Rho extends her heartiest greetings to you. Rho is preparing for another successful year with hopes that each year may be better than the preceeding one.

The Brothers back this year are as follows: L. G. Atkinson, Regent; A. R. Lippard, Vice-Regent; L. F. Yost, Scribe; L. D. Murphy, Treasurer; T. J. McKenzie, Marshal; W. C. Tulluck, Inner Guard; J. L. Pleasants, Outer Guard; M. D. Thomason, Corresponding Secretary; J. W. Coffey; T. A. Rydingsvard; B. B. Petroff; R. E. Tew; J. A. Royal; R. A. Bradshaw; E. L. Rivenbark; W. G. Thompson; and M. L. Beadley.

Our annual Fall Smoker was held November 9. From the group attending, we expect to select about ten new men, who will increase our roll to twenty-seven active members.

Rho Chapter is well represented in every organization on the campus. We have six men in Tau Beta Pi, are represented in the House of Student

Government, Scabbard and Blade, Order of 30 and 3, Sigma Pi Alpha, Interfraternity Council, Pine Burr Scholarship Society, Phi Eta Sigma, Engineers Council, A. I. E. E., A. G. C., A. S. M. E., A. S. C. E., and the Aeronautical Society. Nearly every Brother is an outstanding member of his respective organization.

At the present time, our plans are to foster Engineering addresses to the Engineering school at large, and to try to revive the Rho News Letter that has been dead for several years. If the alumni will furnish us with news and their addresses, the letter will have a good chance of succeeding. If you will help, this part of our program will be a permanent success and will be a decided asset to us all.

Rho wishes you a pleasant and successful year.

Yours in H. & T.,
MAX D. THOMASON

Raleigh, N. C., November 12, 1932

SIGMA

School opened this year with the usual confusion. Many of the Brothers were not back which was due largely to "old man depression". For this reason, the house is rather sparingly settled—nine actives and four pledges.

Officers were elected at the end of the Spring quarter. Brother Rudin was elected Regent but due to pressing scholastic obligations relative to his thesis, he resigned two weeks after school opened this Fall. At a re-election, Brother Buckley was elected Regent; Brother G. Dumbauld, Vice-Regent; Brother Fischer, Treasurer; Brother Hacker, Scribe; and Brother Sanders, Marshal.

Initiation was held during the week of November 4. Eight men were initiated into Sigma Chapter. The initiates are as follows: M. O. Jensen, J. F. Craig, W. C. Fischer, F. P. Marquis, A. R. Morrison, L. A. Knappe, J. M. Bowen, and F. W. Wagner. These men were initiated on November 5 at midnight. Three past regents assisted the present officers in the ceremony. On Sunday, November 6, a banquet honoring the new initiates was held at the Charminel Hotel. Brothers Ott and Marquis of the faculty gave short talks.

Last Spring, graduation saw Brothers Local, Simon, Wolfe, Messner, Moyer, Osborn, Cole, and Baxa leave the fold to face the world, some with the added inducement of a wife spurring them on. These men left quite a hole in the active chapter. However, since initiation it is back to normal with twenty-three actives.

On Homecoming Day here at Ohio State the Chapter gave a dance. We had intended giving the dance at the house, but due to the large number of alumni returning we had to move it down town. Brothers Local, Simon, Wolfe, Osborn, Davis, Spangler, Trout, Fiedler, and Altvater were among the old grads present.

Brothers Craig, Jensen, Hacker and Pledge Wideman were pledged to Scabbard and Blade, honorary military fraternity. Jensen, one of the new initiates, ranked as one of the three high men scholastically in the Interfraternity President's Council's rating of last year's pledges. Brothers Craig, Jensen, Dumbauld, Gagnier, Kale, and Pledge Wolford are being considered by Tau Beta Pi at their Fall election.

Pledge Moore is being initiated into Kappa Kappa Psi, honorary band fraternity.

The Chapter is observing Founders' Day of Sigma Chapter with appropriate ceremonies on November 29. The program will include talks by several of our faculty members.

Among the outside activities entered by Sigma Chapter is included a musical comedy production sponsored by the Engineer's Council which is to take the place of the old Engineer's Roundup. Quite a large number of the brothers and pledges are slated for prominent parts in the cast and production staff.

Brothers Wagenhals, Hohenshil, Rudin, Hageman, Messner, Gagnier, and Armington announced their marriages recently. Sigma Chapter wishes them the best of luck on this new undertaking. We're patiently waiting for some similar announcements from some of the other brothers.

Yours in H. & T.,

A. R. HACKER

Columbus, Ohio, November 11, 1932

TAU

Tau Chapter extends fraternal greetings to all Brothers in Theta Tau. Fourteen active members have returned to school this Fall. At the Spring initiation, which was held at "Shore Acres" on the shore of the beautiful Cazenovia Lake, the following men were initiated: Edward Yehle, M. E. '33; Howard Avery, M. E. '33; William Hourigan, M. E. '33; Edward Dutrwachter, M. E. '34; and James Jerry, E. E. '34. Initiation was followed by a banquet at which several toasts were given by faculty and student members of Theta Tau.

Tau Chapter has held four meetings this year. Two of these have been regular business meetings, the other two informal rushing parties. At the first meeting, plans were made for the Fall semester. We voted to hold meetings every two weeks and to secure either faculty or student or alumni members of Theta Tau as speakers. So far we have listened to Brother Berry, Professor of Civil Engineering, who gave us a very interesting illustrated lecture on the "History of Oil" at our first rushing party, and to Brother Backman, C. E. '32, who explained the qualifications of becoming a licensed engineer, at our second rushing party.

From those attending the rushing parties, we have pledged ten men. They are: James Howard, E. E. '33; Harry Wolfe, E. E. '33; John Pierson, M. E. '33; Tony Spano, M. E. '33; Robert Case, M. E. '33; Henry Jones, M. E. '34; Charles Sherman, M. E. '34; Waldo Page, M. E. '34; Winston Hart, M. E. '34; and Edward Koch, A. E. '34.

The officers of the chapter for this year are: "Herm" Klotz, Regent; "Pat" Thayer, Vice-Regent; Carleton Garrett, Scribe; "Res" Moulton, Treasurer; "Andy" Paucek, Marshal; "Woody" Wood, Inner Guard; and "Georgie" Lewis, Outer Guard.

Many of Tau's members have attained scholastic honors. Brothers Klotz, Brightman, Hourigan, and Garrett are in Tau Beta Pi; Brothers Klotz, Hourigan, and Garrett are in Pi Mu Epsilon.

In extra curricular activities, we are well represented, too. Brother

Klotz is the representative to the Student Senate from the Engineering College. Brother Thayer is drum major of the university band. Brother Paucek spends his spare time playing soccer. Brothers Yehle and Thayer are officers in the R. O. T. C. Brother Wood plays a clarinet in the university band. Although Tau Chapter has entered no teams in intramural sports, many of its members are taking an active part in them through class teams.

Tau Chapter extends to all chapters its best wishes for a successful year in Theta Tau.

Yours in H. & T.,

CARLETON T. GARRETT

Syracuse, New York, November 12, 1932

UPSILON

Theta Tau on the campus of the University of Arkansas has a record this year that it feels it can be proud of, in the leadership displayed by its members. Brother Alex Diffey was chosen by a faculty committee, before his graduation last year, to be the most outstanding engineer for the year.

This year the members holding student offices are: Brother Edwin Dean, Marshal, Editor of the "Arkansas Engineer", and president of the local chapter of Kappa Kappa Psi; Brother Guy Kirkley, Regent, and chairman of the local branch of the A. S. C. E.; Brother Dick Cope, Vice-Regent, treasurer of the General Engineering Society, and president of the local chapter of Lambda Chi Alpha; Brother Robert Atkins, president of the General Engineering Society; Brother David Thornberry, vice-president of the G. E. S.; Brother Leon Hirshorn, secretary of the G. E. S.; Brother Russell McCauley, Tau Beta Pi, and chairman of the student branch of the A. S. M. E.; Brother Frank Clegg, president of the local chapter of Kappa Alpha; Brother John Carnahan, Alumni Editor of the "Arkansas Engineer", and president of the local chapter of Kappa Sigma; Brother Chester Dean, president of the Arkansas Booster's Club; Brother H. H. Lewis, Outer Guard, and a member of Tau Beta Pi; and Brother L. H. Pond, Inner Guard.

Brother Pond, who has been out of school for several years, has returned, as has Brother Hugh Nelson, who received his degree in E. E. last year and is now working on his master's degree.

Upsilon Chapter opened the year with twenty active members, and has since pledged five men: Robert Boyd, Gerald Rahlston, Ancel Wallace, Philip Hergit, and Robert Wagstaff.

Fraternally yours,

ROBERT L. ATKINS

Fayetteville, Arkansas, November 13, 1932

PHI

To Brothers in Theta Tau, greetings from Phi Chapter.

Another school year is well under way and our outlook is a very optimistic one. Due to a graduating class of eighteen men in 1931-32, our active roll is quite small, but it will be increased soon as we intend to initiate ten men within the next month.

Phi Chapter upheld its scholastic honors last semester, ranking third among the thirty-eight housed fraternities on the campus.

In athletics, we have not ranked as

we have in former years, but we are very fortunate in having with us Roy Horstmann who has made quite a name for himself in football annals.

At present, Phi is represented in Catalyst, Local Honorary of Chemical Engineers, by Brothers Lowry and Frew; in Pi Tau Sigma by Brother Winemiller; and in Kappa Delta Pi, National Honorary Educational Society, by Brother Chandler. Tau Beta Pi has recently pledged Brother Winemiller and pledgeman Kochman. Eta Kappa Nu has pledged Brother James and pledgemen Kochman and Horstmann.

On October 13, Phi Chapter celebrate Founders' Day by a banquet. The alumni were well represented as Purdue held its Homecoming on October 14.

The following men were elected to offices at the last election: G. M. James, Regent; D. E. Winemiller, Vice-Regent; M. R. Chandler, Treasurer; and E. D. Sandretto, Scribe.

In closing, Phi Chapter is always glad to receive Brothers from other chapters as well as their friends.

Yours in H. & T.,

E. D. SANDRETTO

West Lafayette, Indiana, November 10, 1932

CHI

Chi Chapter started the Fall semester with a peppy banquet at the University Commons, attended by more returning actives than the most optimistic predictions had led us to expect. In our ranks are three new members, initiated in the Spring: Eino Jacobson, George Paul, and Robert Bacon; Bacon, however, has been ill, and is unable to attend school this year, much to our disappointment.

We initiated last semester our first honorary member, Professor M. L. Thornburg, the total of our initiates to date now being sixty-eight. At present, we have no pledges, but we hope to remedy this soon, as we had a number of fine fellows at our first open meeting.

Our officers, already reported in the last GEAR, are: Frank Losee, Regent; Laurence D. Kelly, Vice-Regent; A. Earl Hamilton, Treasurer; Alvin W. Gerhardt, Scribe; and Gurdon M. Butler, Jr., Corresponding Secretary.

Our Founders' Day Banquet at the Santa Rita Hotel was a huge success. Eino Jacobson was Toastmaster, and several alumni attended. In the near future, we hope to have a joint smoker with Alpha Kappa Psi, commerce fraternity, to trade notes about things other than engineering.

Tau Beta Pi has elected the following men: Laurence Kelly, William K. Cloud, George Paul, and Edward Fraps. Another of our number, Gurdon M. Butler, Jr., is president of this organization and last month had a very interesting trip to Washington, D. C., as delegate to its annual convention. Kelly has also been doing fine work on the varsity football team, and Edward Novell is also on the squad. Our regent, Frank Losee, has just become a pledge to Phi Gamma Delta, general fraternity.

We recently received a letter from Erich Schrader stating that he expected to visit us, and we hope he comes.

In closing, Chi Chapter wishes all the chapters a very successful year.

Yours in H. & T.,

GURDON M. BUTLER, JR.

Tucson, Arizona, November 12, 1932

PSI

Psi Chapter extends greetings and best wishes to all the Brothers in Theta Tau.

