

THE GEAR

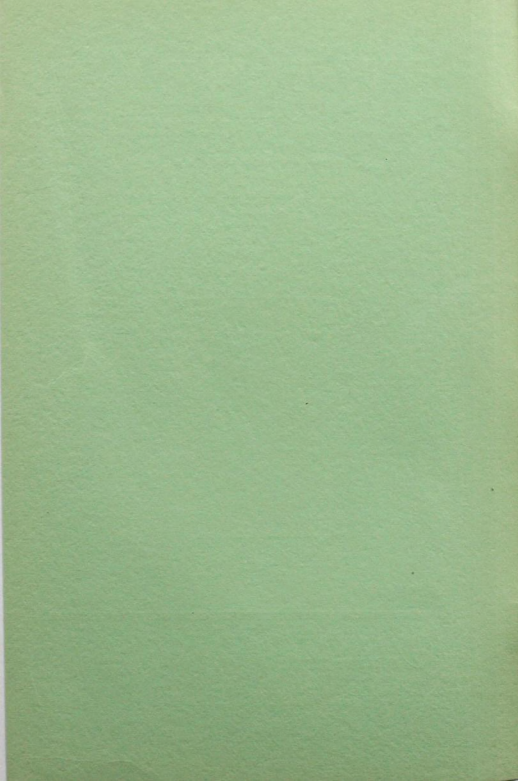
OF THETA TAU



Volume **XXIV**

Number **2**

SPRING, 1935



The GEAR of
THETA TAU



SPRING, 1935

VOLUME XXIV

NUMBER 2

Theta Tau Fraternity

Founded at the University of Minnesota October 15, 1904

FOUNDERS

ERICH J. SCHRADER
W. MURRAY LEWIS

ISAAC B. HANKS
ELVIN L. VINAL

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- Central Ohio*—Caleb E. Osborn, 1965 Indianola Ave., Columbus, Ohio.
- Chicago*—Dick Van Gorp, Room 700, 910 South Michigan Blvd., Chicago, Ill.
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Chapters

- ALPHA, *Founded October 15, 1904* - - - - University of Minnesota
(Chapter house) 324 Walnut St., S. E., Minneapolis, Minn.
- BETA, *Established March 26, 1906* - Michigan College of Mining and Tech.
(Chapter house) 233 College Ave., Houghton, Mich.
- GAMMA, *Established November 8, 1907* - - Colorado School of Mines
c/o Prof. B. B. Boatright, Colo. School of Mines, Golden, Colorado
- DELTA, *Established May 23, 1911* - - Case School of Applied Science
Theta Tau Box, 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
Theta Tau Box, Engineering Bldg., Columbia University, New York City
- IOTA, *Established February 5, 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, Champaign, 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
P. O. Box 1279, University, Alabama
- NU, *Established January 1, 1922* - - Carnegie Institute of Technology
P. O. Box, 114, Carnegie Institute of Technology, Pittsburg, Pa.
- OMICRON, *Established February 3, 1923* - - - - University of Iowa
(Chapter house) 804 North Dubuque Street, Iowa City, Iowa
- PI, *Established May 26, 1923* - - - - - University of Virginia
(Chapter house) 1521 Virginia Ave., University, Virginia
- RHO, *Established February 16, 1924* - N. C. State College of Ag. and Eng.
P. O. Box 5394, State College Station, Raleigh, N. C.
- SIGMA, *Established November 29, 1924* - - - Ohio State University
(Chapter house) 1965 Indianola Ave., Columbus, Ohio
- TAU, *Established December 12, 1925* - - - - Syracuse University
c/o Prof. E. F. Berry, College of Applied Science, Syracuse, New York
- UPSILON, *Established April 7, 1928* - - - - University of Arkansas
P. O. Box 24, University Station, Fayetteville, Arkansas
- PHI, *Established April 21, 1928* - - - - - Purdue University
(Chapter house) 416 N. Main St., West Lafayette, Ind.
- CHI, *Established April 23, 1930* - - - - - University of Arizona
Theta Tau Box, Engineering Bldg., University of Arizona, Tucson, Ariz.
- 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
- GAMMA BETA, *Established March 16, 1935* - George Washington University
c/o Dean of School of Engineering, George Washington University,
Washington, D. C.



FRONT ROW—*H. C. S. Thom, Phillips, Morgan, Bradford, Johnson, Moats, Bailey, McAdams, Ellenberger, Thom
 BACK ROW—*C. D. Johnson, Motz, Helvestine, Rhine, *Heimberger, Thomas, Huntzburger, *Lawton, Baker, Sangster, *Filley, Ragan,
 Davis, Sraubly, *Traband, *Whitmeyer, *Press, Parsons, Hoffman, Link

*Not initiated as a charter member. (Picture of active chapter when petition was presented)

Theta Tau Invades Nation's Capitol

▼
Gamma Beta Chapter Installed at George
Washington University
▼

At an impressive induction ceremony in the Frontier Room of the Lafayette Hotel in Washington, D. C., Phi Theta Xi, local engineering fraternity of the George Washington University became Gamma Beta Chapter of Theta Tau. The time was two o'clock Saturday afternoon, March 16, 1935.

The installation team was headed by Grand Regent Fred Coffman, who was assisted by Grand Vice-Regent H. H. Hopkins, Grand Marshal D. D. Curtis, Regent William Geoghegan of Theta Chapter, Brother W. R. Franke, Treasurer of Pi Chapter, Brother Rex S. Anderson, Alpha '30, and Brother R. Stewart Henderson, Zeta '21. Besides the last two men named, there were eleven other Theta Tau alumni living in Washington who attended the installation. They are: Stuart L. Bailey, Alpha '27, Lloyd V. Berkner, Alpha '27, Millard M. Garrison, Alpha '30, Raymond E. Hertel, Alpha '30, Carlyle H. Strand, Delta '11, Phillip J. Shenon, Epsilon '20, Parker Trask, Epsilon '17, Theodore C. Thee, Zeta '27, John E. Norton, Theta '21, Frank W. Rose, Pi '30, and Frazier M. Edwards, Rho '32. Also, Brothers Daniel and Fitzpatrick from Pi Chap-

ter drove to Washington Saturday morning in order to be present.

The twenty-four charter members of Phi Theta Xi were inducted first, and then twelve alumni. The membership is as follows:

Actives

1. Norman B. Ames
2. Frank A. Hitchcock
3. Edward A. Baker
4. J. Harold Link
5. Frank E. Bailey
6. Edward J. Thomas
7. Carl O. Hoffman
8. Paul L. Moats
9. Thomas A. Bradford
10. Jack C. Davis
11. William J. Ellenberger
12. Albert H. Helvestine
13. Lee I. Huntzberger
14. James L. Johnson
15. Terry J. McAdams
16. Robert E. Morgan
17. Caleb A. Motz
18. John E. Parsons
19. Jules L. Phillips
20. Joseph B. Ragan
21. Walter F. Rhine
22. Harold L. Sangster
23. Alan M. Staubly
24. G. Chester Thom

Alumni

25. Francis M. Hoffheins
26. James A. Kelley, Jr.
27. R. Woodward Moore
28. Firman P. Lyle
29. Wentworth B. Clapham
30. Frank H. Bronaugh
31. Ray Donald Kinney
32. Kenneth L. Sherman
33. H. Warren Stewart, Jr.
34. Peter Haskell Roeser
35. Gilbert Brooks
36. Ellsworth J. Hand



Looking toward Sciences Building

That evening after the formalities of the installation those brothers addicted to public speaking came into their own. The banquet was held in the Main Ball Room of the hotel at seven o'clock. Special guests of this occasion were Dr. Ralph C. Williams, Assistant Surgeon General of the U. S. Public Health Service and past president of the Professional Interfraternity Conference, Dean J. R. Lapham of the George Washington Engineering School, and Professor Benjamin Cruikshanks of the Engineering School. Dr. Ames, who was initiated as the first charter member of Gamma Beta, was toastmaster, and Dr. Williams was the principal speaker of the evening.

At the conclusion of an enjoyable dinner, several of the guests made brief comments to the credit of the new chapter, and then Brother Ames introduced Dr. Williams. The latter reviewed the history of the fraternity system in the United States with special reference to the three major classes: general, honorary, and professional. He called attention to the common misconception of the purpose of honorary and professional fraternities and admonished those present to help clear up this misconception. The keynote of the talk was professional ethics. The speaker emphasized the point that the most important work of any professional fraternity is to foster high ideals and the highest professional ethics.

Extreme seriousness prevailed at the close of the banquet when the toastmaster instructed the present president and a past president of Phi Theta Xi to take down the banner of their fraternity for the last time.

Let it not be supposed, however, that the entire evening was spent in discussion of a serious nature, for it is reported that no teller of humorous stories was forced to remain silent.

Origin and Development of George Washington University

The origin of the George Washington University goes back to the early days of the Republic and to the plans of this country's first president. For one hundred and twelve years this university has developed in the capital of the nation.

Since the very day of its founding nationally prominent men have been instrumental in its growth, and states-

men from foreign countries have shed their influence upon it. The idea of a university located in the national capital was first sponsored by George Washington, who, during his public life, urged the establishment of such an institution and in his will left fifty shares of stock in the Potomac (Canal) Company for the endowment of a university to be established in the District of Columbia, "to which the youth of fortune and talents from all parts . . . might be sent for the completion of their education in all branches of polite literature—in Arts and Sciences, and in acquiring knowledge in the principles of politics and good government."

Although the curriculum and the standards of fitness for education have been modified since Washington's time, the ideals behind the institution have not changed.

As early as 1819 the Reverend Luther Rice, a Baptist missionary, had formed an association to buy land for the use of a college in the City of Washington. With George Washington's plan in mind, John Quincy Adams, Secretary of State; William H. Crawford, Secretary of the Treasury; John C. Calhoun, Secretary of War; William Wirt, Attorney General; and Return J. Meigs, Postmaster General, became patrons of the new college and, together with thirty-two members of Congress, contributed to a fund for its support.

This University, founded as Columbian College, was chartered by an act of Congress in 1821. The first commencement was held on December 15, 1824 with President Monroe and the Marquis de Lafayette heading the company in attendance. The name

was changed to the George Washington University in 1904 by act of Congress.

The endowment of the George Washington University, not including the value of buildings, grounds, and equipment, is \$1,670,245. The buildings, grounds, and equipment are valued at \$3,500,000. The total enrollment is in excess of six thousand, with approximately four hundred and fifty professors and instructors.

The School of Engineering of the George Washington University was organized in 1884 as the Corcoran Scientific School. Through gradual changes it became the School of Engineering in 1928.



The Houdon Statue

The School of Engineering has trained some of the outstanding engineers of this country, notably those who directed the construction of the Panama Canal and the Roosevelt and Coolidge Dams.