We started the fall semester with eighteen active members under the leadership of Brother John M. Conrow, Regent; Brother Charles R. Trueworthy, Vice-Regent; and Brother Ralph J. Seideman, Scribe. Graduation took from us Brothers Ed Trueworthy, Kennth Sweeney, John Munzenrider, Richard Casey, John Steadman, John Blixt, and Richard Matthew.

The first week of school was devoted to the selection of suitable men. Brother E. S. Perry invited the chapter to hold its pledge party at his home. The invitation was accepted and on the evening of October 3, 1932, the following men were formally pledged: Harold Hosea, Robert Dietrich, R. Jess Smith, R. J. Woody, Justin Kelly, Raymond Murphy, Ettore Peretti, C. A. Wendell, and Theodore Malmsbury. After the meeting at Brother Perry's home, the members and pledges enjoyed a lunch at the Lockwood Cafe.

Founders' Day was observed by a dinner dance at the Hotel Finlen on October 15, 1932. Invitations were extended to all Theta Tau alumni living in the vicinity of Butte, Montana. Our first official observance of Founders' Day was a great success and will be one of the social events which will be looked forward to in years to come.

Brother Phillip J. Shenon, Epsilon, while enroute east stopped in Butte to renew acquaintances with the faculty of Montana School of Mines and members of Psi Chapter. Brother Shenon, a few years ago, was Assistant Professor of Geology at the institution.

The following is an account of some of the more active members for the school year: Charles R. Trueworthy, Ed. Bonner, and Ralph J. Seideman are president, vice president, and secretary, respectively, of the A. S. S. M. and of the Executive Committee. John Matter and John Sullivan are members of the Executive Committee, having been elected as representatives from the student body at large. John Rabbitt is Editor-in-Chief and William Given and Walter Hamilton are Associate Editors of the Magma, the annual school publication. William Finch is President of the Junior Class. R. J. Woody, pledge to Psi Chapter, is President of the Senior Class. In athletics, John Mullaney, John Matter, and Ed Bonner have received varsity "M" in football while John Sullivan, Ralph Seideman, and Charles Trueworthy have earned their "M" in basketball. Jack McAuliffe is President of the Dancing Club. From the preceding citations, one will realize that members of Psi Chapter are taking an active part in extra-curricular activities.

Plans are being made for the initiation of the pledges to take place on or about December 15, 1932.

Under a capable leadership and a strong following, Psi Chapter expects a very successful year. May we extend to all chapters of Theta Tau best wishes for a successful year in scholastic and extra-curricular activities.

Yours in H. & T.,

RALPH J. SEIDEMAN

Butte, Montana, November 2, 1932

OMEGA

The beginning of the school year found Omega Chapter with an active membership of fourteen. Two of last year's actives, Willis Olson and John Zeitlow, Jr., failed to return this fall. Zeitlow is now attending Trinity College in Connecticut. On Founders' Day the following men were initiated: Richard Doolittle, Harvey Held, Richard Grow, James Forchtner, Noel Gagstetter, Clarence Hill, Walter Black, William Mannick, thus bringing our active membership up to twenty-two. Most of these men are staying at the house and all are working hard for Theta Tau.

We now have seven pledges: Glen Wagner, Eugene Berry, Bernard Buus, Wallace Springer, Frank Bohak, Claude Worral, Emmet Bennett. The date for their initiation has not yet been set.

Scholastically, Omega Chapter ranks high. Our rating for last semester among the campus organizations was third. Twenty-one percent of the honor roll students for the first six weeks' period of this year were Theta Tau men. We take particular pride in two of our sophomores, Brothers Doolittle and Grow. Doolittle received the honorary Sigma Tau medal which is awarded to the sophomore having the highest scholastic average during his freshman year, while Grow's scholastic average in the freshman class was second only to Doolittle's. Three men, Brothers Hixon, Forchtner, and Nelson, were pledged to Sigma Tau this Fall.

Of greatest importance in the activities of Omega Chapter this Fall was our annual Founders' Day banquet given at the Alex Johnson Hotel in Rapid City. Since this was our first observance of Founders' Day, it was of particular interest to everyone in the fraternity. Brother Marquardt acted as toastmaster. Brother Al Hall reviewed the history of Theta Tau and the object and purposes of Founders' Day. A very interesting and instructive talk on the licensing of engineers was given by Professor Kammerman, honorary.

The First professional dinner of the year was given at the house a short time ago. Mr. Richard Lovale, a gradu-

TOP ROW—Paddock, Dahlgard, Holleman, Lampert, Seyler, Moulds, Evans, Young, Olsen, Northrup, Martin
SECOND ROW—Tarin, Moneheim, Kammerman, Schmeling, Duke, Zeitlow, Bieler, Purcell, Warren, McLearie, Rickets
BOTTOM ROW—Hegglund, Slaughter, Estrup, Marquardt, Hixon, Hall, Nelson, Harris

ate of the University of Nebraska, reviewed a trip made by him into the pitchblend district of Great Bear Lake, Canada. Judging from the interest taken in the first of these dinners their future success is assured.

Our representatives in extra-curricular activities are numerous. Al Hall is a member of the Senior Council. The office of president of the A. I. M. & M. E. is filled by A. L. Slaughter. R. D. Marquardt is vice-president of Sigma Tau, while A. L. Slaughter is treasurer of that organization. R. D. Marquardt is president and Clifford Hixon is vice-president of the "M" Club. In the junior class, Noel Gagstetter is president, James Forchtner is secretary and Ralph Nelson is treasurer.

Theta Tau men have shown up well in athletics. Francis Estrup is captain of the football team and three others are represented on the team. Indications are that several of our men will hold down positions on the basketball squad.

The present officers of Omega Chapter are as follows: R. D. Marquardt, Regent; Clifford Hixon, Vice-Regent; Francis Estrup, Scribe; A. L. Slaughter, Treasurer; Al Hall, Marshal; John Lampert, Inner Guard; Howard Hegglund, Outer Guard; Ralph Nelson, Corresponding Secretary.

In closing, Omega Chapter extends to all chapters its best wishes for a successful school year.

Yours in H. & T.,
R. W. Nelson

Rapid City, South Dakota, November 14, 1932

The July, 1932, Unicorn of Theta Xi indicates that they now have 710 life members, those who have paid $50 under the life membership plan.

Beta Pi Kappa, originally founded as a professional fraternity for Ceramic Engineering, is now listed with Sigma Gamma Epsilon as a professional fraternity for students of Geology, Mining, Metallurgy and Ceramic Engineering. It is listed as a competitor to Theta Tau and we meet it at a number of colleges at present.

The Delta of Sigma Nu for May printed the names of the 2800 life contributors, each of whom has paid $50.00 in full.

Sigma Chi reported 1747 Life Loyal Sigs in June, 1932

Lambda Chi Alpha had 97 Lambda Chis Forever in April, 1932, at $45.00.

Phi Gamma Delta had 470 Life Loyal Fijis in May, 1932.

Alpha Omega reported 39 lifers in June, 1932, at $35.00 each.

Triangle collected $1241 during the past year to bring its endowment fund to $3365.00. There are 126 full-paid life subscribers, and 29 who have made partial payments.

Alumni Notes

ALPHA

Walter Wheeler, '06, has been elected to the Reconstruction Finance Corporation.

Marvin C. Barnum, '11, is now working for himself in N. Y. City as a sales engineer in the air conditioning and ventilating field.

Paul A. Laurence, '11, attended the annual Founders' Day Banquet of Alpha. He is Superintendent of the Paul A. Laurence Construction Co.

John W. Lewis, '12, is at 1823 Monticello, Dallas, Texas.

Roswell W. Prouty, '12, who, for the last two years has been Consulting Mining Geologist for Tzvetmetzoloto (Soviet Nonferrous Metals & Gold Trust), has returned to the United States. His headquarters were at Allaverde and his activities extended over the Transcaucasus. His new address is 1223 Pacific National Bank Bldg., Los Angeles, Calif.

Max F. Quinn, '12, is now Manager of the Cubo Mine, and can be addressed at Apartado 49, Guanajuato, Gto., Mexico.

Rufus H. Milne, '14, is now with the Arden Salt Co., Foot of Pine St., Seattle Washington. His home address is 6810 20th Ave., N.E., Seattle, Wash.

Dan S. Helmick, '15, was back for Homecoming.

Geo. K. Urquhart, '15, is an Engineer for the Gardner-Denver Co., and can be addressed at 716 N. Ninth St., Birmingham, Ala.

Fred A. Davies, '16, is a Geologist, and can be addressed at 1709 Tower Pet. Bldg., Dallas, Texas.

Wm. E. Hubbard, '17, is a Geologist for the Humble Oil & Ref. Co., McCamey, Texas.

Carleton S. Wallace, '17, is Secy.-Mgr. California Ice & Cold Storage Co., Los Angeles, Calif.

Donald B. McGilvra, '18, can be addressed at 206 Tripp & Draystead Apts., Butte, Montana.

Lewis Arnold, '20, is at 2042 Yosemite Drive, Los Angeles, Calif.

Henri E. LaTendresse, '23, can be addressed at the African Rep. Case, Pomeroy & Co., N'Dola, Northern Rhodesia, Africa.

John L. Middleton, '23, can be addressed at Bambari, French Equatorial Africa, via Douala, Yaounde, Bangui.

Donald G. Brunner, '24, is a Mining Engineer for the Empire Zinc Co., Gilman, Colo., but his permanent address is 108 Fourth Ave., S. E., Minot, N. D.

Alva J. Haley, '25, can be addressed c/o Patino Mines, Llallagua, Bolivia, Peru.

Edward H. Hennen, '25, can be addressed c/o Erwin-Wasey Co., Graybar Bldg., New York City.

Everett B. Stevens, '25, attended the chapter's annual Founders' Day Banquet. He is now with the Bros. Boiler Company.

Laurence V. Johnson, '27, visited the chapter on Homecoming.

EDWARD H. ERCK, '28, is in New Kensington, Pa.

HUGO F. GUSTAFSON, '28, visited the chapter recently on his vacation. Brother Gustafson is employed in the Technical Department of the B. F. Goodrich Company.

GEORGE TIEWING, JR., '28, was recently transferred from Minnesota to California, where he is now working on a dam for Winston Brothers.

A. DONALD ALDERSON, '29, was recently married to Mary Root of Rochester, Minnesota. He is now with the Soo Line at Enderlin, South Dakota.

WINFRED L. HINDERMANN, '29, continues his work with the Minnesota State Highway Department as Engineer of Tests.

E. JOHN MILLER, '29, is an Engineer for the Bethlehem Steel Co., Bethlehem, Pa.

NATHAN C. DAVIES, '30, can be addressed at 703 Masonic Bldg., Bartlesville, Okla.

RALPH L. GOETZENBERGER, '30, visited the chapter on Homecoming Day. He is now with the Minneapolis Honeywell Heat Regulator Company, working as Manager of the Regulator Department.

LESLIE G. HAVERLAND, '30, is now Junior Engineer for the Illinois State Highway Department. He was married last June to an Illinois girl.

DONALD B. KENDALL, '30, is back in school this year doing graduate work.

ERNEST C. KRON, '30, can be addressed c/o A. O. Smith Co., Milwaukee, Wis.

ROBERT RAMSDELL, '30, has been working with the Minnesota State Highway Department. He has recently been transferred from Milaca to Grand Marais, Minnesota.

MARTIN AGATHER, '31, is now in business for himself at Sauk Rapids, Minnesota.

CLIFFORD O. ANDERSON, '31, is doing graduate work this year.

RUDOLPH M. HANSON, '31, is now working in the Steam Generation Results Department of the Northern States Power Co.

IRVING SOMERMEYER, '31, returned this fall from a one year cruise with the fleet. He is now on duty at the Navy hangar.

HARRY THORSON, '31, is back in school this year for graduate work.

ALFRED WERNER, '31, was recently married to Theresa Peterson, of Rochester, Minnesota.

JAMES E. DOWD, '32, is employed as inspector at the Waters-Genter Toastmaster Co.

RAYMOND H. OBELL, '32, is now Contact Manager for the Northwest Airways at Winnipeg.

STANTON T. SMITH, '32, visited the chapter and celebrated Homecoming with some of the actives.

JOHN HERBEN WILLOX, '32, has returned to school this year for graduate work.

BETA

ALBERT J. HOULE, Hon '96, can be addressed P. O. Box 173, Douglas, Ariz.

FRED K. HOUSTON, '01, is Pet. Engr. for the Maple Leaf Oil and Ref. Co., Ltd., Coutts, Alta, Canada.

Charles A. Kumke, 06, is with the Katherine Mines Syndicate, and can be addressed at Box 8, Kingman, Arizona.

Roy B. Earling, '08, is Cons. Engr. with the Fairbanks Exploration Co., Fairbanks, Alaska.

Fred W. Varney, '08, is mining at Midas, Nevada.

Walker B. Longan, '09, has changed his address to 1636 Hermosa Ave., Hermosa Beach, California.

Albert L. Ferries, '11, and Miss Fannie G. Coppedge were married on September 7, 1932, at Clarksville, Tennessee.

Karl K. Hood, '12, is at 104 Fairview Ave., South Orange, New Jersey.

Charles E. Chaffin, '13, is with the General Engr. Corp., 139 Pierpont St., Salt Lake City, Utah.

Joseph David, '15, can be addressed at 37 Putnam St., Grand Rapids, Michigan.

Sinclair H. Lorain, '17, is in Chichagof, Alaska.

Merlin W. Foard, '18, is Dir. Ingersoll-Rand Ltd., 11 Clive St., Calcutta, India.

Ralph M. Moon, '20, can be addressed c/o Ingersoll-Rand Inc., Box 1085, Gateway Annex, Kansas City, Mo.

Carl W. Abrahamson, '21, is at 161 Drinkwater St., Sudbury, Ont., Canada.

Lester Vocke, '22, can be addressed as 1st Lt. F. A., at Schofield Bks., T. H.

Walter C. Lawson, '23, who has been Mining Engineer at Ajo, Arizona, has left for Little Rock, Arkansas, to drill a Bauxite property for the General Foods Corporation. His permanent address is Milan, Michigan.

Lyle Tonne, '28, spent a year at Northern State Teachers College, and is now teaching mathematics and chemistry in the Roger Bacon High School, Cincinnati, Ohio.

William Gertz, '29, and Miss Lorraine Pearce of Houghton were married on November 15, 1932.

Stephen Owens, '31, is working for the Highway Department at Ottawa, Illinois.

Richard Swinehart, '31, and Miss Lucille Bellenger were married last March. Mr. and Mrs. Swinehart made a short visit in Houghton in August. He is employed by the Dow Chemical Company, Midland, Michigan.

Bernard J. Werkowski, '31, is at 2913 North Maryland Ave., Milwaukee, Wisconsin.

Albert Joseph Pepin, '32, is attending the University of Michigan, having received a fellowship in Metallurgy last June. His address now is 1321 University Avenue, Ann Arbor, Michigan.

GAMMA

Walter V. DeCamp, '08, general manager of United Verde Copper Company, has severed his connection with the company and will devote his major efforts to his new work as emergency director of unemployment relief in Arizona. He will continue to make his headquarters at Jerome, Ariz.

Walter R. Brown, '10, is Supt. for F. J. Crandell Co., and can be addressed at 220 E. 42nd St., N. Y. City.

John H. East, Jr., '10, is now at his

home, 3427 Vine St., Denver Colorado.

STANLEY M. WALKER, '11, is a Construction Engineer, and can be located at 1320 Humboldt St., Denver, Colorado.

SEYMOUR P. WARREN, '13, Associate Professor of Metallurgy at the Colorado School of Mines, made an extensive tour of the South Western and Eastern United States, visiting various smelters, mills, and mines.

EDMUND W. WESTERVELT, '13, is at 915 South Carondolet Ave., Los Angeles, California.

SAMUEL J. BURRIS, JR., '13, can be addressed at 514 Garfield Ave., Baxter Springs, Kans.

ALFRED F. DUGGLEBY, '13, is at Baguio, Mt. Prov., Phillipine Islands.

F. S. FOLLANSBEE, Ex. '15, is Chief Engr., The Koppers Coal Co., 1010 Koppers Bldg., Pittsburgh, Pa.

FLETCHER H. WOODS, '16, is Supt. for Oriental Cons. Mining Co., Hokuchin, Chosen (Korea).

LEE K. WORTH, '17, engineer for the Stanolind Oil Co., can be addressed at Box 1658, Longview, Texas.

THOS. H. ALLAN, '18, geologist for the Midwest Refining Co. lives at 2345 Forest Ave., Great Bend, Kansas.

JOSEPH E. EDGEWORTH, '21, is Supt. of the Lion Coal Co., Rock Springs, Wyoming.

DAVID J. GRAHAM, '21, can be addressed at 1116 Eleventh St., Douglas, Arizona.

LT. LOUIS W. PRENTISS, '21, is now in charge of the R. O. T. C. at his Alma Mater and can be addressed c/o Colorado School of Mines, Golden, Colorado.

ROGER M. SCHADE, '21, has gone to Indo China where he is to be construction engineer for a French Company that is installing Allis-Chalmers Equipment.

BYRON B. BOATRIGHT, '22, Professor of the Petroleum Dept., of the Colorado School of Mines, did some consulting work for the Van Royalty Company on proration and also for the Thomas and Tarver, Inc. on production control.

THOMAS G. FOULKES, '22, who is doing research work for the Bethlehem Steel Co., is living at 531 Linder St., Bethlehem, Pa.

DAVID L. JONES, '22, is now with the Atlas Powder Co., 726 Colorado Bldg., Denver, Colorado.

BRUCE B. LAFOLLETTE, '22, announces the birth of a son, Bruce F., in February, 1932. They live in Gilman, Colo.

LATHAM C. SQUIRE, '22, is Vice President of the Technical Advisory Corp. and is now located at 150 Nassau St., New York City.

RONALD F. CRAWFORD, '23, is now living at 97-42 63rd Road, Forrest Hills, Long Island, N. Y.

GEORGE W. MITCHELL, '23, is now Shift Boss at the Frood Mine, International Nickel Co., Sudbury, Ontario, Canada.

GEORGE GALLAGHER, Ex. '24, announces the birth of a son on March 30, 1932. Brother Gallagher was out of college for some years but returned to Golden in 1931 to work for his degree.

GEORGE P. MAHOOD, '24, is now with Bethlehem Steel Co., 1216 Oliver Bldg., Pittsburgh, Pa.

FRANK H. STORMS, '24, is in the Barranca Bermeja Oilfields, Colombia, S. A.

EARLE B. BECKENSTAFF, '25, is now

Mine Superintendent of the Kelly Mine at Randsburg, California.

Clifford H. Stewart, '25, is Mine Foreman for the International Nickel Co., and can be addressed at Box 114, Sudbury, Ontario, Canada.

M. Parke Huntington, '26, is now in the Production Department of the Midwest Refining Co. at Midwest, Wyoming.

Vernon L. Mattson, '26, can be addressed Box 104, Burnsville, North Carolina.

John H. O'Connor, '26, is Construction Engineer, Cia Anglo Argentina de Electricidad, Esmeralda 188, Buenos Aires, Argentina, S. A.

Francis P. Sloan, Ex. '26, is living at 924 Farragut St., Pittsburgh, Pa.

Hugo Reichen, '27, can be addressed c/o Knight-Campbell Co., Denver, Colorado.

Clement A. Weintz, '27, is located in Gearhart (via Orchard) Colorado, where he is geologist for the Platte Valley Petroleum Co.

Geo. E. Bretschneider, '28, who is Production Supt. for the Stanolind Oil and Gas Co., can be addressed at Box 1301, Seminole, Oklahoma.

Wm. Homer King, '28, is with the Original Ferguson Mining Co., Clearinghouse, California.

Thomas L. Regan, '28, is with the Stanolind Oil and Gas Co., Longview, Texas.

Douglas M. Shaw, '28, is at 426 West Main St., Grass Valley, California.

Robert H. Waterman, '28, is with the Belmont Oil Co., Colorado National Bank Bldg., Denver, Colo. He lives at the Olin Hotel, 1420 Logan St., Denver, Colorado.

Theodore F. Adams, '29, is Assistant Geologist for the Patino Mines & Enterprise Co., Llallagua, Bolivia, S. A.

Paul S. Lewis, '29, announces the birth of a daughter on May 26, 1932, in Denver, Colorado.

Philip W. Simmons, '29, is with the American Mining Co., Alma, Colorado.

Ira O. Thorley, Jr., '29, is living at 1085 Sheridan St., Detroit, Michigan. He is with the U. S. Engineers Office, engaged in river and harbor work.

George H. Allen, '30, announces the birth of a daughter on February 26, 1932.

Osgood C. Kinney, '30, is Sales Mgr. for the Economy Stoker and Equipment Co., Denver, Colo.

Max C. Scheele, '30, is Superintendent of a Lignite mine in Marshall, Texas.

Ted W. Sess, '30, was married to Miss Dorothy Kidd of Denver, Colorado, on October 7, 1932. They will live at 308 South Franklin Street, Denver, Colorado.

Charles E. Smith, '30, is with the Ingersoll-Rand Co., 33rd and Arch Streets, Philadelphia, Pa.

Clyde I. True, Ex. '30, was married on January 6, 1932 to Miss Violet Bebee of Golden, Colo. Brother True is with the Colorado State Highway Dept.

Robert C. Williams, '30, is at 2022 Beverly Road, Brooklyn, N. Y.

Ivan G. Burrell, '31, is now to be addressed at Box 34, Weston, Nebraska.

John Gilbert Marshall, '31, was married to Miss Clara E. Gray of Lawrenceville, Ill., on January 31, 1932.

Clyde Turnbull, '31, was married on February 25, 1932, to Miss Vir-

ginia Hoyt of Denver, Colo. Brother Turnbull is with the Mine & Smelter Supply Co. of Denver, Colo.

James Claude Wilkerson, '31, is in the employ of the Midwest Refining Co., Midwest, Wyoming.

Edgar C. Rice, '32, has accepted a position with Benguet Consolidated Mines, Baguio, P. I.

Leslie LeRoy, '33, President of the Senior Class, announces the birth of a son, Wayne Osmond LeRoy, born in Golden, Colorado, on August 25, 1932.

Melden E. Volin, '33, was awarded a $100.00 scholarship by the Woman's Auxiliary of the A. I. M. E. This scholarship is one of two awarded in the United States this year and is given in recognition of excellent scholarship and activities.

DELTA

John S. Applegate, '15, is at 154 North Ave., Emsworth, Bellevue Station, Pittsburgh, Pa.

Wm. Oakley Binder, '31, is Metallurgist with the Dow Chemical Co., Midland, Mich.

EPSILON

Geo. B. Dillingham, '11, can be addressed Dir. Cia. Energia Electrica da Bahia, Bahia, Brazil, S. A.

Charles M. Heron, '11, is an Engineer for the United Verde Ext. Mining Co., 341 S. Serano Ave., Los Angeles, California.

Frank S. Hudson, '12, can be addressed at 1623 Opeche Way, Glendale, California.

John R. Suman, '12, who is Vice President of the Humble Oil Co., made a trip to Venezuela during the summer to inspect oil properties recently bought by the Standard Oil Co. interests.

Don C. Billick, '13, has opened an assay and engineering office in Nevada City, California.

Randolph C. Eisenhauer, '13, is living at 1773 Tacoma Ave., Berkeley, Calif.

William D. McMillan, '13, can be addressed at 8 Sveti Kliment, Sofia, Bulgaria.

James M. Douglas, '13, is Geol. for Union Oil Co. of California, Union Oil Bldg., Los Angeles, Calif.

Elford H. Geis, '15, is President of the Arrowhead Oil Co., and can be addressed at 1323 Pacific Finance Bldg., Los Angeles, California.

Travis P. Lane, '17, is a Mining and Pet. Engineer, and can be addressed at 4640 East Broadway, Long Beach, California.

Vito A. Brussolo, '20, is at 1503 Edith St., Berkeley, Calif.