Professional degrees of Civil Engineer, Electrical Engineer, or Mechanical Engineer may be conferred upon graduates of the School of Engineering who have demonstrated their professional ability and have submitted theses. The enrollment of this School is three hundred and twenty-five students.

To lay before her students the records of history, to inspire them through instruction in the technique of discovery, and to lead them to the interpretation and application of this knowledge in terms of social usefulness—this is the aim of the George Washington University.

History of Gamma Beta Chapter

A need was felt at George Washington University for closer fellowship between engineering students in the several branches long before 1927, but it was not until that year that a concerted effort was made to fill the need. Fourteen men representing day and evening classes in civil, mechanical, and electrical engineering met on April 28, 1927 and organized Phi Theta Xi, professional engineering fraternity.

From its very beginning this group received the whole-hearted support and active coöperation of the engineering faculty. It was largely due to this immediate recognition and able support that the fraternity became

well established soon after its founding and advanced steadily in the work of developing closer fellowship. The members lost no time in establishing the policies, ideals, constitution, and ritual which were to hold the organization together.

Social activities have not been stressed, although their significance has not been overlooked. The first major social affair was an open dance given in December of 1927, and its success with the entire School warranted its establishment as an annual event. It is the only mixed social event fostered by the fraternity.

By the spring of 1929 the real or imaginary barriers between the several branches of engineering students had been battered down so that an All-Engineering Banquet could be held and become a yearly anticipated occasion. Each year the banquet brings back an increased number of alumni; sixty alumni attended last year. A distinguished feature of each banquet is the address by a prominent government official or engineering educator.

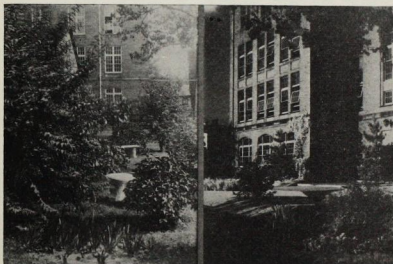
The successful execution of the annual banquet is now left to the Engineers' Council which is described elsewhere and in which the chapter is well represented. Establishment of the Council was another forward step taken by Phi Theta Xi toward closer fellowship and better coöperation in the School of Engineering.

Regular meetings of the fraternity have been held twice a month, the president having the authority to call special meetings if necessary. One business meeting and one dinner meeting are held each month. Faculty members are sometimes invited to attend dinner meetings, but talks at these

meetings are more often provided by members who happen to be engaged in interesting and instructive work.

Up to the present time it has not been feasible for Gamma Beta to maintain its own meeting rooms. However, one of the engineering class rooms is always available, and the chapter has been assured that a permanent meeting room in the contemplated Student

has been used from the beginning in selecting new members. Shortly after the founding of the fraternity the majority of the new members were drawn from the evening classes, due to the experience of the chapter that these men seemed to accomplish more. Remedial steps were taken to prevent the possibility of a membership consisting solely of men from evening



Relaxation

Inspiration

Union Building will be reserved for the exclusive use of the fraternity. To date, no meeting has ever been postponed or called off because of a shortage of new business, and it is particularly significant that dinner meetings have frequently been sacrificed for business meetings by reason of the ever-increasing activities of the fraternity.

In February of 1928 the fraternity held its first initiation. Great care

classes, so that now there is a balanced membership of equally active day and evening students.

Gamma Beta Chapter is justly proud of the fact that all men initiated into its membership have graduated or are still enrolled in the University. Also, it is of interest to note that the chapter has among its members most of the leaders of extra-curricular activities in the School of Engineering and that the chapter's grade index is 2.31

as compared with that of 2.03 for the School.

The Engineers' Council

The Engineers' Council is a coordinating and sponsoring body organized within the School of Engineering. It is composed of eleven delegates; two from each organization in the School of Engineering, which includes the three Student Chapters of the national professional engineering societies, Theta Tau professional engineering fraternity, Sigma Tau, national honorary engineering fraternity, and the representative from the School of Engineering to the Student Council of the University.

Besides regulating the time of meetings of organizations within the School of Engineering with respect to universal convenience and coordination, it serves to bring together every element of the School for unified action.

The Council sponsors All-Engineering and coöperative functions such as the Annual Engineers' Ball, the Annual Engineers' Banquet, joint meetings of the engineering societies, and mixer meetings for the entire School.

Since its organization in January, 1933, it has sponsored five major functions open to the entire School of Engineering, with a total attendance of over twelve hundred persons, and has handled efficiently and profitably over eight hundred dollars in funds.

The Engineers' Council was the brain-child of a member of Theta Tau, and the Fraternity has been dominant on the Council since its inception. This year eight representatives sitting on the Council are members of the Fraternity and hold all offices except that of the Secretary.

Fraternities on the Campus

Theta Tau is the only professional engineering fraternity at George Washington University. Sigma Tau, national honorary engineering fraternity is represented with a chapter, but this, of course, is not competitive with Theta Tau.

There are sixteen honorary fraternities at George Washington University, seventeen professional fraternities for men and nine for women, twenty general fraternities for men and thirteen for women.

Gamma Beta Chapter wishes to express its sincere appreciation of the many letters and telegrams received from chapters, alumni members, and members of the Executive Council on the occasion of its installation into Theta Tau Fraternity.

Excerpt from Letter of March 24, 1935, to Grand Scribe Schrader from Grand Regent Coffman

"One of the most touching events of my life as an officer in Theta Tau was the moment after the installation banquet when the toastmaster dele-

gated the oldest president, Brother Clapham, and the present president, Brother Baker, to take down the banner of Phi Theta Xi—a large banner

of maroon bearing the letters Phi Theta Xi in gray. Each member of the Executive Council of Theta Tau present expected the other to say something. To me it was one of those moments which cannot be described. It was comparable, as I see it, to Lincoln's address at Gettysburg. It was too sacred for words. I must admit that

there were tears in my eyes as I saw them fold up the banner for the last time, much as the Army folds up the flag at retreat.

"At the time I thought I was sentimental, but later I discussed the situation with Brother Hopkins and he said it affected him the same way."

Engineering Ethics

Excerpts From a Talk by E. S. Borgquist, Lambda '11

I remember in my early years as an engineer that a friend of mine who was then a consulting engineer told me of a lawsuit he had had with a client in trying to collect a fee for his services for which he had charged the client at the rate of \$15 a day. The client had obtained the services of another engineer to appear in court and testify on the witness stand that the services of the first engineer were not worth \$15 a day. As a result, the court set a value of \$10 a day for the services rendered and the client was allowed to pay that amount.

Now I ask you, can you imagine one doctor testifying against another doctor that a fee charged had been too high? It would be a breach of professional ethics for a doctor to give such testimony, but engineers were not very well banded together at that time; there was no sense of professional engineering ethics among them.

Laws are not sufficient to bring about the fine spirit of coöperation necessary for the real happiness of mankind. There are the finer feel-

ings of right and wrong, kindness, fairness, and friendliness which fall entirely outside the pale of the law. Engineers have felt the need for this kind of coöperation, with the result that each of the American founder societies in the several engineering branches has adopted a code of professional ethics. The result of drawing up such codes is that the professional bond among engineers has been strengthened.

One of these rules of ethics is that no engineer shall do anything that will harm the reputation of a fellow engineer. He must not seek to get the job held by a fellow engineer nor to injure another engineer's chances for getting a job.

A second rule of engineering ethics generally observed is that the engineer must realize that there is a fiduciary relationship existing between himself and his client; he must use his best energies and intelligence to see that the interests of his client are protected.

Further, the engineer is obligated

not to use his engineering training in any disreputable practice. If an engineer finds himself engaged by a client who intends to use his engineering ability for fraudulent purposes it is the duty of the engineer to sever his connection with such a client at the earliest practicable time.

Another ethical requirement is that the engineer shall not receive any compensation for his work other than the specified salary that his client or employer has agreed to pay him. In other words, he shall not accept gifts or commissions from the contractor or the company from whom materials are bought. If an engineer has a financial interest in a company furnishing materials it is his duty to inform his employer. If the employer wishes to use this material after knowing his engineer's interest, it is all right.

An interesting case is cited by Meade in his book "Contracts, Specifications, and Engineering Relations" of an engineer who is employed in a public

office where it is his duty to approve plans for work to be built. In this case it would not be ethical for the engineer to work for a private client and pass on his own plans.

A consulting engineer should never attempt to get work by lowering his own price after finding out his competitor's price. On public work, only sealed bids are received. Bidding for such work becomes keen, especially during periods of depression. It is for this reason that engineers in private practice are now asked to join the NRA and subscribe to a code of fair competition.

It is unethical for an engineer drawing a salary as a government or state employee or as a teacher in a public institution to underbid another engineer in private practice.

As a final point, an engineer should not allow himself to be overruled on purely technical matters by non-technical men. To do so may endanger the safety of the proposed structure.

Wednesday Luncheons at Twin Cities

DEAR BROTHERS:

Our Association activities have not been very extensive. On February 27 we held a business meeting at the chapter house to consider certain general matters and to discuss correspondence which had accumulated since our last meeting. The attendance was encouraging, a total of 30 being present.

We made one definite step forward in our attempt to obtain a closer spirit of cooperation and interest in the alumni organization by proposing a weekly luncheon meeting for all of our men in Minneapolis who are downtown at the noon hour. We have contacted

all the alumni we believe are interested and have had ten or twelve persons present at each luncheon. There is a nucleus of five or six regular attendants, with the remainder composed of a shifting group who cannot always make a definite luncheon engagement because of business. We hope to build up to a group of about twenty. We have made the date and the place definite,—every Wednesday at the "Y."

Our next regular spring meeting will be held early in May at the chapter house.

Yours in H and T,

FRED C. TESKE, JR.

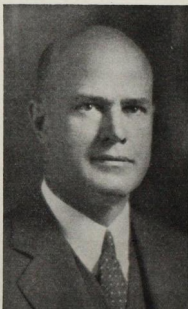
Versatility in Career of Brother Wheeler

WALTER H. WHEELER, Alpha '06, E.M., Mem. Am. Soc. C. E., Designing and Consulting Engineer, 802 Metropolitan Life Bldg., Minneapolis, Minnesota; President, Engineers Club of Minneapolis, 1922; President, N. W. Section Am. Soc. C. E., 1934; is registered in Minnesota as an Architect and also under the classifications of Mining, Mechanical and Civil Engineering.

Upon graduating from the College of Engineering at the University of Minnesota he followed mining in Colorado, Mexico and New Mexico, and then engaged in engineering and contracting in Denver, Colorado. In 1912 he moved his headquarters to Minneapolis and since that time has practiced as a designing and consulting engineer of buildings, bridges, dams, industrial plants, etc.

Structures which Brother Wheeler has built include six bridges for the City of Denver, the Paulsen Building in Spokane designed to resist earthquake, the Fort Snelling-Mendota Bridge, the 5th Regiment Armory in Baltimore, and the Athletic Stadium at the University of North Dakota.

Brother Wheeler became nationally known outside the engineering profession in 1929 when he proposed a 240,000 H. P. electro-chemical and metallurgical development on the Flathead River in Montana and engaged in a contest for the license to develop these power sites. The contest began



He takes big orders

with a hearing in Washington before the Federal Power Commission and later found its way into the halls of Congress.

In 1923 Brother Wheeler was engaged by Hennepin County, Minnesota as engineer in charge of location, design and construction of the famous Fort Snelling-Mendota Bridge, which is listed in the Encyclopedia Americana as the largest multiple arch reinforced concrete bridge in the world. The design and construction of this bridge

involved many difficult engineering problems. The project was completed at the record low cost of \$2,400,000 and within the appropriation.

In 1930 Brother Wheeler applied for patents on a new type of floor construction for buildings and bridges. This construction is applicable to either reinforced concrete or steel buildings. It consists of a flat slab floor supported directly on the columns without beams, girders, drop panels or column capitals. In 1932 he was employed by the United States Treasury Department as Consulting Structural Engineer to design the new Appraiser's Stores Building at Baltimore, Maryland, using his new system which he calls "Smooth Ceilings." This was a million dollar project and was completed in 1934. The elaborate tests

made on this building are described in *Engineering News Record* of October 18, 1934. This construction was also adopted by the State of Maryland for the Armory in Baltimore, another million dollar project.

At present Brother Wheeler is Consulting Architect and Engineer of the Minneapolis Armory in which his patented floor construction will be used. He is also Advisory Engineer of the RFC for the 9th Federal Reserve District Except Montana, and is the engineer member of the Industrial Loan Committee.

Brother Wheeler has attained recognition as an adviser and expert witness in litigation involving technical subjects and has also served as arbitrator for the Minnesota Highway Department.

Zeta's All-University Honor Men

Speaking of honor awards, Zeta has a record of which to boast in this connection. The All-University Honor Award has been given ten times at K. U. and three of the recipients have been Theta Tau men.

This honor is especially distinctive because the candidate is picked from the entire student body of which the engineering college is only a small part. The aim of the award is to define the supreme objective of higher education, namely, the development of balanced and efficient personality. The candidate is chosen each year from the graduating class of the year before by a faculty committee who consider the aspects of character, scholarship, breadth of interests, unselfish service, and leadership. The selection of the honor man is not en-



Modest

tirely a matter of faculty opinion, however, for the candidate's relationship with his fellow students is carefully considered.

Paul Endacott, '23, received the first All-University Award in 1924. Brother Endacott was a member of Sigma Xi, an "A" scholar, and captain of the victorious 1922-23 basketball team. He was an all-around student and extremely modest. In fact, it was necessary to conspire with his employer and have him sent to Lawrence on "official business" in order to present the award.

Wallace James, who was honored in 1925, was president of the student

council, a major in the R. O. T. C., captain and then coach of the cross country team, a letter man in track, a member of the joint committee on student affairs, a member of Sachem, Tau Beta Pi, and the Cosmopolitan Club. Inasmuch as Brother James was self-supporting, the range of his activities was phenomenal.



Hard working



High flying

The next Theta Tau up for the honor was Clair Wood, '32, in 1933. He was president of the Engineering Student Council, a member of the University Student Council, Tau Beta Pi, Sigma Tau, Sachem, and Scabbard and Blade. He is now a 2nd Lieutenant at Crissey Field at San Francisco.

Action the Keynote of His Career—R. A. Hart, Lambda '07

RICHARD A. HART, B. S. E.E. '07, C. E. '12, University of Utah. Memb. A. S. C. E., Utah Society of Engineers, Utah Academy of Sciences, Arts and Letters, Utah Irrigation and Drainage Congress, Montana Irrigation and Drainage Institute (honorary mem-

ber), Utah Natural Resources Association, Advisory Council of National Rivers and Harbors Congress, American Society of Planning Officials, Salt Lake City C. of C., Timpanogos Club, Bonneville Club.

Any attempt at a brief history of



A power in Utah

Brother Hart's vital and useful career must necessarily be an onrushing account of activities that will leave the reader almost dizzy. Even then all the available data on his achievements cannot be included. He began life in Nebraska in 1884 and moved to Utah during his younger years. He acquired his education through his own efforts and ambition and received his bachelor's degree in 1907. After a year spent in the Engineering Department of the State of Utah and in the Testing Department of the General Electric Company at Schenectady, N. Y., and four years with the U. S. Department of Agriculture, he took his C. E. degree at Utah. Later in life Brother Hart earned a Certificate in Business Administration from Alexander Hamilton Institute and took a three year extension course in law.

He began his government service in

1908 and worked his way through consecutive steps from the position of a research engineer to that of Senior Drainage Engineer for the twelve far-western states and Hawaii, which position he held until 1925. While he was serving the Department of Agriculture about 1,000,000 acres of land were reclaimed at a cost of over \$30,000,000. In addition to his research in this connection, Brother Hart served as consultant in the preparation of drainage district laws and the organization, financing and administration of drainage districts, meanwhile supervising the activities of the western group of Federal Drainage Engineers.

Brother Hart then turned his attention to industrial fields, serving as Secretary-Manager of the Western Clay Products Association from 1926 to 1929. Meanwhile he found time to serve as consulting engineer for the Canadian Pacific Railway irrigation project in eastern Alberta and for Ewa Plantation Company, Oahu, Hawaii and to serve the National Drainage Association for congressional hearings on proposed legislation for refinancing irrigation and drainage districts.

From 1929 until 1933 he was Industrial Secretary of the Salt Lake City Chamber of Commerce, conducting research and investigations, preparing reports and articles, promoting legislative activities and aiding in the establishment of industries. It was during these years that Brother Hart organized the Utah Union Building Corporation and directed its activities in the financing and construction of the half-million dollar students' building that now graces the campus of the University of Utah.

When the Federal Government undertook its great four billion Public Works program, Brother Hart was drafted to serve as P. W. A. State Engineer for Utah, and since August, 1933, he has been administering the Utah program which includes a half-million dollar Library Building at the University of Utah and involves roads, water supply systems, sewer systems, power projects, irrigation projects, recreational projects and many others. The program to date in Utah involves an ultimate outlay of some \$25,000,000.

In addition to memberships already mentioned, he is president of the Highland Park Improvement League, chairman of the Great Salt Lake Diking Committee, secretary of the Utah Building and Construction Congress, director of the Modernization Exhibit Incorporated, vice-chairman of the

Utah State Planning Board, member of the State Board of Health and Vital Statistics, executive secretary of the State Emergency Administration of Public Works, and secretary of the Salt Lake City Advisory Water Supply Committee.

On a list of titles of Brother Hart's publications there is, "An Appreciation of Leonardo da Vinci." This title, beside those of more technical publications, is illuminating in its suggestion of the breadth of Brother Hart's interests.

Finally, as of interest to Theta Tau's, it must be mentioned that Brother Hart in his university days was a charter member of Junior Tec Club, forerunner of U Techs, which later became Lambda Chapter of Theta Tau. He is also a member of Sigma Chi and Theta Alpha Phi.

Basketball Star of Omega

The scholarship and student activities of Bernard R. Buus, '35, are worthy of mention, but it is in athletics that he shines.

Besides being a letter man in track, he has been a basketball star during all of his four years in college. At the end of this last season he gained honorable mention on the all-conference team and was elected honorary captain for the season by his team mates.

He is a member of Sigma Tau and is active in Theta Tau, of course.

It goes without saying that both chapter and school will miss Brother Buus.



Collector of letters

The Picture On the Cover

The phenomenon portrayed on this Spring's cover is Old Faithful Geyser in Yellowstone Park. Brother Jack E. Haynes, Alpha '08, furnished the photograph to the U. S. Government for the five-cent denomination of the National Parks series of stamps. The issue of stamps was part of the observance of National Parks Year proclaimed for 1934 because of business

slack; Yellowstone National Park alone had more visitors than in any preceding year.

Postmaster-General James A. Farley was interested in the stamp issue and came to the Yellowstone himself on July 31, 1934. He sold the first sheet of stamps to U. S. Senator James C. O'Mahoney of Wyoming. Another block of stamps from the first sheet was presented to the Yellowstone Park museum through William H. Jackson, pioneer of the Hayden Survey of Yellowstone Park in 1871. Though more than ninety years old, Mr. Jackson came from New York to participate in the ceremony.

The accompanying picture shows Brother Haynes presenting the Postmaster-General with a picture of the Geyser for his personal collection. The other member of the trio is Lida Haynes, tiny daughter of Brother Jack. She received autographed stamps from both Postmaster Farley and Senator O'Mahoney. Her father believes that she will treasure these stamps when she grows up as much as he treasures his original gold skull Theta Tau pin from back in the days when the emblem was a skull instead of a gear.



Postmaster-General accepts a picture

Theta Man Well Along Success Road

Felix Edgar Wormser, Theta '16, E. M. Columbia University. Member Mining and Metallurgical Society of America, A. I. M. M. E., C. I. M. M., American Economic Association, American Statistical Association, Fellow of American Association for the Advancement of Science, New York State Society of Professional Engineers,

Columbia University Club, Mining Club, Westchester Country Club, Theta Tau and Delta Upsilon fraternities.

Despite his comparative youth, Brother Wormser has become prominent in his field. Immediately after graduation he began his career as a mining engineer with the Cornucopia

Mines Company in Oregon. Later he was with the Baker Mines Company. In 1917 he was appointed a U. S. Mineral Surveyor for Oregon. In 1919 he became an assistant mining engineer in the U. S. Bureau of Mines in Washington, D. C.

His career, like many others, was interrupted by the World War. He served as a private, sergeant, and second lieutenant and remained in service with the Engineers Reserve Corps until 1920. For five years he served on the editorial staff of the "Engineering and Mining Journal" and then entered practice as a consulting engineer, operating in Canada and the United States until 1929. In 1927 he was a special lecturer at the School of Mines at Columbia University in addition to his other work.

Since 1928 he has served in New York City as Secretary and Treasurer of the Lead Industries Association, an organization of the principal lead mining, smelting, refining and manufacturing companies of the country. He is also Secretary and Treasurer of the



Lets no grass grow under foot

Code Authority for the Lead Industry.

He is author of the book, "Marketing of Metals and Minerals," with J. E. Spurr (1925).

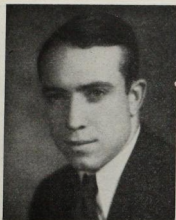
Gamma Carries Off Typical Miner Contest

It is not news for Gamma Chapter to have a winner in the Typical Miner Contest at Colorado School of Mines, for five of the seven winners since the award was established have been Theta Tau men. This year, however, both the winner and the runner-up were members of Gamma Chapter.