Frank A. Morgan, Jr., '20, Chief Geologist of the Rio Grande Oil Co., has been elected President of the Pacific Section of the American Association of Petroleum Geologists to succeed Carrol M. Wagner, '16.

George L. Klingaman, '21, is with the California Co., Midland, Texas.

Kellogg Krebs, '23, is with the American Cyanamid Co., Azusa, California.

Raymond E. Byler, '24, is Met. for Hudson Bay Mining Co., Flin Flon, Manitoba, Canada.

James B. Chamberlain, '24, is at 1534 N. Kenmore Ave., Los Angeles, Calif.

Thos. W. Koch, '24, delivered an address on the upward movement of the Buena Vista Hills near Taft, California, at the recent meeting of the Pacific Section of the American Association of Petroleum Geologists.

James Bradley, '28, can be addressed at 1022 Crocker Bldg., San Francisco, Calif.

Andre Marcel Tweedt, '28, was married on July 17, 1932, in the Chapel of the Chimes, Oakland, California, to Miss Bernice Lucille Blair, daughter of Mr. and Mrs. Wm. Blair of Oakland.

Louis R. Goldsmith, '32, is with the Shell Oil Co., at Martinez, California, as Laboratory Assistant.

ZETA

John P. Boesche, '12, can be addressed at Box 319, Beloit, Kansas.

Curtis B. Hostetler, '14, is at 927 Keegan, Miami, Arizona.

Samuel J. Cooley, '17, is at 6657 Newgard Ave., Chicago, Ill.

Adrian H. Lindsey, '17, is head coach of the Kansas football team. He was formerly the head coach at Oklahoma University.

Hugh W. Crawford, '19, is with the Phillips Petroleum Co., Bartlesville, Oklahoma.

Herbert A. Olson, '22, is at 476 W. Iroquois Road, Pontiac, Michigan.

Marvin O. Sherman, '22, is at 2820 Forest, Kansas City, Missouri.

Edwin L. White, '22, is at 2356 Page Ave., Louisville, Kentucky.

James L. Barron, '23, can be addressed at 20 North Broadway, White Plains, N. Y.

Paul S. Endacott, '23, is at 7-101 General Motors Building, Detroit, Michigan.

Clarence A. Harris, '23, can be addressed at 1244 Moorlands Drive, St. Louis, Missouri.

G. Edmund Rose, '23, is with the S. W. Bell Telephone Co., Pittsburg, Kansas.

William S. McLeod, '24, is at 21 East 51 St. Terrace, Kansas City, Missouri.

Richard M. Ryan, '24, is at 4326 Flora, Kansas City, Missouri.

J. Ralph Stagg, '24, can be addressed at 1343 Tennessee, Lawrence, Kansas.

Lynn Abram Hibbs, '25, can be addressed at 1620 W. Pine, Wichita, Kansas.

Ralph W. Nichols, '25, can be addressed c/o American Tank and Equipment Co., Oklahoma City, Oklahoma.

Oliver K. Johnson, '26, is with the Kansas Power and Light Co., Topeka, Kansas.

Robert L. Boggs, '27, of Maracaibo, Venezuela, S. A., has been visiting the oil fields of the Gulf Coast and East Texas. He returned to Venezuela late in October.

Harold R. Hilkey, '27, is with the Buick Motor Co., and can be addressed at 741 Miss., Lawrence, Kansas.

Alonzo Sluss, '27, can be addressed at 353 Avenue E, Wilkinsburg, Pa.

Paul Swanson, '27, is now with Hoeppner and Bartlett, General Contractors, at Eau Claire, Wis.

GEORGE H. CASH, '28, is living at 303 Park Drive, Charleston, W. Va.

JAMES P. MAY, '28, announces the birth of a son, Edward Perry, on Sept. 16, 1932.

DANIEL LEE BUMP, '29, is at Valley Center, Kansas.

MANLEY J. HOOD, '29, is at 3209 Chesapeake, Hampton, Virginia.

WAYNE E. LUFF, '29, announces the birth of a daughter, Joanne, on Oct. 8, 1932.

LLOYD E. MULLER, '29, is living at 1806 Copeman, Flint, Michigan.

ELMER H. RUSH, '29, can be addressed at 1000 Tele. Building, Kansas City, Missouri.

DONALD E. BONJOUR, '30, is at 3209 Broadway, Apt. 18, Kansas City, Missouri.

JAMES A. FLATT, '30, can be addressed at 46 Crown St., Port Arthur, Ontario, Canada.

ASHFORD M. GALBREATH, '30, is with the Kansas State Highway Commission, and can be addressed at 1617 Topeka Ave., Topeka, Kansas.

HENRY G. HUGHES, '30, can be addressed at 1627 Buchannan, Topeka, Kansas.

WILLIAM K. MCMURRAY, '30, is at 1144 S. Josephine, Denver, Colorado.

HARRY L. SNELL, '30, can be addressed at 515 Maple Blvd., Kansas City, Missouri.

LEWIS "DOC" FAUST, '31, is with the Bell Telephone Co., and can be addressed at 824 W. 71st Terrace, Kansas City, Missouri.

GARALD KANE, '31, is still with the General Electric Co. in Scotia, N. Y.

IRVING "IRV" COFFMAN, '32, is with the Phillips Petroleum Company, and can be addressed at 3000 Linwood, Kansas City, Missouri.

FLOYD E. GIDINSKY, '32, has a job with the city of Kansas City, Missouri, and can be addressed at 321 Ward Parkway, Apt. 610, Kansas City, Missouri.

HENRY J. HOOD, '32, was married on June 15, 1932, to Miss Margaret Farr of Lawrence, Kansas. Brother Hood is with the Eastman Kodak Co., and can be addressed at 287 Maplewood Ave., Rochester, N. Y.

GLENN MITCHELL, '32, is at Joplin, Missouri.

LEROY E. SHARP, '32, is at 1501 College Ave., Topeka, Kansas.

GEORGE F. WASSON, '32, announces the birth of a son, Ken George, on Sept. 9, 1932. Brother Wasson can be addressed at 2201 North Charles St., Baltimore, Md.

CLAIR "WOODSON" WOOD, '32, has passed his entrance examination and has reported to the army flying school at Randolph Field, Texas. He is in Company "A".

ETA

ALGERNON T. GIBSON, '13, was married this summer to Mrs. Kent Weaver of San Francisco.

CAPT. SIMPSON R. STRIBLING, '17, can be addressed c/o O. C. of Ord. Washington, D. C.

JAMES GIBSON, '20, reports the birth of a son during the summer of 1932.

EDW. D. RYER, '20, is with the Standard Accident Insurance Co., 111 John St., New York City.

STUART NIXON, '21, who was in California for several years is now liv-

ing at the Fraternity Clubs, 22 East 38th St., New York City. Brother Nixon is with the Continental Motors Co.

Wm. D. Scofield, '24, is living at 201 Fairmont Ave., Hackensack, N. J. He represents the Consolidation Coal Co. of West Virginia.

Robert W. Rogers, '26, can be addressed at 4 Herrick St., Winchester, Mass.

George I. Chatfield, '28, is living at 420 Memorial Drive, Cambridge, Mass.

THETA

Clifton T. Armstrong, '18, is President of the Rainbow Mines, Inc., 638 Milam Bldg., San Antonio, Texas.

Walter L. Foster, '21, is at 227 Gates Ave., Brooklyn, N. Y.

James L. Darnell, Jr., '28, is at 420 Lexington Ave., N. Y. City.

Robert B. Dickson, '29, has returned to his work with the American Bureau of Metal Statistics after a four months' trip through the gold mining districts in eastern Canada, numerous districts in the western United States, and several in Mexico.

IOTA

Robert S. Burg, '16, can be addressed at 238 South St., Santa Monica, Calif.

Fred Grotts, '16, is Metallurgist with the Continental Roll and Steel Foundry Co., East Chicago, Indiana.

Joseph C. Barton, '17, is with the St. Joe Lead Co., 250 Park Ave., N. Y. City.

Theodore C. Gerber, '17, Capt. Ordnance Dept. U. S. A., is now at Picatinney Arsenal, Dover, N. J.

Earl Joseph Weimer, '17, is Supt. of the Wildwood Mine, at Wildwood, Pa. Brother Weimer was superintendent of construction of what was reported to be the most modern mechanically equipped coal mine in Pennsylvania.

Hanley H. Weiser, '19, is a Metallurgist for the Nassau Smelting and Refining Co., Tottenville, N. Y. His home address is Great Kills, Staten Island, N. Y.

Harlan H. Hoppock, '20, is with the W. T. Rawleigh Co., Freeport, Ill.

Kenneth M. Wright, '20, can be addressed at Box 206, Genoa, Ohio.

Stanley M. Hayes, '22, is at 1413 West Cherokee Ave., Enid, Oklahoma.

Ernest S. Wheeler, '22, is doing experimental work for the Federated Metals Corp. at Newark, N. J. His home is 538 West Ave., Sewaren, N. J.

Paul Hathaker, '23, is Asst. Mineral Economist, U. S. Bureau of Mines, Washington, D. C. His home address is 1514 17th St., N. W., Washington, D. C.

Walter A. Werner, '23, announced the birth of a son on Oct. 20, 1931. Brother Werner is with the Bancroft Textile Co. at Wilmington, Delaware, after having been a number of years with the U. S. G. S. in Rolla.

Erw. E. Robertson, '24, can be addressed at Batesville, Ark.

Walter H. Weimer, '24, can be addressed at 308 North Sheridan Road, Peoria, Ill.

Karl Hasselman, '25, who has been in Germany for a number of years expects to get his Ph. D. over there soon. He is with Norde-Europaische Oel-Gesellschaft, Hannover 1W, Goseriede 1-6 Berlin, W. S., Pariser Platz 3.

Joseph H. Reid, '25, receives his mail c/o St. Louis Smelting and Refining Co., St. Louis, Mo.

Ernest W. Jones, '26, returned to Rolla to complete his work for a degree in chemistry after having been doing gyophysical work in Mexico for the Shell Co. for several years.

Cabanne Smith, '26, was married to Miss Lucy Montford Thompson of Washington Terrace, St. Louis, Missouri, on April 2, 1932. They are living at 2026 Bissonnet St., Houston, Texas.

Theodore Hermann, '28, is with the Bethlehem Steel Co. in Bethlehem, Pa. He lives at 123 East Garrison St., Bethlehem, Pa.

Arthur H. Kemp, '29, announced the birth of a daughter, on May 16, 1931. Brother Kemp is with the City Engineering Dept. of Tulsa, Okla.

Kenneth R. Neal, '30, announced the birth of a son, Harry Clare, who arrived June 6, 1931, at Baxter Springs, Kansas.

James Kneeland Richardson, '30, was married to Miss Jane Clark on September 20, 1932.

Booker Hall Rucker, Jr., '30, is City Engineer, at Rolla, Mo.

Fulton Campbell, '31, is located at Eldon, Mo., where he is an engineer with the Missouri State Highway Dept.

Arthur W. Gunther, Jr., '31, is an Inspector with the Mississippi River Commission at St. Genevieve, Mo.

Ray Haffner, '31, is working with the Mississippi River Commission at St. Genevieve, Mo.

John B. Huebner, '31, is employed in Construction work on the Mississippi River, and is now at Memphis, Tenn.

Floyd S. Macklin, '31, is married and is with the U. S. River Commission. His address is 912 Charlotte St., Kansas City, Mo.

Wm. H. Makin, Jr., '31, is with the Point Pleasant Coal and Ice Co., Point Pleasant, N. J.

Hoyt Rucker Wallace, '31, whose home is at 9933 Riverview Drive, St. Louis, Mo., is a traveling salesman for Stetson Hats.

Loren A. Wilson, '31, is unemployed and is now at Crane Mo.

Harold J. Bruegging, Jr., '32, is a Culvert Inspector for the State Highway Dept., St. Albans, Mo.

George L. Leisher, '32, is working with A. T. and T. at St. Louis, Mo.

Arthur Macke, '32, who is also on the unemployed list, is at Belleville, Ill.

Frank J. Malik, '32, is in Vicksburg, Miss., where he is working with the Mississippi River Commission.