The name of Typical Miner is the greatest honor which can come to a senior student at Mines and it carries the privilege of his photograph on a full page of the year book. The election is sponsored by the Prospector,

the year book of the School of Mines, and consideration is based solely upon the merits of the candidates. The qualifications are that the man elected should be an all-round student, athlete, social and engineering leader.

Dent Lay, the 1935 winner, is a member of Sigma Phi Epsilon, Scabard and Blade, "M" Club, and Athletic Council. A great deal of his popularity on the campus comes from his activities in basketball and football. He is a three letter man in both sports. He is a native of Colo-

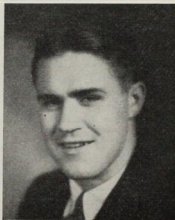


"He's the top"

rado, coming from Rocky Ford, where he was prominent in high school athletics.

George Reed, student body presi-

dent, ran Lay a close race. The non-fraternity vote, which decided the issue, was divided between Lay and Reed.



Close second

New President of A. I. M. M. a Theta Tau== Henry A. Buehler, Iota Honorary

When the meeting of the American Institute of Mining and Metallurgy was held in February, Henry A. Buehler was elected president. Brother Buehler is state geologist and director of Missouri's Bureau of Geology and Mines at Rolla.

He received his education in Wisconsin, his native state, but most of his professional life has been spent in

the state of Missouri, where he went in 1901 as assistant state geologist. In 1907 he accepted the position of geologist with the Federal Lead Company, but during the following year he took the position which he now holds.

He was elected to life membership in the American Institute in 1914 and has served on the board of directors for several years.

S. Power Warren Into Private Practice

S. Power Warren, Gamma '13, has resigned from the faculty of the Colorado School of Mines where he has taught since 1923. Brother Warren is engaging in private practice in Auburn, California.

Upon his graduation from the Colorado School of Mines he began his career of "trouble shooting," which took him to Mexico, Alaska, Spain, Ireland, and Canada. He worked from shift boss to foreman, from foreman



Practiced what he preached

to mill superintendent, and finally became internationally known as a metallurgist and mill designer. One of his most recent jobs is the new mill for the Clear Creek-Gilpin Ore Company.

Brother Warren believes that the practical mining man should become more technical and the technical college professor more practical; in other words, that there should be a happy medium. It is evident that Brother Warren has lived up to his belief.

Beta's Regnet



John U. Allen, '35, better known as Jack, is one of the most active men in Beta Chapter and, in addition, has carved a niche for himself in Michigan Tech's Hall of Fame.

Four years in the Tech R. O. T. C. has earned Jack a Cadet Captaincy, membership in Tau Nu Tau, honorary military fraternity, and membership in Tri Beta, honorary

R. O. T. C. band fraternity. Jack's ability as a sharpshooter was one of the reasons why Tech's rifle squad annexed the National Engineers' Championship in 1933.

Jack is an active member of Blue Key, student chapter of A. S. M. E., and as president of the local chapter of A. S. C. E. he has raised the club to a position of prominence on the campus.

While Brother Allen has shown unusual ability in solving problems concerning Theta Tau he has also used this ability in solving his own problems as evidenced by the fact that he will complete his four years with two degrees.

Air Transport Used in Wilds of Honduras

Modern transportation facilities have made possible the development of mines which were heretofore inaccessible. It is to such a mine in Central America that Roswell W. Prouty,

Alpha '12, has gone. The mine is located in the mountains of Honduras, near Danli, and was formerly reached only by mule back or on foot. Now, due to the impracticability of such

transportation, all equipment, supplies, and finished products will be transported by air. This will require the use of a tri-motor transport plane especially designed to carry heavy equipment, and the construction of two landing fields, one at the mine and another at tidewater.



Has no ordinary job

No satisfactory method of treating and handling the ores of this deposit was found until recently although the deposit has been known for a great many years. When interest in this property was revived, Brother Prouty was commissioned to examine and report on it, and he is now general manager in charge of operations for the Cia. Minera Agua Fria.

The development of the enterprise will include the installation of a hydro-electric power plant, approximately 20 miles of high tension transmission line, an auxiliary Diesel generating plant, rehabilitation and modernization of the mine, construction of the ore treatment plant and of a modern village to house and supply the workmen and staff.

Broders of Omicron

Prominent in Omicron Chapter is Gilbert Broders, who took an active part in the recent Mecca celebration and has otherwise made himself useful to his chapter and his school.

He is General Manager of *THE TRANSIT*, engineering magazine of the College of Engineering, and has been largely responsible for one of the best financial years the magazine has experienced. He won his spurs on the staff as advertising manager this year and as assistant advertising manager the previous year.

His vice-presidency of the Associated Students of Engineering attests his popularity.

He is a member of Scabbard and Blade, Union Board Committee, S. A. M. E., A. S. C. E. and is steward of Omicron Chapter.





Sophomore Coming Up

James Richardson, Omega '37, is only a sophomore at the South Dakota School of Mines, but he has completed a successful season of basketball by being placed at guard on the all-conference first team.

He is also a scholar and is making a strong bid for prominence on the Mines campus.

IT'S GAMMA BETA

The Editors wish to correct the statement made in the preceding issue to the effect that the George Washington University group would become Alpha Beta of Theta Tau. Due to an uncorrected assumption the wrong name was applied to the chapter. At the Arkansas Convention it was decided to avoid the letter Alpha in naming future chapters in deference to the first chapter of the fraternity. The name Gamma Beta was adopted for the new chapter and as such it was installed.

In Memoriam

JOHN PORTER LELAND, Tau '35

A few days after being elected treasurer of Tau chapter in the spring of 1934, Brother Leland met his death as the result of an automobile accident in which his fiancée was killed.

John Porter Leland was born January 2, 1913, in Morgantown, North Carolina. After a successful high school career at Mechanicsville, New York, he entered the College of Applied Science at Syracuse University in order to follow in the footsteps of his father, who was a civil engineer.

Here he became extremely active in Theta Tau as well as his social fraternity, Beta Theta Pi. In the latter fraternity he had the honor of being the outstanding freshman in his pledge class and his name was engraved on the Charles M. Sims trophy cup. In addition, several athletic trophies bear his name. He was also a member of Pi Mu Epsilon and was pledged to Tau Beta Pi.



He is survived by his mother, Mrs. Mary B. Leland, and a brother, Malcolm Scott Leland, who is a freshman at Syracuse.

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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WHAT'S YOUR ANSWER?

A short time ago the city council of one of the larger Iowa cities was making out the next year's budget. The City Engineer was called in and addressed as follows, "Mr. _____, we regret to notify you that we must reduce your salary from \$500 per month to \$250 per month."

Somewhat taken aback by this statement, the engineer replied, "I don't see how I can accept such a low figure. My manner of living, my insurance plans, and the education of my children are based upon my present salary. While I could manage a small salary cut I'm afraid it would be impossible for me to accept a fifty per cent reduction."

Replied the councilman, "I'm afraid, Mr. _____, you *must* accept the reduction. Within the last month twelve engineers have offered to carry on your duties for \$200 per month."

The engineer was thus forced by his brother engineers to accept a salary which, for him, was inadequate and which was typical of the meager compensation now granted to members of a profession requiring as much talent as any other and upon which public safety so largely depends.

An interesting sequel occurred at the same meeting. The Public Health Officer, a doctor, was also called in and informed that his salary would be cut in half.

Said the doctor, "Unfortunately, gentlemen, I cannot accept the reduction."

Replied the council, "Then you force us to secure another doctor who will accept the salary we offer."

With complete assurance the doctor answered, "You will be unable to find any doctor in this city who will take my position for a smaller amount." Realizing the truth of his statement, the council let his salary stand.

Who, in this little story was guilty of a violation of professional ethics? What does the medical profession have that the engineering profession lacks?

Brother Borgquist's address, printed elsewhere, will shed some light on the first question. The second question may best be answered by the statement that whereas the medical profession has one society (The American Medical Association), the engineering profession boasts (?) more than 90 independent and largely non-coöperating societies, practically all of which lay emphasis upon technical excellence only. As a result, the professional advancement of the members is largely neglected.

The dilemma in which the young engineer finds himself at present is one which he will eventually have to solve himself. How can we develop from our 90 societies one powerful, comprehensive society whose existence will stop our intra-competition and bring

about the standing our profession deserves?

It's worth thinking about.

SELECT OFFICERS CAREFULLY

The holding of an office in a fraternity is at once an honor and an opportunity for service. The easy thing to do, of course, is to accept the honor and pass up the opportunity to render service. Too frequently officers have taken the easy path and many fraternities and many chapters have slipped or have marked time because of the inefficiencies of their officers.

The time to correct these evils and to guard against their recurrence is at election time. We should see to it that worthy, but above all, competent men are selected to fill our offices. Campus pets and athletic heroes may make good officers, but they should not be selected solely for their popularity. Officers should be interested in the organization; willing to accept responsibility; and ready to devote the necessary time, thought, and effort required to fulfill the duties of their offices.

The greatest reward a man can receive from holding an office in Theta Tau is the satisfaction of knowing that he has accomplished something beneficial for the fraternity. Unless our officers are of the type who realize that their greatest compensation will come from service rather than from the reflected glory of their exalted positions, they are not the proper men for the jobs requiring leadership.

Remember this when you are casting your ballot at the next election. Be honest with yourself and with your fraternity. Vote for the men who will contribute most to the operation and healthy growth of your organization.

You who may be candidates, be honest with yourselves and with your fraternity. If you regard the holding of an office primarily in the nature of another honor to be passively received rather than an opportunity to be of help to your organization, you are duty-bound to correct this attitude or withdraw in favor of some one more public-spirited. Let honor be derived through service, not through position.

BOARD JUMPERS

One of the lowest forms of humanity, in our opinion, is the "board jumper,"—the man who leaves school owing his fraternity bills which he does not intend to pay. On the next rung above the board jumper is the man who leaves school intending to pay his delinquent bills and then promptly forgets his good intentions. We all realize, of course, that many students today are having a hard time financially, and while we can not endorse their business judgment in incurring bills which they have no definite assurance they can repay, we can still respect them if they feel a responsibility for the payment of debts and repay them as rapidly as possible.

Many large universities have adopted a ruling making it impossible for the student to graduate with unpaid bills. Such a ruling protects the average landlord but usually does a fraternity no good since such an organization is loathe to prevent a brother's graduation because of an unpaid fraternity bill.

Men of Theta Tau caliber should not be "board jumpers." If occasionally a member develops this tendency, the chapter should waste no time in starting corrective education. Such irresponsible and dishonorable conduct has no place in our fraternity.

Get It Off Your Chest

When this page was inaugurated last year, we hoped to secure a cross-section of our readers' reactions to certain changes in the magazine. Judging from the following letters, only the boosters have written for this issue. Contributions, however, need not concern *THE GEAR* entirely. Any suggestions, ideas, or comments which are for the good of the fraternity can be aired here.

Perhaps you agree or disagree with our editorials. Perhaps you think that the next convention should be held in Atlantic City. Perhaps you have an idea for becoming better acquainted with nearby chapters—etc., etc. Let's have it!

Right now we are wondering whether you missed the technical articles this year. We are swinging to the opinion that such articles are better left to the various technical journals, and that our field is solely the news of Theta Tau. What do you think?

Watertown, S. D., Feb. 16, 1935

DEAR BROTHERS:

I should like to compliment you on the fine publication, *THE GEAR*. I especially enjoyed the article about William Brown since I am also an amateur radio operator. I should like to have my notice in the employment service repeated in the spring number of *THE GEAR*. With the general upturn of business conditions my faith in getting a position in my chosen profession has been profoundly enhanced.

Thanking you for this service, and with kind personal regards, I remain

Yours in H and T,
KENNETH SCHMELING

Thanks, and good luck to you.

Charleston, W. Va., Feb. 18, 1935

DEAR BROTHERS:

In the 1934 fall issue I read the various letters of comment on *THE GEAR*, so here is my contribution. I thoroughly enjoy *THE GEAR*. I compliment you gentlemen on your efforts. The above issue was the best in a long while, both in appearance and reading matter. I wish *THE GEAR* came oftener.

Keep up the good work. I can't imagine how, but if I can ever be of help just mention it.

Yours in H and T,
P. S. STEPHENSON
Phi 1926

A man of rare perception—Brother Stephenson!

Piqua, Ohio, Jan. 14, 1935

DEAR BROTHER HOWE:

Your letter concerning my returned copy of *THE GEAR* was gladly received. I missed this important organ of the fraternity. Yours and Brother Mercer's work on this link among alumni and undergraduate members cannot be praised too highly.

Thanking you for your trouble in locating me, I remain

Yours in H and T,
DON S. WOLFORD

We're blushing, Brother Wolford!
—Glad to have found you.

St. Paul, Minn., Dec. 30, 1935

DEAR BROTHERS:

I think your fall number make up beats last year's. I enjoyed your personal letter section tremendously—let's have more of that sort of thing. It seems that one is always too busy in idleness to keep in touch with all of the Hammer and Tongs men that crop up here and there and your "Get it off your chest" does the trick. The value of Theta Tau friendships was brought home to me last summer when I was traveling about on the Pennsylvania Railroad. Broke bread with Brothers Van, Hopkins, Glass and Westin during that time and got the lift that Camel ads brag about. Hope Van likes the new location.

I looked for something in commemoration of our thirtieth anniversary—wouldn't some

letters from older alums be appropriate for the next issue?

Yours in H and T,
C. O. ANDERSON

Perhaps we haven't gotten over the 25th anniversary celebration. At any rate you found us sound asleep.

Greenville, N. C., Jan. 17, 1935

DEAR BROTHERS:

I offer you congratulations on the last issue

of THE GEAR—the cover is very attractive, I think . . . Am now with the Water and Light Commission, Greenville, in the capacity of switchboard engineer and operator. I find my work very interesting and fascinating as I now have an opportunity to apply my knowledge of engineering.

Yours in H and T,
D. MURRAY HOUSE
Rho '33

Hope you like this one too.

ANY OTHERS?

We are interested to see that Upsilon has pledged one man and Lambda two men whose fathers are Theta Tau's. We are wondering how many "fathers and sons" there are in the fraternity.

"You've heard what the last witness said," persisted the counsel, "and yet your evidence is to the contrary. Am I to infer that you doubt her veracity?"

"Not at all," the polite young man replied. "I merely wished to make it clear what a liar I am if she's speaking the truth."

ALL IN FAVOR?

Being in an inquisitive mood, one of the editors recently collected a map, a ruler, and a slide rule and discovered that the center of gravity of Theta Tau chapters lies in a cornfield a few miles northwest of Keokuk, Iowa. Since Brother Mercer is a resident of Keokuk he will be able to give this important point personal supervision now that it is located. Do we hear a motion to appoint Brother Mercer to the post of Official Guardian of the Center of Gravity of Theta Tau Fraternity?

"So you and Maurice are to be married? Why, I thought it was a mere flirtation."

"So did Maurice."

—National Magazine

"I wish," complained the preacher, "that I could make my flock take more of an interest in Heaven. None of them seems to want to go."

"Tell them that children under sixteen are not admitted," suggested the helpful friend.

Prof. (in Materials class): State one use of cow-hide.

Stude: It keeps cows from falling apart.

Life's made up of reverses and changes. The youngster who used to take his scout knife and nick the davenport and sink now scouts around a bit, then sinks into the davenport and necks.

Letters from the Chapters

Aeronautics Interests Alpha



quarter brought the number of actives to seventeen.

Alpha has just elected for the coming year the following new officers: Regent Graham McVickers; Vice-Regent Lee Paul; Scribe Lawrence Rollin; Treasurer Rudolph Kojola. The initiation of Jack Aiken and Rudolph Kojola during the winter

quarter Brother McVickers presented a moving picture of several reels which described graphically his trip to South America with his family. This, with some supplementary description by Brother McVickers, provided the chapter with a very pleasant evening.

Alpha has three new pledges: Robert Heising, Arthur Ronbeck and Raymond Bass. We find that Robert Heising is a nephew of Isaac B. Hanks, one of the founders of Theta Tau.

Although Alpha has not been socially active so far this year, Pledge Bennettson was



FRONT ROW—Wehmanen, Holston, Thompson, Dynesius, Nygren, Heng, Ronbeck
MIDDLE ROW—Gilruth, Bohmbach, Aslesen, Rollin, Aiken, Lang, Kojola
BACK ROW—Paul, Olson, Robertson, McVicker, Swanson, Bass

Two professional meetings have been held this year. During the fall quarter, Professor H. W. Barlow of the Department of Aeronautical Engineering gave a talk on the aeronautical industry, covering several interesting phases of the subject and illustrating his talk with slides.

At another meeting during the winter

chairman of general arrangements for the Aeronautical Engineers' annual "Take-Off." Pledge Bennettson is also a delegate to the Convention of College Flying Clubs that is to be held in Washington, D. C., on April first and second.

LAWRENCE ROLLIN

March 14, 1935

Beta Thrives on Ice and Snow



While the heavy snows this winter have made it difficult for the pledges to dig a path out to the street, they have not hindered the activities of the chapter as a whole. The annual Michigan Tech Winter Carnival sponsored by Blue Key

owed a large part of its success to the work of Bob Andrew, Jim Wilson, and several other brothers who are Blue Key members. Brother O. O. Price did a good job of describing some of the features of the carnival over radio station WHDF. Floats were entered in the parade by practically every organization on the campus including Beta Chapter. First prize was awarded to a float entered by the Civil Club, designed and built by Brother Norman Siewert. Here is a snapshot of an ice monument built in our front yard during the carnival.

Several new members have been welcomed into the chapter since the last issue of THE GEAR. They are: John Lendev, William Martin, Richard Holtz, Hewitt Sanabria, Gordon McCurdy, Peter Ambrosiani, Harry Riley, Jack Quay, and William Bennett. At present we have three pledges, namely: Alan Morrison, Raymond Rowe, and Steven Bergman.

Following the custom of electing our treasurer during the middle of the year in order for the incoming man to have the benefit of his predecessor's experience, the chapter elected Norman Siewert to this position for the coming year. He succeeds Herbert Keinath, who has done an excellent job for the past twelve months.

Allan Olson, who has been the star defenseman on the Tech hockey team for the past two years, earned a berth on the second All-Western team. The caliber of the All-Stars who were selected from the Universities of Michigan, Minnesota, and Wisconsin, besides Tech, testifies to Ole's ability.



C. I. can mean cast ice

Brothers Robert Andrew, Allan Olson and Bruce Nekervis were elected to Tau Beta Pi last fall, while Nekervis and William Bennett were initiated into Blue Key.

Brothers Robert Ferguson and Ian Reid were elected to Tau Beta Pi this spring. Brother Ferguson is a three year senior in metallurgy while Reid is a junior Civil Engineer.

Several professional meetings of interest have been held by the chapter this year. Brother Roy Drier, Associate Professor of Metallurgy, entertained us last fall with an account of his experiences aboard some of the ships of the Atlantic Fleet. About 100 photographs were used to illustrate the talk. Professor Irwin Poman of the Mathematics and Physics Department conducted an interesting discussion of ballistics before the actives and a number of outsiders. He was connected with the Aberdeen testing grounds during the War, where most of the United States army ordnance work was done.

I. L. REID

March 13, 1935

He=Man Type Predominates at Gamma

GOLDEN
COLORADO

Gamma Chapter has enjoyed a very successful year under the leadership of the following officers assisted by our chapter adviser, Brother B. B. Boatright: Regent Frank D. Thayer, Vice-Regent

Kenneth W. Daggett, Scribe Joe Kennedy, Treasurer James Colasanti, Marshal Anthony

L. Mueller, Inner Guard Otto Schmitt, Outer Guard Paul W. Smith.

We pledged and initiated the following men during the first semester: John W. Burns, Nelson, B. C.; Randolph M. West, Beaumont, Texas; John J. Christman, Denver, Colorado; and Chauncey L. Sharp, Topeka, Kansas.

Chapter activities have been numerous with Theta Taus taking the lead in all student functions and athletics. In the accompanying



Front Row—Kennedy, Olund, Thayer (Regent), Smith, Turchan, Colasanti
 Second Row—Adams, Hoffman, Mitchell, Sands, K. True, Zadra, Lay
 Third Row—Hall Daggett, Schmitt, Pardee, Morris
 Fourth Row—Warren, C. True, Mueller, Reed

chapter picture all the men are athletic lettermen except six. Among the strictly chapter

functions, Gamma Chapter had a dinner meeting at the Colburn Hotel in Denver on October 18, with Fred Farrar, prominent Denver attorney, as guest speaker. His talk on the subject, "The Relationship of Law to Engineering," was very well received and the members picked up some valuable pointers as well as hearing an enjoyable talk.

On February 12 Gamma Chapter had a farewell smoker for Brother Pi Warren '13, who resigned from his post as Associate Professor of Metallurgy to take up consulting work. Everyone wished the genial Pi the best of luck.

The annual Theta Tau Dance to be held on March 23 in Guggenheim Hall promises to be the best social event of the year with all Gamma men out helping to put it over.

The chapter will lose fourteen men through graduation this year, but with fine material coming up for next year we will continue to hold our own.