Rex Monroe, '32, can be located at his home in Edwardsville, Illinois. At present he is unemployed.

James Offutt, '32, is with the A. P. Green Fire Brick Co., Mexico, Missouri.

KAPPA

Jerome E. Machamer, '22, is a Mining Engineer for the Oliver Mining Co., Virginia, Minnesota.

Maurice Quade, '25, has a son, Robert Northrop, who was born on September 5, 1932. Brother Quade lives in East Orange, New Jersey, with his family.

Tyrrell B. Eichler, '26, is Heating Contractor with the Eichler Heating Co., St. Louis, and lives at 539 Donne Ave., University City, Missouri.

LAMBDA

George F. Stott, '15, is operating a mine and living in Eureka, Nevada.

Arvid E. Anderson, '19, is with the American Cyanamid Co., Linden, N. J.

C. Milton Anderson, '20, may be reached at Hotel Paul Revere, Detroit, Mich.

Wm. J. Walker, '21, is Mining Engineer for the Ely Gold Mining Co., Box 686, Ely, Nevada.

Otto Duke, '22, is now Assistant Professor of Mechanical Engineering at the University of Utah.

Thos. C. Browning, '23, may be reached at 667 Twenty-sixth St., Ogden, Utah.

John S. Grey, '23, can be addressed at 1106 Bush St., San Francisco, California.

Darrel B. Wadsworth, '26, is in Pegram, Idaho.

George M. Jones, '27, is now instructor in Mechanical Engineering at the University of Utah, and can be addressed at 448 University Ave., Salt Lake City, Utah.

James D. Forrester, '28, is Geologist for the Anaconda Copper Mining Co., 526 Hennesy Bldg., Butte, Montana.

NU

Louis F. Sattele, '23, is Assistant Superintendent of the Blast Furnaces for the National Tube Co. His address is 2909 Jenny Lind St., McKeesport, Pa.

Oscar S. Wenger, '30, is with the General Electric in Schenectady. His address is Y. M. C. A., 13 State St.

William J. McGregor, '31, was married to Miss Kathleen O. Richey of Irwin, Pennsylvania, on September 3, 1932. Their address is Box 84, Cherwick, Pennsylvania.

XI

Andrew Leith, '26, was married at Rockford, Wisconsin, on June 3, 1932, to Miss Elizabeth Schipper of Lowell, Mass.

Willis L. Tressler, '26, who spent some time in research work in the Philippine Islands, traveled in Europe this summer, and has now returned to his position on the faculty of Buffalo University, Buffalo, New York.

OMICRON

Leo Murphy, '21, is with the Illinois Highway Commission in Elgin, Ill.

Louis E. Baggs, '22, is working on the construction of river locks with the U. S. Engineers at Rock Island Arsenal.

Verner R. Muth, '22, lives at 6437 Kimbark Ave., Chicago, Ill.

Ronald Owen, '22, is still with the Peoples Power Co. in Moline, Ill.

James Phillips, '22, is a 1st Lieutenant, C. E., at Wright Field, Dayton, Ohio. Brother Phillips has been doing experimental work in aerial mapping and has flown projects from Maine to California and back down to Florida in the past year.

Vern Price, '22, is Distribution Engineer for the Iowa Southern Utilities Co. in Centerville.

Edmund G. Rich, '22, lives at 452 Le Doux Road, Los Angeles, California.

Raymond Anderson, '23, is at 1039 S. Iowa Ave., Washington, Iowa.

Donald L. Hains, Ex. '23, announces the arrival of a daughter, Kathryn Louise, on March 6, 1932. Brother Hains can be addressed at 1024 Palmer Place, Waukegan, Ill.

Leo L. Vogt, '23, is with the Illinois Highway Commission, and lives at 360 S. State St., Elgin, Ill.

Harold Lemkuhl, '24, is in New York on the Newark terminal project for the Pennsylvania Railroad.

Clarence O. Sloan, '24, is with the Iowa Electric Light and Power Co., and can be addressed at 210 N. Church St., Toledo, Iowa.

Clifford Von Hoene, '24, is still with the Southern Bell Telephone Co. in Atlanta, Georgia.

Forrest "Frosty" Jennings, '25, who is still with the Iowa Southern Utilities in Washington, is the proud father of a daughter born on July 21, 1932.

Harold R. Phelps, '25, can be addressed at 16262 Appoline, Detroit, Michigan.

Elmer C. Slagle, Ex. '25, is with the Minnesota Department of Health, and can be addressed at 318 Harvard St., S. E., Minneapolis, Minnesota.

Louis M. Wolters, Ex. '25, is at 5117 Kenmore Ave., Chicago, Ill.

Frank Woodward, '25, is with the Minnesota Department of Health in Minneapolis, Minnesota.

Arthur C. Boeke, '26, is at 429 Custer Ave., Evanston, Ill.

Emil P. Schuleen, '26, is with the U. S. Engineer Office, Keenan Bldg., Pittsburgh, Pa.

Ernest T. Schuleen, '26, announced his marriage to Miss Buelah Ruth Jones on October 29, 1932. The newlyweds live at Holtwood, Pa., where Brother Schuleen is working on the Safe Harbor hydro plant.

Fred Smith, '26, is at the Hawthorne works of The Western Electric Co., and lives in LaGrange.

C. Max Stanley, '26, is a member of the firm of Young and Stanley, Inc., of Muscatine, Iowa. Brother Stanley is now in consulting engineering practice. His address is 211 Iowa Avenue, Muscatine, Iowa.

Carl F. Todson, '26, announces the arrival of a daughter, Marcella May. Brother Todson can be addressed at 1950 Blaine Ave., Detroit, Mich.

Richard C. Aussieker, Ex. '27, can be addressed at 1749 E. Street, Apt. 203, San Bernardino, California.

Xavier "Jack" Boyles, '27, can be

addressed c/o Iowa State Highway Commission, Clarion, Iowa.

JOHN FOLWELL, '27, became a proud father on May 27 with the arrival of a daughter, Betty Jane.

WALLACE ELLIOTT, '28, is head of the inspection department for the Shell Pet. Corp. in Roxana, Ill., and can be addressed at Box 271, Roxana, Ill.

LLOYD L. HESKETT, '28, is at 1820 Harding Road, Des Moines, Iowa.

MARSHALL HURD, '28, can be addressed at Humboldt, Iowa.

FRANCIS L. KLINE, '28, married Miss Margaret Short of Kansas City, Mo., during October. Brother Kline visited the chapter at Homecoming time. The newlyweds are living at the Concord Apartment in Kansas City, Mo.

MARVIN J. REID, '28, has changed his address to 158 Strathmore Drive, Rochester, N. Y.

WILLIAM W. WERTZBAUGHER, '28, is waiting out the depression at his home in West Branch, Iowa.

ALFRED I. HESS, '29, is at 247 Avis St., Rochester, N. Y.

ROBERT C. MATHIS, '29, is located in Corning with the Highway Commission.

WILLIAM J. MCLARNEY, '29, lives at 1653 Hering Ave., Bronx, N. Y.

FRANK W. ASHTON, '30, is still with the American Bridge Company at Gary, Ind. His new mailing address is 616 Hanley St., Gary, Ind.

ROBERT K. HEMPHILL, '30, lives at 18 Melbourne Ave., S. E., Minneapolis, Minnesota.

MERRON "SWEDE" JENSEN, '30, can be reached at Calamus, Iowa. He drops in the chapter every third Saturday as he comes to Iowa City to attend the University's Saturday classes.

FORD D. LOVELAND, '30, is at Auburn, Nebraska, but expects to be back with the U. S. Engineers soon on the Missouri River project.

JOSEPH OSCAR SHEROD, '30, is still with DuPonts, and can be addressed at 122 Delaware St., Woodbury, N. J.

RALPH L. CLAASSEN, '31, who received his M. S. in Ch. E. at the end of the summer session, is keeping right on after his Ph. D. He lives in the chapter house.

RAMON T. JESSEN, '31, is the proud father of a boy, Ramon Theodore, Jr., born on Feb. 16, 1932.

PHILIP "PHIL" KROUTH, '31, is living in Iowa City where he is employed at the "Town Pump". His address is 15 Harrison, Iowa City, Iowa.

CARL "SOX" E. RANTZOW, '31, is working with the U. S. engineers at Rock Island on flood control projects on the Mississippi. His address is 338 Federal Building, Rock Island, Ill.

EARL H. RAUSCH, '31, was married to Miss Dorothy Wohlert this past summer at State Center, Iowa. Since graduation he has been employed by the Western Grocers Company of Marshalltown, and he divided his time between the Waverly and Marshalltown plants of this company.

RALPH SPEAR, '31, was married on May 22 to Miss Evelyn Gilbert at Unionville, Missouri. They will make their home at Dallas, Iowa.

ARTHUR E. STANLEY, '31, announces the birth of a daughter, Susan, during the past month. Art is working for the Iowa Highway Commission out of Corning where he is living. The chapter extends congratulations.

WM. L. STARKWEATHER, '31, after receiving his M. S. in Ch. E. at the

close of last year, returned to his home at Greene, Iowa, to wait out the depression.

FRANK "WACK" WELLS, '31, is in Rock Island yet under the Civil Service with the Army Engineers, and can be reached at 338 Federal Building, Rock Island, Ill.

WILFRED A. BLASER, '32, is working for his M. S. in M. E. at Purdue University. He is living with Phi Chapter, and states that he is well pleased with everything.

LEWIS T. LONG, '32, is living at 1106 West Thirty-seventh St., Des Moines, Iowa.

ALVIN S. LUNDY, '32, lives at 909 North Calhoun St., West Liberty, Iowa.

URBAN J. MILLER, '32, is working on his M. S. degree at S. U. I., and is staying at 513 Iowa Ave., Iowa City, Iowa.

ROY E. OTT, '32, is living at 634 N. West St., Oskaloosa, Iowa.

HAROLD A. PETERSON, '32, is also back at S. U. I. He is living at 1412 E. Court Street, Iowa City, Iowa.

KENNETH M. SMITH, '32, was married on February 8, 1932 to Miss Mildred Pangborn at Cedar Rapids, Iowa. They are living at 232 S. Dubuque St., Iowa City, Iowa, while Brother Smith is working on his M. S. in M. E. at S. U. I.

WILLIAM LYLE STARKWEATHER, 32, announced his engagement before school ended to Miss Edna Smith of Cedar Rapids.

EDGAR W. STEINBRENNER, '32, is at his home in Sioux City. His address is 3911 Peters Avenue, Sioux City, Iowa.

JACK STOBER, '32, is going to Fort Sill, Oklahoma, for nine months in the Field Artillery School.

GERALD O. YOUNG, '32, is attending the Clarence White School of photography at Albany, N. Y.

PI

JOHN E. BLANN, '31, can be reached c/o Hitchcock, Proffit, Virginia.

RHO

WELFORD D. SPENCE, '30, is at 113 Hawthorn Rd., Raleigh, N. C.

RUDOLPH JOHN BARNES, '31, can be addressed at 921 Berkley Ave., Charlotte, N. C.

H. ELWOOD WILLIAMS, '32, receives his mail at Box 1039, Greensboro, N. C.

SIGMA

MARION BURR, '27, is working as a ceramic engineer for a brick plant in Portsmouth, O.

ELMER MARSHALL, '28, is living at 1429 Rowland Mound, Norwood, Ohio.

ELY FENTON, '29, is patiently waiting for the Penn. Railroad to call him back to work. He is living at his home in Warren, Ohio.

GRAYDON TROUT, '29, is spending his forced leave of absence from the telephone company in school. He is staying at the chapter house.

W. Richard "Dick" Fiedler, '30, has returned to the campus to study Education. He expects to enter the teaching profession when he finishes his course.

Walter Lower, '30, is in Columbus doing work on fuel analysis at the Engineering Experiment on the O. S. U. campus.

Caleb E. Osborn, '30, is now working full-time for the Highway Department of Ohio. He has retained his room at the chapter house.

Carl Spangler, '30, is living in Columbus at present. He continues his work with the Ohio Fuel and Gas Co.