THOMAS P. TURCHAN

March 13, 1935

Delta Harbors a Swimming Champ



Through the renewed efforts of the brothers and the help of Brother Russ Glass, Grand Inner Guard, Delta chapter is on the up-grade. We have secured a new room at the Case Club where we meet on the first and third

Wednesday afternoons of each month.

Brother Paul Grossman has been one of the mainstays on the swimming team during this past season. He has distinguished himself by breaking five A. A. U. records for the back-

stroke and he has a good chance to attend the Olympic camp this summer.

Another one of the brothers who is prominent on the Case campus is "Swede" Prendergast, president of the Case Athletic Association.

At present we have thirteen active members in the chapter and five pledges. The pledges are E. J. Hyde, Ford Drees, and Bob Blackman, juniors, and Bob Wagner and C. S. Smith, sophomores.

R. G. CHAPMAN

March 12, 1935

Something Doing at Epsilon's Initiation!



Epsilon Chapter's membership of twenty-five actives will be increased this coming Saturday (March 16) by the following initiates: William Nielson, Jr., Richard Holman, Allison Solari, Donald Priest, Carl Lambrecht, and James Wilson.

This year's initiation banquet is somewhat of an innovation, and the chapter is looking forward to it with keen anticipation. The Athenian-Nile Club, the East Bay's most ex-

clusive men's club, has been secured for the evening. Professor E. A. Hersam will act as toastmaster, and Deans Probert and Louderbach have been asked to lead the oratory.

The day before initiation members of the chapter will take an active part in the running of Engineers' Day program, and the chapter itself has helped to promote the dance in the evening.

On April 5 at the Palace Hotel in San Francisco the local chapters of Tau Beta Pi, Chi Epsilon, Eta Kappa Nu, and Theta Tau are giving a joint dance.

For the remainder of the semester we are



FIRST ROW—Durell, Nielson, Gregory, McLaughlin, Van Gundy, Holman
 SECOND ROW—Isaacs, McFadden, Wilson, Thomsen, Solari, Bourret, Hersam
 THIRD ROW—Allen, Sturgeon, Suydam, Lambrecht, Kelley
 FOURTH ROW—Bramcamp, Coats, Priest, Thompson
 FIFTH ROW—Artero, Nelson, Van Wyke, Lindsay, Andregg, Fox

planning to hold bi-monthly luncheons and also have one or two other social functions, including a barbecue.

Officers this term are Regent Charles Lindsay, Vice-Regent Weston Bourret, Treasurer Alton McLaughlin, Scribe William McFadden, and Corresponding Secretary Galen Sturgeon.

Brothers Coats, Allen, and Gregory are in Phi Beta Kappa; Brothers Suydam, McLaughlin, Coats, Isaac, and Lindsay in Tau Beta Pi; and Brothers Allen, Coats, and Durell in Sigma Xi.

GALEN H. STURGEON

March 11, 1935

Drop In on Zeta==They've Got a Good Cook

LAWRENCE KANSAS

Since the initiation of five men on March 3, Zeta Chapter has twenty-three active members and twelve pledges. The new initiates are: Keith Willey, Clifford Willis, Tom Longshore, Duane Main, and Fred Smithmeyer. George Russel, Wesley Moreland and Charles Beard are our new pledges.

At the spring election the following men were chosen as officers: Edward Heter, regent; Robert Russell, vice-regent; Lewis Benz, treasurer; Clifford Willis, scribe; Tom Longshore, corresponding secretary.

Zeta Chapter's famous cook, "Trudy," has been feeding us so well that we are kept constantly on the go trying to work off the enormous amount of energy we consume. As a result we rank high in all activities at the Engineering School. As reported in our last letter, we have men active in Sigma Tau,

Engineering Student Council, Tau Beta Pi, Scabbard and Blade, Mortar and Ball, Tau Nu Tau, Steel Key, A. S. C. E., A. S. M. E., A. I. E. E., and A. I. M. E.

In addition to previously mentioned activities, Robert (Dan) McKim, Lloyd Christianson, Riley Woodson, William Carter and Lewis Benz are officers in their respective R. O. T. C. units and William Carter, Keith Willey, Ford Dickie and Howard Miller are on the staff of the Kansas Engineer.

These extra-curricular activities do not seem to be a sufficient outlet for all of the above mentioned energy, so we have been putting the remainder into Intramural Athletics. We succeeded in winning a very close second in intramural wrestling, losing the tournament by only a single fall. Our basketball team tied for first place in its division and entered the final play-offs only to be eliminated in the semi-final game.

EDWARD D. HETER

March 13, 1935

Theta Has a Finger in Every Pie



The election of officers for next year was held on March 11 and the following men were elected: Albert J. Smith, regent; Rafael de Carrera, vice-regent; William F. Shaughnessy, treasurer; William Lyons,

Auer, scribe.

Three new initiates were taken into the fold on December 14, 1934, which brings the total number of actives up to 15. These newer members are William Lyons Auer, Albert J. Smith, Charles M. McCormack. After the formal initiation a banquet was held at Franklyn Inn and it was a very pleasant affair.

Spring rushing is under way. So far, we have six pledges. Pledge Irwin Gould is treasurer of the senior class of Columbia Col-

lege. Pledge J. O. Osterberg is manager of the University Band.

Actives Spellman, Boyd and Stringer, and Pledge Rigby played on the Engineering basketball team. Besides being a member of Tau Beta Pi, Senior Society of Dumbbells, Student Council, and Year Book Staff, John Bose has been elected to Epsilon Chi.

Banchero has been elected to the chemical honor society, Phi Lambda Upsilon. Joseph Britz is a member of the Varsity Wrestling Team and received the scholarship room for the year 1934-35. Theta men in Tau Beta are: Sinacori, Quilty, Bose, Banchero, Geoghegan. The Dumbbells include Britz, Spellman, Bose, Stringer, and Geoghegan. Bose, Geoghegan, Sinacori, Quilty and Boyd are on the Year Book Staff. Bose and Smith are senior and junior class presidents, respectively.

WILLIAM LYONS AUER

March 11, 1935

Iota Breaks Into Who's Who (of College Students)



Our chapter at present consists of seventeen men, many of whom have accomplished a great deal both scholastically and in extra-curricular activities. Brothers D. W. Dutton, R. J. Knoll and G. T. Nolde were elected to

Phi Kappa Phi. Brothers H. D. Dallmeyer, J. R. Hubbard, R. J. Knoll, W. H. Schwalbert, J. C. Turk and R. L. Fisher joined our other brothers in Tau Beta Pi.

Recently five men from the Missouri School of Mines campus were placed in the Who's Who of College Students. Four of these men were Brothers D. W. Dutton, O. W. Kamper, A. P. Koopman and H. D. Dallmeyer. We have seven men in Blue Key, and Brother Dallmeyer is director of Alpha Psi Omega. Brother G. O. Nations has recently been elected editor of the school paper for the coming

year. Brother A. P. Koopman is president of the senior class. Various other offices on the campus are held by men of the chapter.

During February Doctor Fulton, the Director of the School, talked to Iota Chapter on "Engineering as a Profession." His talk was followed by a round-table discussion. At various other meetings active members and alumni have given talks on subjects peculiar to their various branches of engineering.

The chapter is working in conjunction with other organizations on the M. S. M. campus to inaugurate an Engineers' Day, which festivity is to take place early in May.

We have made plans for the election of new men to Iota Chapter, but due to various interruptions, the greatest of which was the annual St. Pat's celebration, we have not pledged any men yet. However, it is our earnest desire to complete the pledging before the end of March.

H. D. DALLMEYER

March 15, 1935

Kappa Excited About a Picnic



The faculty members of the chapter are planning the annual picnic for the actives. The date is still indefinite but will probably be set for some Sunday in the latter part of April. Professor Putnam will act as chef as he has in past years.

On April 13 the members of the College of Engineering will hold their first Open House, which they hope to make an annual event. Its purpose is to provide prospective students with an opportunity to see what the College offers. Our faculty members are leaders on the committees working out the minute details essential to the success of the

occasion. The active chapter is backing the idea one hundred per cent. We have been assigned to the program committee and are working out other departmental details.

The active chapter is composed of the following men: Poll, Baur, Kirkpatrick, Tassik, Giles, Parquette, Reichmann, Merle, Townsend, Bronn, Fitzgerald, N. Jeppesen, G. Jeppesen, and Betts. The last named is a member of Tau Beta Pi.

The officers for this semester are: regent, Baur; vice-regent, Kirkpatrick; treasurer, Merle; scribe, Townsend; corresponding secretary, Reichmann. We hold dinner meetings every other Thursday night and are carrying on an extensive rushing campaign at present.

ALBERT REICHMANN

March 14, 1935

Lambda Is Taking in Sons of Alumni



Lambda Chapter now has 26 active members. Nine members were absent when the accompanying picture was taken. Ralph W. Whitson, James A. Wheelwright, R. Walter Fowler, Duane O. Wright, John O. Reeve,

Pugsley and Robert Dobson were initiated December 2, 1934, and Myron W. Mellor, Clifford J. Okeson, James Ivers, Jr. and Richard S. Reinhold were initiated March 3, 1935.

The new pledges are Earl G. Van Law, Jr., T. Payne Monahan, William J. Murray, Albert Z. Richards, Jr., son of A. Z. Richards, Lambda '05, Clayton H. Kimball, brother of John F. Kimball, Lambda '25, and Edwin C. Shipp, son of C. B. Shipp, Lambda '15.

Harry M. Williamson, Verne S. Peck, Don W.



FRONT ROW—Adrain Wheelwright, Biard Anderson, Lowell Morgan, Duane Wright, Harry Williamson, Maurice McKendrick, Don Pugsley

MIDDLE ROW—Joe Miller, Howard Barlow, Richard Reinhold, Don Newsome, Robert Dobson, Elmer Butler

BACK ROW—Myron Mellor, Verne Peck, John Reeve, Robert Woodhead

At the first initiation Brother R. A. Hart, State Engineer for Utah under PWA was the speaker. Dr. H. T. Plumb, Lambda honorary, was the speaker at the last initiation.

Last quarter a very successful informal dinner dance was held at a downtown night club. Another such party is being planned for some time in May.

The annual Engineers' Roundup will be held the week beginning March 25. Vice-regent Harold Greene is General Chairman, and Regent Baird Anderson president of the

Engineering Society. Most of the committees for the Roundup are members of Lambda Chapter. An additional feature which is being planned is a baseball game between Lambda and the local chapter of Sigma Gamma Epsilon.

Brothers Joe T. Kingsbury, Harold F. Greene, Fred Van Woerkom and Don W. Pugsley are members of Tau Beta Pi, and Brothers Kingsbury and Pugsley are members of Phi Kappa Phi.

MAURICE MCKENDRICK

March 14, 1935

Was the Cup Empty, Mu?



On the eleventh of December Mu Chapter initiated Milton Ellis, William Hansford, Norman Campbell, Pete DeFazio, and Charles Wetzal, making our present membership twenty-two. The chapter lost three of its

most outstanding members the first semester when Richard Nolde, Don Merillat and Pete Nevers graduated. We have heard that all three of these men have found engineering positions but we have not been able to verify the rumors as yet.

We held our annual second semester smoker on March 14 and we expect to pledge several

of the men. At this smoker Professor Maxwell, a Mu alumnus, gave a brief history of Theta Tau. Professor Dahlene was the speaker of the evening.

Fellowships in chemistry, mechanical engineering, physics, and aeronautics are held by members of Mu Chapter. Two of our members, Edward Bragunier and Thomas Simpson, were tapped for Tau Beta Pi this spring bringing our representation up to nine.

Mu Chapter will award a loving cup to the most outstanding senior engineer. The presentation will be made at the engineer's annual St. Pat's Dance. This candidate will be selected by a group of the engineering faculty.

THOMAS SIMPSON

March 16, 1935

What's Your Rushing Secret, Nu?



Since our last writing, seven men have been initiated into Nu Chapter of Theta Tau. They are R. W. Carlsen, E. W. Cheeseman, L. K. Jetter,

R. C. Krapf, Richard Lightcap, Melvin Morrison and Alfred A. Nickel. We started the spring season with 33 active members. At our last evening meeting committees were appointed and plans were made for rushing so that our "calling" may be done at Carnegie's annual Spring Carnival.

By way of activities, Nu Chapter has spent a great deal of time in revising the requirements for the All-Engineering Award which is given each year to the most promising senior engineer.

Also, we have Brother Cole as president, Dervaes as vice-president and Morrison as a

member of the student chapter of the A. I. C. E. which is doing its part to keep the chemistry and chemical engineering courses what they are at Carnegie.

Brother Hanna, Nu Chapter's former regent, will leave us this year, to the regret of all the brothers. The new officers are: Regent, Robert C. McMaster; treasurer, Prof. J. M. Daniels; vice-regent, J. C. Latham; corresponding secretary, Albert R. Dervaes; scribe, Walter Applegate.

We are still actively represented in Tau Beta Pi, Pi Tau Sigma, A. S. M. E., Tri-Publications and the college newspaper. In addition to these activities, which were reported in our last letter, Brother Dana is president of the Senate of the College of Engineering. Roberts, Hanna and Stafford all hold high ranking positions in the R. O. T. C. Dervaes is one of Carnegie's varsity riflemen. Stafford

and Dervaes also are members of the Dormitory Council. Ashbaugh and Dana are members of the Student Council.

Letters come in from time to time from

our brothers who have gone out into the world and we are proud to say that their reports of employment are most favorable.

ALBERT R. DERVAES

March 11, 1935

Omicron Cavorts in Mecca Show



On February 17, Rex Sayre, Fred Kubias, Wendell Phillips, Eldo Kurtz, and Charles Folwell were initiated into Omicron Chapter. This brings our membership to twenty-

one, of whom twelve are living in the house. Our new pledges are Clifford Barnard, Robert Krouse, Paul Webber, Frank Junk, Wayne Wipert, and Richard Box. Our present officers are Regent O. W. Perry, Vice-Regent Stiver, Scribe Sherod, and Steward Broders.

In extra-curricular activities, Omicron men are all there. The most outstanding in this respect is J. Phillips McClintock, who was chosen Cadet Colonel of the University of Iowa R. O. T. C. and who is a member of the Varsity swimming team. The Transit, magazine of the Engineering College, has a

Theta Tau in every important position. Brother O. W. Perry is a member of R. E. I. and a member of the Transit staff, and Brothers Gilbert Broders, and Francis Cooke are members of Scabbard and Blade.

Our annual Christmas party was held December 20 with the usual entertainment by the pledges. We have had two successful radio parties and are planning a spring dinner dance to be held at the house.

Omicron was quite active in Mecca this year with several men in the show and chorus and several men on each committee. Three of the four officers of the Associated Students of Engineering were Theta Tau's.

Our present athletic activities are volley ball and kitten ball in the interfraternity bout. We have hopes of bringing home a cup or two.

D. O. MARSTELLAR

March 15, 1935



FRONT ROW—Prof. Holt, Evers, Stiver, Cocke, Olney Perry, Broders, Prof. Mavis, Sherod, Marsteller

SECOND ROW—Sayre, Krouse, Bachkes, McClintock, John Perry, Weber, Hamilton, Junk, Kurtz

THIRD ROW—Robinson, Burton, Phillips, Folwell, Wipert, Thomas, Barnard, Kehe, Zalesky

BACK ROW—Lohse, Putman, Noble, Vestermark, Kubias, Smith, May, Nelson

Pi Initiates Honorary Member



Pi Chapter with its 28 members has had four meetings in 1935 to take care of dance and picture arrangements, athletics, and initiation. We feel that the meeting of February 21 was the most important meeting this year for on that date Pi formally initiated into Theta Tau a new honorary member, Frederick Tracy Morse, Associate Professor of Mechanical Engineering at the University of Virginia.

One of the best dances of the current season was the annual Engineers' Dance on February 22, sponsored by Pi Chapter and Trigon, local engineering fraternity. It was such a howling success that we are looking forward to having more dances like this one. Eleven of our alumni were back for the occasion; they were Brothers Doswell, George, Hawkins, Joachim, Glunt, Allen, Lafferty, Harper, Hammond, Bowles, and Pat Kelley.

Pi Chapter was well represented at the installation of Gamma Beta Chapter in Washington on March 16. Brother Franke acted as Grand Outer Guard on the installation team. Several active and alumni members were present also to help the success of the installation.

H. B. Edwards is official student A. S. M. E. delegate from Virginia to the A. S. M. E. convention in Knoxville, Tennessee, on March 25th and 26th. H. B. is vice-president of Tau Beta Pi here at Virginia.

W. L. Davis, Jr. is treasurer for the A. S. C. E. student branch at Virginia and Barth Gilchrist is secretary. L. W. Ballard, Jr. is president of A. I. E. E.

The combination of fall pledges and old members gave Pi material for a strong team but we couldn't quite make the championship round in the Interfraternity Touch Football Tournament last fall. Pi split four games, winning two and losing two games. During the past winter term a squad of seven members, led by Brothers Cowgill and Landis won four games straight in the Interfraternity Basketball Tournament and then lost to the Phi Alphas in the final game, narrowly missing another division championship. With practically the same team back next year the chapter hopes to reach the championship play-off—or else.

Joseph Cowgill is a prospective outfielder on the varsity nine.

PAUL W. FITZPATRICK
March 15, 1935

Sigma's Activities Mainly Curricular



At the present time Sigma Chapter, in the midst of Winter Quarter Finals, is burning the old midnight oil in those few remaining hours, boning up on that last chapter of mechanics or getting out a belated report. Last quarter Sigma ended up with a record point average of 2.85 and we are wondering—can we duplicate it?

Newly elected officers are J. F. Sullivan, regent; John Boylan, treasurer; and Robert Frazier, corresponding secretary. Our past regent, Brother Arden R. Hacker, has led us through a very successful year, and to top it off he made Tau Beta Pi. Other Tau Betes include Brothers C. C. Griffith, R. F. Kymer, F. P. Marquis, J. H. McFee, W. A. Schaich, and Pledge H. M. Crusey. Brother Schaich also was initiated into Eta Kappa Nu, honorary electrical engineering fraternity.

Our most recent initiates are J. J. Visintine, F. D. Haag, R. Y. Frazier, and L. P. Lambrou,

making the present number of actives eighteen. Brother J. C. Prior was the speaker at the initiation banquet.

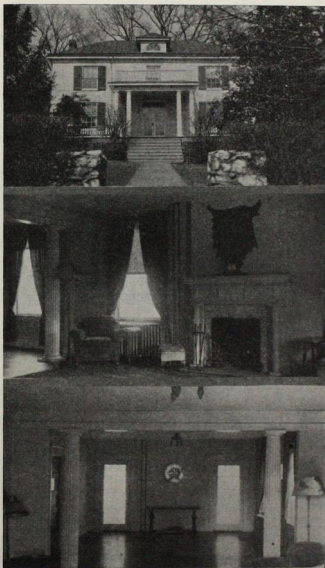
Sigma now has nine new pledges: W. R. Ellis, Norman Schoewe, J. E. Finneran, C. D. Fischer, C. B. Hickman, I. B. Penniman, R. G. Rymer, H. M. Crusey, and H. R. Miller.

Our weekly dinner meetings have worked out successfully. Among our more recent speakers were General Harold Bush, who is in charge of the transient camps in Ohio, Brother William Davis of the Photography Department of O. S. U., C. R. Sutton, University Landscape Architect, Dr. Joseph Koffolt of the Chemical Engineering Department. Our alumni were in charge of one of the meetings.

In intramural basketball Sigma finished runner-up in its flight. Our outstanding player was Pledge Carl "McFee" Fischer.

Alumni are urged to attend our Spring Formal at the Brookside Country Club on May 18.

CHARLES B. SMITH
March 15, 1935



TOP—Pi chapter house
 CENTER—Living room
 BOTTOM—Dance floor

Tau Engineers Engineers' Banquet



The big event of the year for the chapter is the annual Engineers' Banquet. The event is the only all-engineers' function of the year. It has been a great success in the past but is expected to surpass itself

this year. The present ticket sale shows an increase over last year when the attendance was 270. Brother Carle is the chairman of the affair and is assisted by all the chapter.

Harold Crampton; treasurer, Frank Salmon.

We are proud of the fact that many of our men are prominent in student affairs: Brother Mitchell is Student Senator from Applied Science, Chairman of Engineering Executive Committee, and member of A. S. C. E., Banquet Committee, and Phi Kappa Psi social fraternity. Brother Salmon is a member of A. S. C. E. and Kappa Sigma. Brother Burrell is a member of A. S. C. E. and Beta Theta Pi. Brother Joslyn is leader of the Engineers Orchestra, a member of A. S. C. E., Kappa Sigma and R. O. T. C. Brother



FRONT ROW—Sterling Mitchell, Frank Salmon, Beverly Burrell, Walter Carle, Edward Joslyn
BACK ROW—Philip Linscott, Allen Wescott, Richard Freyberg, Prof. Berry, Robert Garland, Conrad Reinhard, Robert Dodds, Bernard Vieaut

Second semester rushing is getting under way and our prospects are very good. We are planning the annual initiation banquet to follow the pledging and the initiation. We also have a committee in charge of the annual dinner-dance which takes place in May.