Charles L. Lucal, '32, is back in school working on his Master's Degree. He is employed as an assistant in the E. E. Department.

George Moyer, '32, is living at home in Delaware, Ohio, and working for the Columbus, Delaware and Marion Ry. Co.

Carl G. Simon, '32, has returned for the purpose of obtaining the coveted Master's Degree.

TAU

Charles F. Chatfield, '32, is at his home, 2234 Pioneer Rd., Evanston, Illinois.

PHI

Brouse D. Rinehart, '31, can be addressed at 432 Main St., Richmond, Indiana.

Fred G. Zwinger, '32, is in Dyer, Indiana.

CHI

Louis Fiscel, '26, is the county engineer at Florence, Arizona.

Robert Heinaman, '26, is a Geologist with the State Bureau of Mines at the University, and can be addressed at Tucson, Ariz.

Ira Bacon, '28, is in Hayden, Arizona, doing mining work.

John Montgomery, '29, is with a steel company in Los Angeles, California.

Wm. "Bill" Steenbergen, '29, is Assistant Agricultural Engineer at the University of Arizona, and can be addressed at Tucson, Arizona.

John L. Anderson, '30, is Assistant Manager of the University Bookstore, and can be addressed at Tucson, Arizona.

Otto Mangum, '30, is in Safford, Arizona, fixing radios.

Charles McCash, '30, is Assistant Agricultural Agent in Pima County and is in charge of measurement of wells. He is married and lives in Tucson, Arizona.

David C. Minton, Jr., '30, is with the Golden Belt Mines at Cordes, Ariz.

Frank Bacon, '31, is in El Paso, Texas.

Earl Bennett, '31, is still with the Metropolitan Water district in Los Angeles, working on the new Los Angeles Aqueduct from the Colorado River. Brother Bennett can be addressed at El Beaumont, California.

MARK CLARDY, '31, is in the mining game. His address is Box 153, Yuma, Ariz.

JACOB "JAKE" ERICSON, JR., '31, is at Flagstaff with the Bureau of Public Roads. His address is Box 2107, Bisbee, Ariz.

LEO LAINE, '31, after several months with the Bureau of Temporary Appointments is now working in Phoenix with the Geological Survey. His address is 802 Title and Trust Bldg., Phoenix, Arizona.

REX MCBRIDE, '31, is married and lives in Blockburg, California.

HERSHAL MCMULLEN, '31, is a bookkeeper for a hardware store in Prescott, Ariz. Brother McMullen is married.

HENRY PEARSON, '31, is Montgomery Wards' right hand man in radio. His address is Tucson, Ariz.

BARNEY SHEHANE, '31, is with the Highway Dept., in Phoenix, Ariz.

WALTER BROWN, '32, has been prospecting near Tucson. His address is Covina, California.

CARL BRUCE, '32, Lieutenant in the Air Corps, is stationed at Scott Field, Belleville, Ill.

HENRY D. CLARK, '32, is hunting gold mines. His address is Covina, California.

GEORGE DELOS GARDNER, '32, is working on his Master's Degree at the University of Arizona.

WALDO HUBER, '32, is now in Germany on a Mormon Mission. His address is Mozartstrasse, 35 II, Cologne, Germany.

PETER KIERNAN, '32, is with the Rohl-Connoly Company at the El Capitan Damsite, Lakeside, California.

LEON MAGEE, '32, is at the University of Arizona, working on his Master's Degree.

WILLIAM NORTON, '32, is a millman for the Miami Copper Co., Miami, Ariz.

EMIL PEARSON, '32, is working in the Mechanical Dept. of United Verdi Copper Co. His address is Box 323, Jerome, Arizona.

HENRY PEARSON, '32, is radio man for Montgomery Ward Co., Tucson, Arizona.

GINES PEREZ, '32, is working on his Master's Degree at the University of Arizona.

THORNTON PHILLIPS, '32, is in Miami, Florida.

ED FRAPS, '33, is in the University of Illinois taking a course in Chemical Engineering.

JOHN H. SOULE, '33, is in Superior, Arizona, after trying his luck at playing in a band in California.

PSI

JOHN M. MUNZENRIDER, '32, has accepted a position as instructor in engineering at Carol College, Helena, Montana.

OMEGA

KERMIT F. FENNER, '31, is at 13 East St. Louis St., Rapid City, South Dakota.

Honors

ETA KAPPA NU

Tau—Garrett, Hourigan.
Phi—Horstmann, James, Kochman.

PI MU EPSILON

Tau—Garrett, Hourigan.

PI TAU SIGMA

Phi—Winemiller.

SIGMA XI

Alpha—Neubauer.
Beta—Drier.
Delta—Artner, Baker, Davis, Hannum, Leslie.
Mu—Evans.

TAU BETA PI

Beta—Atkins, Walz, Webb.
Gamma—Gardner, Harrison, Johnson, Norman, Volin.
Delta—Dyke, Harrington, Jenner, Pogacar.
Theta—Ludeman, Tickner, Weir.
Iota—Braentigam, Coghill, Helmkamp, Martin, Musson, Richmond, Westerfeld.
Mu—Bennett, Evans, Reilly.
Omicron—Cerny.
Pi—Doswell, Dunnington, Gard, Palmer.
Tau—Garrett, Hourigan.
Upsilon—Lewis, McCauley.
Phi—Kochman, Winemiller.
Chi—Cloud, Fraps, Kelly, Paul.

PHI LAMBDA UPSILON

Alpha—Rahn.

Recent Initiates

ALPHA

371 Shaw, Kenneth C., Ft. William Ontario.
372 Erickson, Herbert K., Two Harbors, Minn.
373 Rahn, Henry W., Buhl, Minn.
374 Knight, Morris C., Minneapolis, Minn.

BETA

350 Campbell, A. S., Ironwood, Mich.
351 Anderberg, Fred O., Grand Rapids, Mich.
352 Wilson, Harold Emerson, Detroit, Mich.

GAMMA

379 Knill, L. D., Lafayette, Colo.
380 Gardner, John Marcus, Denver, Colo.
381 Sharp, Paul Grayson, Cape Girardeau, Mo.
382 Switsavage, Alfonso Charlemagne, Reinerton, Pa.
383 Volin, Melden Earl, Williams, Calif.
384 Putz, Henry Theodore, Jackson, Mo.
385 Johnson, Ralph Edgar, Denver, Colo.
386 Rump, John Steinbach, Grand Junction, Colo.
387 Fernald, Louis LeRoy, Tarpan Springs, Fla.
388 Brierly, Keppel, Denver, Colo.
389 Holenbeck, James Delbert, Ardmore, S. Dak.
390 Stewart, Robert Warren, Bartlesville, Okla.
391 Johnson, Sherman Wimmer, Jamestown, Colo.
392 Lewis, Paris Allen, Golden, Colo.
393 LeRoy, Leslie Walter, Moorpark, Calif.
394 Giggey, Theron Ernest, Loveland, Colo.
395 Smith, Dale M., Loveland, Colo.
396 Norman, Edgar Carl, Canon City, Colo.
397 Schnars, Sheldon James, Idledale, Colo.
398 Thayer, Frank Deloss, Denver, Colo.
399 Rump, William Charles, Grand Junction, Colo.
400 Moore, Clarke Worley, Golden, Colo.
401 McClure, Frank Lee, Denver Colo.

DELTA

303 Moore, Lewis Barnett, Cleveland Hts., Ohio.
304 Jenner, William Charles, Cleveland Hts., Ohio.
305 Harrington, Robert Ashley, Cleveland, Ohio.
306 Dyke, Thomas Edward, Cleveland, Ohio.
307 Pinkney, John Fulmer, Pittsburgh, Pa.
308 West, Samuel Beck, Cleveland, Ohio.
309 Pogacar, Charles Frank, Jugoslavia.
310 Cerness, Frank Anthony, Cleveland, Ohio.
311 Allen, William Richard, Jr., Cleveland, Ohio.

312 Jacobus, Harland Edward, Cleveland, Ohio.
313 Artner, Robert Otto, Cleveland, Ohio.
314 Harris, Herbert Philip, Cleveland, Ohio.
315 Kleinberg, Lester Robert, Cleveland, Ohio.
316 Knoedler, Theodore Philip, Cleveland, Ohio.
317 Tyler, Clarence Walter, Willoughby, Ohio.
318 Shockey, Lovell, Cleveland Heights, Ohio.
319 Zeuch, Clarence Frederick, Cleveland, Ohio.
320 Davis, James Floyd, Shelby, Ohio.
321 Stark, Charles Moore, Cleveland, Ohio.
322 Backlond, Mauno Oliver, Cleveland, Ohio.
323 Bell, Millard Richard, Shaker Heights, Ohio.
324 Campbell, Robert Tinlin, Norwalk, Ohio.
325 Hunter, Charles Justyn, Worthington, Ohio.

EPSILON

331 Bramkamp, Richard Allan, Banning, Calif.
332 Latrobe, William Claiborn, Washington, D. C.
333 Guthrie, George Lewis, Los Angeles, Calif.
334 Fleming, George Bernard, Pasadena, Calif.
335 Houston, Kenneth Ochsner, Hanford, Calif.
336 Hickey, William August, San Diego, Calif.
337 Werner, Arthur, Jr., San Francisco, Calif.
338 De Lavaga, Miguel, Berkeley, Calif.
339 Snedden, Alfred, Sanger, Calif.
340 Schulz, Paul Ernest, Berkeley, Calif.
341 Van Fleet, Robert Owen, Richmond, Calif.
342 Richard, Fred Vincent, Vanadium, New Mex.
343 Welles, Samuel Paul, Cape Anne, Mass.

ZETA

310 Murphy, George Robert, Kansas City, Kans.
311 Dwyer, Theodore Paul, Kansas City, Mo.
312 Elliott, Edwin Ashley, Kansas City, Mo.
313 Feldman, Karl Thomas, Independence, Kans.

IOTA

264 Andres, Otto Milton, Jr., Belleville, Ill.
265 Bertram, Richard Allen, Belleville, Ill.
266 Birt, Floyd D., Decatur, Ill.
267 Gross, Bernard, Jr., St. Louis, Mo.
268 Happy, Albert William, Jr., Jefferson City, Mo.
269 Hesse, Alfred Henry, Webster Groves, Mo.
270 Koch, George John, Jr., Belleville, Ill.
271 Miller, Ben Kenneth, Cedar Rapids, Iowa.
272 Malloy, Steve Montell, Jr., Joplin, Mo.
273 Parker, Richard Addison, St. Louis Co., Mo.
274 Sturm, John Theodore, Jr., St. Louis, Mo.
275 Braentigam, Raymond Louis, Belleville, Ill.
276 Hale, George A., Maplewood, Mo.

277 HUNT, THEODORE W., East Greenbush, N. Y.
278 IRWIN, WALTER JAMES, St. Marys, Mo.
279 LOGAN, EDWIN WILLIAM, Belleville, Ill.
280 MCREYNOLDS, ELMER LOREN, Mattoon, Ill.
281 RICHMOND, RALPH WAKEFIELD, Rolla, Mo.
282 SCHUHMANN, REINHARDT, JR., Gunnison, Colo.
283 SHRUBSALL, ARTHUR EDWARD, Niagara Falls, N. Y.
284 WESTERFELD, WILFRED WIEDEY, St. Charles, Mo.
285 BECK, RICHARD H., Miami, Okla.

KAPPA

371 WOODFILL, CHARLES RICHARD, Aurora, Mo.
377 MAST, FREDERICK W., Quincy, Ill.
378 LEUTWILER, GEORGE E., St. Louis, Mo.
379 LOOMIS, ALBERT EDWARD, JR., Rockford, Ill.
380 SANDBERG, DELMER ARTHUR, Chicago, Ill.
381 STEPHENS, EUGENE EDGAR, JR., Metropolis, Ill.
382 PASHBY, ROBERT WELCH, Park Ridge, Ill.
383 BENNETT, ARTHUR J. T. JR., Chicago, Ill.
384 NAUMAN, ARTHUR CHARLES, Chicago, Ill.
385 RICH, KEITH, Chicago, Ill.
386 WARTS, JAMES ALBERT, Chicago, Ill.
387 ANDERSON, ROBERT HOWARD, Chicago, Ill.
388 WHEELER, JULIAN CARL, Albion, Ill.
389 BENSCOTER, STANLEY URNER, Kansas City, Mo.
390 DILLON, SCOTT, Washington, D. C.
391 SHEDD, THOMAS CLARK, East Providence, R. I.
392 KLESZEWSKI, ANDREW STANLEY, Three Lakes, Wis.
393 WEBB, JOHN ROBERT, Geneva, Ill.
394 POTOKAR, WALTER W., Lyons, Ill.
395 JONES, RICHARD EVAN, River Forest, Ill.
396 BARBER, HARRY ASHLEY, Aurora, Ill.
397 YOUNG, ROBERT MCCORMICK, West Lafayette, Ind.
398 HOFFMAN, WILLIAM PAUL, Chicago, Ill.
399 LOSEE, GENE WYTER, Hebron, Ill.
400 AKNING, LOUIS HENRY, Quincy, Ill.
401 HUTTON, ROMAINE B., Rockford, Ill.

LAMBDA

271 BURT, LESTER CLIFFORD, Salt Lake City, Utah.
276 HEDGES, JAMES ALLEN, Salt Lake City, Utah.
277 STUTZ, CLIFFORD NOEL, Alberta, Canada.
278 BOSSARD, GILBERT EARL, Dayton, Ohio.
279 CARTER, GEORGE WILLIAM, Salt Lake City, Utah.
280 OTTENSTEIN, WILLIAM EDWARD, Salt Lake City, Utah.

MU

99 TERRY, ALLEN LEE, Plantersville, Ala.
100 HARRIS, BARTON LYONS, Birmingham, Ala.
101 PARSONS, LEWIS EDWARD, Montgomery City, Mo.

102 Spencer, John Ross, Eufala, Ala.
103 Neel, Harvey F., Bentleyville, Pa.
104 Simpson, James Alden, Birmingham, Ala.
106 Marbey, Guthrie Swint, Horton, Ala.
107 Lapsley, John W., Anniston, Ala.
108 Brewer, D. C., Bristol, Va.
109 Bullock, N, St. Andrews, Fla.
110 Claus, W. G., Schenectady, N. Y.
111 Fleming, R. H., Pensacola, Fla.
112 Garrett, F. B., Montgomery, Ala.
113 Hamilton, C. M., Mobile, Ala.
114 Handy, C. P., Stapleton, N. Y.
115 Reed, J. A., Thornwood, N. Y.
116 Rhodes, C. F., Freeport, N. Y.
117 Farrell, Andrew Arthur, Paterson, N. J.
118 Goodwyn, Albert Tyler, Montgomery, Ala.
119 Guilmartin, John Francis, Houston, Texas.
120 Kaeffer, Charles Douglas, Clifton, N. J.
121 Palme, Francis Joseph, Meridian, Miss.
122 Soule, William Latten, Pensacola, Fla.
123 Sunkel, John William, Paris, Ill.
124 Tanner, William Brown, Vicksburg, Miss.
125 Bellis, Vincent J., Penn Yan, N. Y.
126 Bowers, William Frederick, Jr., Duquesne, Pa.
127 Bynum, Edward Bruce, Camp Hill, Ala.
128 Cannon, Woodrow W., Athens, Ala.
129 Horton, Arthur Browning, Chicago, Ill.
130 Mitchell, Lloyd Ishmael, Florence Ala.
131 Munkasy, Zoltan, Bridgeport, Conn.
132 Purcell, Wood Rowe, Gadsden, Ala.
133 Simmons, Albert Russell, Jasper, Ala.
134 Skelton, Isaac Newton, Jr., Birmingham, Ala.
135 Taylor, George William, Birmingham, Ala.
136 Teague, Robert L., Birmingham, Ala.
137 Roulston, George Gilbert Douglas, Louisville, Ky.
138 Burfield, Charles Elmer, Newark, N. J.
139 Allington, Thomas Taylor, E. Florence, Ala.
140 Bell, Byron Adams, Irvington, N. J.
141 Smith, Thomas Hunter, Mobile, Ala.
142 Quackenbush, Arthur David, Jr., Mobile, Ala.
143 Faircloth, Croom Maurice, Clinton, N. C.
144 Bennett, Lowell Herbert, Vineland, N. J.
145 Hrabe, Richard A., Ocean Springs, Miss.
146 Schenck, A. Carl, Germantown, Pa.
147 Long, Dale Halstead, Dillsboro, Ind.
148 Reilly, Walter Reese, Kingston, Pa.

NU

202 Smith, William Alfred, Erie, Pa.
203 Warrick, Earl Leathen, Westview, Pa.
204 Meng, Frederick Harry, Millvale, Pa.

205 Grant, Roy Lewellyn, Monessen, Pa.
206 Burns, William Julian, Pittsburgh, Pa.

OMICRON

170 Bruce, Herman Dyer, Pleasantville, Iowa.
171 Duckett, Everette Dayle, Corwith, Iowa
172 Gearheart, John Garland, Corning, Iowa.
173 Hamilton, Kenneth R., Iowa City, Iowa.
174 Jones, William Penn, West Branch, Iowa.
175 Ebert, Raymond E., Iowa City, Iowa.
176 Swordes, Charles Daniel, Wyoming, Iowa.
177 Prichett, John Junior, Fort Madison, Iowa.
178 Steinbrenner, Edgar Winfred, Sioux City, Iowa.
179 Putnam, Vernon Everett, Iowa City, Iowa.

PI

118 Leonberger, Samuel Lewis, Roanoke, Va.
119 Merow, Edward John, Little Valley, N. Y.
120 Dunnington, William, Lynchburg, Va.
121 McGhee, J. Curran, Alexandria, Va.
122 Oglesby, Earnest Jackson, Colade Spring, Va.
123 Dowell, Stonewall Jackson, Jr., Richmond, Va.
124 Watkins, Joel Hill, Jr., Charlotte C. H., Va.
125 Carson, James Samuel, Perryville, Md.
126 Boykin, Robert Hill, Youngstown, Ohio.
127 Adams, John Quincy, Greenport, N. Y.
128 Hammond, Harry Martin, Winchester, Va.
129 Robinson, Nelson Warren, Strasburg, Va.
130 Palmer, Aubrey Edwin, Capitol Hill, Va.
131 Godley, Ashton Little, Wallingford, Pa.
132 Glunt, John Spencer, Pedlar Mills, Va.

RHO

113 Barrier, George L., Mt. Pleasant, N. C.
114 Yost, Luther Floyd, Raleigh, N. C.
115 McKenzie, Thomas J., Asheville, N. C.
116 Thomason, Max D., Salisbury, N. C.
117 Williams, H. Elwood, Greensboro, N. C.
118 Pleasants, Joe L., Jr., Lexington, N. C.
119 Tulluck, William Ernest, Sanford, N. C.

SIGMA

140 Dumbauld, George Karl, Urichsville, Ohio
141 Messner, Harlan Albert, Orrville, Ohio.
142 Hay, Charles Newton, Sandusky, Ohio.
143 Fischer, Paul Metzger, Clyde, Ohio.

TAU

101 Beers, DeForest Paul, Baldwinsville, N. Y.
106 Chatfield, Charles Foster, Evanston, Ill.
107 Gilmour, Charles Allan, Syracuse, N. Y.

108 Olley, Earl Milton, Syracuse, N. Y.
109 Rogers, Kenneth Egnor, Seneca Falls, N. Y.
110 Garrett, Carleton Theron, Apulia Station, N. Y.
111 Lewis, George Elden, Constantia, N. Y.
112 Perrott, Milton Seitz, Buffalo, N. Y.
113 Thayer, Frederick Thomas, Jr., Snyder, N. Y.
114 Woods, Harold Russell, Montour Falls, N. Y.
115 Pauler, Andrew Joseph, Flushing, N. Y.

UPSILON

50 Moody, Wayne Charles, Fayetteville, Ark.
51 Wilson, Haskell George, Ben Lomond, Ark.
52 Diffey, Alexander Augustus, Cotton Plant, Ark.
53 Winters, Charles Preston, Starkville, Miss.
54 Hyde, J. Lloyd, Tiller Ark.
55 Barnett, Francis Victor, Augusta, Ark.
56 Nelson, James Hugh, Kerlin, Ark.
57 Atkins, Robert Lockard, Muskogee, Okla.
58 Eckler, Ernest Havelock, Jr., Hot Springs, Ark.
59 Reid, Karl Neville, Fayetteville, Ark.
60 Albrecht, Harold Denton, Little Rock, Ark.
61 Gordon, William Madison, Patmos, Ark.
62 Presley, Thomas Earl, Savannah, Mo.
63 Southard, Roy W., Hollister, Mo.
64 Raiscan, Edward William, Hazen, Ark.
65 Cole, Robert E., Fayetteville, Ark.
66 Smith, Guilford Van Dyke, Little Rock, Ark.
67 Thomasson, Horace Gordon, Jr., Ozark, Ark.
68 Treadway, William A., Jr., Little Rock, Ark.
69 Clegg, Frank Reeves, Pine Bluff, Ark.
70 Stone, Russell B., McGehee, Ark.
71 Cope, Richard Edward, Harrison, Ark.
72 Sisk, Gerald Raney, Joiner, Ark.
73 Marlar, Joe Pulaski, Cane Hill, Ark.
74 Kirkley, Guy Earl, Grady, Ark.
75 Owen, Buster B., Pine Bluff Ark.
76 Pittman, Walter David, Siloam Springs, Ark.
77 Carnahan, John Hunt, Jr., Ft. Smith, Ark.
78 Thornberry, William David, Friar Point, Miss.
79 Osborne, Robert Walter, Jr., Gurdon, Ark.
80 O'Neal, Norris, Hope, Ark.
81 Hirshorn, Bernard Jacob Leon, Pine Bluff, Ark.
82 Dean, Chester, Arthur, Texarkana, Ark.
83 Clemmons, Charles Burnett, Pine Bluff, Ark.
84 McCauley, Claudius Russell, Stuttgart, Ark.
85 Lewis, Henry H., Fayetteville, Ark.
86 Dean, Edwin Coulter, Rosseville, Ark.
87 Farris, George Gibson, Muskogee, Okla.

PHI

95 Cloud, Harold Williamson, Indianapolis, Ind.

96 Connell, Lloyd Lee, Indianapolis, Ind.

CHI

14 Polk, Orval Harold, Canon City, Colo.
15 Hamilton, Albert Earl, Esmond, Ariz.
16 Pearson, Emil Sheridan, Salt Lake City, Utah.
17 Lamb, Franklin D., Phoenix, Ariz.
18 Kelly, Laurence D., Glendale, Ariz.
19 Cloud, William Kendric, Tucson, Ariz.
60 Huber, Waldo Orson, Mesa, Ariz.
61 Gerhardt, Alvin Whitmore, New Mexico.
62 Edelen, Alexander Walter, Jr., Mexico City, Mex.
63 Soule, John Henderson, Superior, Ariz.
64 Perez, Gines, Tucson, Ariz.

PSI

1 Johns, Harold T., '31, Butte, Montana.
2 Blixt, John E., '31, Butte, Montana.
3 Wilson, Arthur O., '32, Fond du Lac, Wisconsin.
4 Perry, Eugene S., '19, Butte, Montana.
5 Sweeney, Kenneth O., '32, Butte, Montana.
6 Munzenrider, John M., '32, Helena, Montana.
7 Matthew, Richard R., '34, Ovando, Montana.
8 Steadman, John F., '32, Butte, Montana.
9 Trueworthy, Jr., Edward B., '32, Butte, Montana.
10 Casey, Richard J., '32, Eugene, Oregon.
11 Trueworthy, Charles R., '34, Butte, Montana.
12 Sprunger, Merrill F., '34, Livingston, Montana.
13 Conrow, John, '33, Livingston, Montana.
14 Sullivan, John F., '34, Butte, Montana.
15 Seideman, Ralph, '34, Livingston, Montana.
16 Matter, John M., '34, Butte, Montana.
17 Hamilton, Walter A., '34, Butte, Montana.
18 Utt, Ralph B., '34, Kellogg, Idaho.
19 Mullany, John T., '34, Butte, Montana.
20 Bonner, Jr., Edw. O., '34, Butte, Montana.
21 Finch, William Charles, '34, Los Angeles, Calif.
22 Given, Wm. P., '34, Portland, Oregon.
23 Rabbitt, Jack, '34, Butte, Montana.
24 Crabb, Anthony J., '34, Butte, Montana.
25 McAuliffe, John D., '34, Anaconda, Montana.
26 Jones, Dave W., '34, Gardiner, Montana.
27 Howe, Raymorth F., '34, Helena, Montana.
28 Bovel, Jr., Arthur J., '34, Great Falls, Montana.

OMEGA

1 Paddock, Fred L., Tyndall, S. D.
2 Young, Albert M., Rapid City, S. D.
3 Beiler, Burton F., Midland, S. D.

4 Tario, Rex, Lead, S. D.
5 Ricketts, Donald A., Fort Pierre, S. D.
6 Dahlgard, Dennis E., Beresford, S. D.
7 Holleman, Clarence C., Springfield, S. D.
8 Sayler, Edwin W., Bridgewater, S. D.
9 Hagmann, Wayne W., Ashton, S. D.
10 Munson, Gerald A., Custer, S. D.
11 Lampert, John A., Rapid City, S. D.
12 Hixon, Clifford E., Lead, S. D.
13 Marquardt, Richard D., Rapid City, S. D.
14 Slaughter, Archibald L., Trojan, S. D.
15 Moulin, Donald E., Waverly, Iowa.
16 Estrup, Francis A. W., Rapid City, S. D.
17 Schmeling, Kenneth E., Watertown, S. D.
18 Northrup, Homer W., Pierre, S. D.
19 McLeaish, John, Rapid City, S. D.
20 Kammerman, John O., Rapid City, S. D.
21 Rowe, C. Merle, Rapid City, S. D.
22 Dake, Earl D., Rapid City, S. D.
23 Martin, Clarence E., Rapid City, S. D.
24 Bump, James D., Rapid City, S. D.
25 Harris, Carlton, B., Red Oak, Iowa.
26 Basler, Ralph R., Rapid City, S. D.
27 Hall, Albert, Pierre, S. D.
28 Purcell, Lyle J., Rapid City, S. D.
29 Nelson, Ralph W., Chamberlain, S. D.
30 Hegglund, Howard B., Pierre, S. D.
31 Warren, Lester J., Huron, S. D.
32 Evans, Charles F., Rapid City, S. D.
33 Fenner, Kermit F., Rapid City, S. D.
34 Anderson, Ludlow G., Rapid City, S. D.
35 Campbell, Wm. C., Terraville, S. D.
36 Fenner, Wayne L., Rapid City, S. D.

With the caption, "No Institution Which Was Financially Sound Ever Failed in Its Set Purpose", the Alpha Epsilon Pi Quarterly printed the names of a long list of life subscribers and life members in its May, 1932, issue. Every initiate is now automatically made a life subscriber at $25.00. To become a life member, he need pay only $25.00 more, in installments to suit his convenience.

Ralph Connable, an alumnus of the Albion Chapter of Sigma Chi, who is vice-president and general manager of the F. W. Woolworth Company of Canada, wears a jeweled fraternity badge reputed to be worth $25,000.

By an act of the Mississippi legislature, Mississippi Agricultural and Mechanical College has followed in the footsteps of other land grant colleges, and now bears the name of Mississippi State College. The post office address has also been changed to State College, Mississippi.

New Publications

ALPHA

MIDDLETON, JOHN L., Alpha '23,
Diamonds in Equatorial Africa,
Engineering & Mining Journal, May 1932.

BETA

FISHER, JAMES, Beta '93,
Recent Geothermal Measurements in the Michigan Copper Districts, et al. Tech. Pub. 481, Class I. A. I. M. E.

MYNERS, T. F., Beta '21,
Magnetic Concentration Methods and Costs of Witherbee, Sherman & Co., Mineville, N. Y., I. C. 6624 U. S. Bureau of Mines, 1932.

VANDERBURG, WM. O., Beta '23,
Factors Governing the Selection of the Proper Level Interval in Underground Mines,
U. S. Bureau of Mines *Information Circular* No. 6613.

VANDERBURG, WM. O., Beta '23,
Methods and Costs of Concentrating Scheelite Ore at the Silver Dike Mill, Mineral County, Nevada,
Information Circular No. 6604, U. S. Bureau of Mines.

GAMMA

FOLLANSBEE, F. S., Gamma ex '11,
The Relation of Mining Costs to Capacity of Mine Cars,
Mining Congress Journal, February, 1932.

KEOUGH, OTIS E., Gamma '21,
Observations on Conditions in and Around the Southern Serbian Mining Districts,
Mining & Metallurgy, February, 1932.

McWHORTER, C. F., Gamma '24
Developments in the Mechanization of the Coal Mining Industry,
The Mines Magazine, March, 1932.

CRAWFORD, A. L., Gamma '24,
Microscopic Characteristics of the Rio Tinto, Nevada, Copper Deposit,
Mines Magazine, August, 1932.

DELTA

KUZELL, C. R., Delta '10,
Reduction and Refining of Copper in 1931,
Mining & Metallurgy, January, 1932.

ZAY, JEFFRIES, Delta '10,
Plasticity of Metals,
The Scientific Monthly, November, 1931.

ANDERSON, ROBT. J., D. Sc., Delta '14,
Secondary Aluminum,
The Sherwood Press, Inc., Cleveland, Ohio.

EPSILON

TICKELL, F. G., Epsilon '11,
Modern Methods in Petroleum Geology,
Mining & Metallurgy, June, 1932.

BAILEY, THOMAS L., Epsilon '17,
The Geology of the Potrero Hills and Vacaville Region, Solano County, California.
Univ. of Calif. Publications, Bull. Geological Sciences, Vol. 19, Bull. 15.

WILLIAMS, HOWEL, Epsilon '20,
The History and Character of Volcanic Domes,
Bull. Dept. Geo. Sci., Vol. 21, No. 5.

WILLIAMS, HOWEL, Epsilon '20,
Mount Shasta a Cascade Volcano,
Journal of Geology, Vol. XL, No. 3, 1932.

SCHENCK, HUBERT G., Epsilon '22,
Cephalopods of the Genus Aturia from Western North America,
Univ. of Calif. Pubs. Dept. of Geology, Vol. 19, Bull. 19.

ANDERSON, CHAS. A., Epsilon '24,
The Geology of the Engels and Superior Mines, Plumas Co., Calif.,
Univ. of Calif. Pubs. Dept. Geological Sciences, Vol. 20, Bull. 8.

PENNEBAKER, E. N., Epsilon '24,
Geology of the Robinson (Ely) Mining District in Nevada,
Mining & Metallurgy, April, 1932.

ETHERINGTON, THOMAS J., Epsilon '29,
The Stratigraphy and Fauna of the Astoria Miocene of Southwest Washington,
Vol. 20, Bull. 3, *Pubs. Dept. of Geology, Univ. of Calif.*

FITCH, A. A., Epsilon '32,
A Contact Section on the Mokelumne River, California,
Univ. of Calif. Pub. Dept. Geol. Sci., Vol. 22, No. 1.

FITCH, A. A., Epsilon '32,
Geology of Ben Lomond Mountain,
Univ. of Calif. Pub. Dept. Geol. Sci., Vol. 22, No. 1.

ZETA

JAKOSKY, J. J., Zeta '20,
Geophysical Methods Locate Meteorite,
Engineering & Mining Journal, July, 1932.

JAKOSKY, J. J., Zeta '20,
The Use of Geophysics in Gold Mining,
Mining Journal of Arizona, Vol. 15, No. 6.

IOTA

BUEHLER, H. A., Iota '01,
Biennial Report of the Bureau of Geology and Mines,
Rolla, Mo. and Appendix III.

STROUP, R. J., Iota '21,
Eagle-Pichers Central Milling Project,
Engineering & Mining Journal.

STROUP, R. J., Iota '21,
Trailing Disposal in the Tri-State Field,
Mining Congress Journal, June, 1932.

HATMAKER, Iota '23,
Pumice and Pumicite,
Information Circular No. 6560, U. S. Bureau of Mines.

LAMBDA

GARDNER, EUGENE D., Lambda '06,
Shaft-sinking Practices and Costs,
Bulletin 357, U. S. Bureau of Mines, 1932.

SORENSON, A. H., Lambda, '26,
Movement of Piers during Construction of a Multiple-span Arch Bridge,
Publications of Structural Section, Illinois Society of Engineers, 1932.

MU

DEVANEY, FRED D., Mu '25, and Coghill, W. H.,
Concentration of the Rake Discharge from a Bowl Classifier in a Washing Plant of the Mesabi Range, Minnesota,
Reports of Investigations, U. S. Bureau of Mines, No. 3148.

OMEGA

KAMMERMANN, J. O., Omega '06,
Minor Industries of the Black Hills,
The Black Hills Engineer, Vol. XIX, No. 1.

BUMP, JAMES, Omega '29,
Badland Fossils,
The Black Hills Engineer, Vol. XVIII, No. 3.

BUMP, JAMES, Omega '29,
Six Summers of Fossil Collecting,
The Black Hills Engineer, Vol. XVIII, No. 3.

Employment Service

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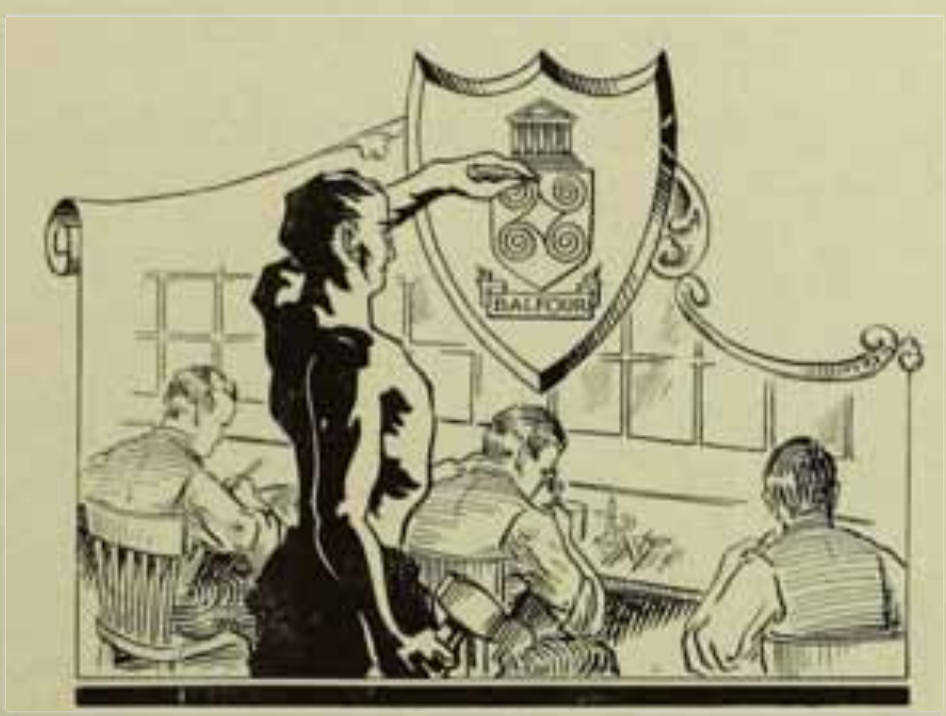
C. E. 2 Graduate Civil, U. of Arkansas '31. Age 25, single, excellent health. Experience: Summer work with Arkansas Highway Department as instrument man and concrete inspector; office Engineer, Phoenix Utility Co.; Cement inspector, U. S. War Department, Cairo office. Good references.

M. E. 1 Graduate Mechanical, Syracuse University '32. Age 22, single. Desires heating, ventilating, or air conditioning work. Good college record. Good draftsman. Summer experience with plating department of Lamson Co. and Onondaga Oil Co. at Syracuse, N. Y.



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