The officers for the past year have been a hard-working group and have built the chapter much stronger than it has been in several years. Regent, Beverly Burrell; vice-regent, Walter Carle; scribe, Edward Joslyn; marshal,

Carle is president of A. I. E. E. and chairman of the Banquet Committee. Brother Crampton is president of the A. S. C. E., president of Honor Committee, a member of Engineering Executive Committee and Sigma Phi Epsilon.

The chapter is at present making plans to help keep in touch with the alumni, and by next year we will have a complete record of each alumnus from our chapter.

HAROLD CRAMPTON

March 13, 1935

Upsilon's Sixth Consecutive St. Patrick Reigns



During the fall semester of this year Upsilon initiated three men and received two pledges. The pledges are: W. B. Stelzner, Jr., Fayetteville, Arkansas, and J. W. Niven, Memphis, Tennessee. This gives us a total enrollment

ment of twelve men who are affiliated with

the chapter. Officers of the chapter remain the same as last semester.

At a recent meeting members of Theta Tau and Alpha Kappa Psi business fraternity discussed plans for a formal dance to be given jointly by the local chapters of these two organizations during the latter part of the month of March. This affords an excellent opportunity for rushing.

Brother T. Burton Lewis will receive the

Theta Tau plaque at the annual engineers' banquet on March 14, as outstanding engineer of the senior class. Brother Lewis is active in many organizations on the campus and is truly worthy of this distinction.

For the sixth consecutive year a Theta Tau candidate has been elected by the General Engineering Society to reign as St. Patrick at

the exercises on that day. Brother Harold W. Ward was selected to fill the position this year.

Exhibits for Engineers' Day will not be shown until April, and, as we did last year, the chapter will erect an information booth and publish a guide for visitors.

HAROLD W. WARD

March 13, 1935

Those Phi Men Do Most Anything



man has been pledged.

Brothers H. C. Scott and L. R. Sedlar did not return to school for the second semester. Brother Scott is now at the University of Alabama, and doing well, we hear. Brother H. G. Stech was elected secretary to fill the vacancy created by the departure of Brother Scott.

The chapter has recently held two professional meetings. Prof. R. N. Shreve of the Chemical Engineering School spoke on February 13 on the "Reminiscences of a Chemical Engineer." On March 12 Brother W. E. Gray spoke on "Railway Draft Gears." Both meetings were very interesting and were well attended.

The total membership of Phi Chapter at present is 13 actives and 5 pledges. Since our last letter, the following men have been initiated: H. G. Stech, W. R. Zweig, T. W. J. McCreadie and Nick Trbovich. G. L. Her-

Activities are claiming the time and attention of quite a few of the boys. N. R. Moser, after having received a minor letter for basketball, is now busily engaged with the baseball squad. G. B. Roberts and T. W. J. McCreadie are in the Glee Club. L. D. Parsons and John Smethers are with the Archers. G. B. Roberts is in the Concert Choir.

T. W. J. McCreadie is taking an active part in dramatics as a member of the Purdue Playshop. He now has the lead in the production "Outward Bound."

As for honors, Tau Beta Pi elected D. C. Horsmann. The following men were rated as Distinguished Students for the last semester: S. J. Seitsma, A. W. Rankin, J. E. Burroughs, Nick Trbovich, and D. C. Horsmann.

New officers who will be installed April 1, 1935, will be John H. Smethers, regent; Harmon G. Stech, vice-regent; Thomas McCreadie, scribe; Norman R. Moser, treasurer; William R. Zweig, house manager; Nick Trbovich, steward.

H. G. STECH

March 11, 1935

Grand Scribe Finally Reaches Chi



ter-dinner speaker; Brother Magee as toastmaster was in rare form, and the new members came through with some clever skits. The initiates were Thomas Conroy, James Michaelson, Harry Lindsay, William Hrdwick, and John Draeger.

Chi Chapter topped off a very successful first semester with an initiation and a banquet just before Christmas. The banquet was held at the Pioneer Hotel in Tucson. Brother Borgquist upheld his reputation as an af-

Another event of the first semester was the stag bridge party which Professors Borgquist and Jimerson give us every year. It was held at the home of Brother Jimerson, and if all reports are true it was the best party of its kind to date. What the brothers lacked in ability they made up for in spirit. Brother M. L. Thornburg, our honorary member, showed himself to be the "cream of the crop" at this popular pastime.

Soon after the beginning of the second semester the election of officers for the year was held, the new cabinet being: regent, George Houston; vice-regent, John McNary; treasurer, William Adair; scribe, William

Sloan; corresponding secretary, John Draeger. The retiring officers, Collin Powell, George Houston, Henry Raymond, Frank Keller, and Clinton Ring deserve and received the thanks of the chapter for the able manner in which they led Chi Chapter through the past year.

Plans are well under way for the annual celebration of Engineer's Day here. Theta Tau has taken an active part in helping to formulate them and everything is all set to click. One of our members, Brother George Paul, will serve as Chief Generalissimo. The

on the C. C. C. work of which he is in charge at Colossal Cave near Tucson. He showed many splendid pictures of his work there and invited us all to come and inspect the new construction work. After the meeting the usual bull session with cats was mighty popular.

Chi Chapter was made especially happy last semester by the long awaited visit of our Grand Scribe, Brother Erich J. Schrader who spent several days here. We held a chapter banquet in his honor and had several informal



FRONT ROW—Thornburg, _____, Ring, Powell, G. Houston, Hardwick, Minton

MIDDLE ROW—Draeger, Berra, Turner, Kelly, Adair, Keller, Lindsey

BACK ROW—Borgquist, Phillips, Lane, Conroy, C. Houston, Jimerison, McNary, Gardner

celebration will include a picnic, with the famous southwestern barbeque, followed by another of the series of ball games with the Miners and Mechanicals vowing vengeance on the Civils and Double E's for the defeats last year. Last but not least will be the dance, St. Pat's Kayley, which will be held this year at the Tucson Country Club.

With the election of officers has come the need of new pledges. For this purpose we have held one open meeting so far to which men who fit the standards of Theta Tau were invited. The group had the privilege of hearing Brother R. L. Houston, '31, speak

meetings with him. After a careful inspection of our books and the condition of the chapter, he gave us many suggestions which we found inspiring and helpful.

Theta Tau is planning a spring dance with Tau Beta Pi which also promises to be a success.

An interesting sidelight to all those brothers who have endured a tough winter is that right now, here in Tucson, on the tenth day of March it is SNOWING and SNOWING and SNOWING, for the first time in "yars and yars."

JOHN DRAEGER

March 10, 1935

Psi Plans Birthday Party==Just Three Years Old



Psi Chapter now has fifteen active members and seven initiates. Our next initiation is planned for the latter part of March, at which time the following men will be in-

initiated: Bernard R. Tarrant, Albert J. Rambosek, Glenn C. Reed, Charles W. Norcott,

Thomas B. Linn, Sam A. Quick, Walter H. Parken.

The chapter is looking forward to a dinner party to be given on the 13th of March. It is expected that some thirty-five of the fellows will attend the function, invitations having been sent to all local alumni. Brother McGlone of Gamma Chapter will speak to us.

Plans are being made for the spring party

in observance of Psi's installation as a chapter of Theta Tau.

Psi has maintained its scholastic position among the leaders of the organizations on the campus of the Montana School of Mines. John Cook carried off the individual honors of the chapter.

Brothers Williams, Johnston and Hosea have been active in the founding of the Copper

Guards, a local service organization on the campus.

Alfred Bloom, George McCracken, Dave Jones and Charles Trueworthy will graduate this spring. Brothers Jones and Trueworthy are the last of Psi Chapter's active charter members.

HAROLD L. HOSEA

March 11, 1935

Omega Man Next Football Captain

**RAPID CITY
S.D.**

Omega Chapter has had a very successful year, having been especially well represented on all athletic teams and also in class offices and honorary societies. The chapter will lose eight men

On February 7 a pledge banquet was held at the chapter house in honor of the new men.

At the close of the football season Brother Raymond Versaw was elected captain of the squad for next fall to succeed Brother J. H. Schipke. Eight of the eleven men on the football team were Theta Tau men. Brother



FRONT ROW—Teed, Skog, Olson, Swearingen, Versaw, Berry, Folds, Mulcahy, Trantina
MIDDLE ROW—Flint, McElwain, Bohac, Atwater, Burleson, Muckler, Brandvold, Rosenow,
Gillmor, Carey, Heald
BACK ROW—Prof. Rowe, Buus, Schipke, Shane, Doolittle, Dorwin, Gagstetter, Fortchner,
Grow, Prof. Martin, Brown, Murphy, Gremmels, Davis

by graduation this spring but a large group of pledges will take their places.

Pledging took place on February 3 and ten new men were pledged. The new pledges are Harold Buus, Lennox, S. D.; Robert Flint, Watertown, S. D.; Robert C. Smith, Lead, S. D.; Donald Quinney, Sioux Falls, S. D.; Daniel O'Keefe, Pierre, S. D.; Walter Brown, Elk Point, S. D.; Charles Bruggeman, Rapid City, S. D.; and Howard Heald, Ralph Atwater and Robert Hunt, all of Rapid City.

Richardson was placed on the all-conference team as guard, and Brother Buus and Pledge Hunt received honorable mention.

Brothers Versaw and Gillmor were recently elected to Sigma Tau, honorary fraternity.

RALPH M. SHANE

March 13, 1935

Addendum to Omega Chapter Letter

At Omega's annual spring election on March 21, 1935, the following officers were elected:

Donald Gillmor, regent; James Richardson, vice-regent; Wyndham Folds, scribe; Raymond Veisaw, corresponding secretary; William Carey, marshal; Keith McElwain, inner guard; and William Gremmels, outer guard. Earl Rosenow was elected house manager in January.

On Sunday, March 24, formal initiation will be held at the chapter house for five new

men: Robert Flint, Watertown, S. D.; John Trantina, Wagner, S. D.; Walter Brown, Elk Point, S. D.; and Ralph Atwater and Howard Heald, Rapid City, S. D. In the evening a banquet will be held at the Alex Johnson Hotel in honor of the initiates and to commemorate the third anniversary of the installation of Omega Chapter of Theta Tau.

RALPH M. SHANE

March 23, 1935

Latest Initiates

ALPHA

- 389 Ronald Robertson, White Bear Lake, Minn.
- 390 Robert Gitruth, East Duluth, Minn.
- 391 Graham D. McVicker, Minneapolis, Minn.
- 392 Fred Lang, White Bear Lake, Minn.
- 393 Robert Aslesen, Minneapolis, Minn.
- 394 Jack Aiken, Fargo, N. D.
- 395 Rudolph Kjola, Hibbing, Minn.

BETA

- 377 Robert T. Ferguson, Jr., Muskegon, Mich.
- 378 Norman R. Siewert, Flint, Mich.
- 379 Robert N. Hafemeister, West Allis, Wis.
- 380 Edgar C. Wallace, Munising, Mich.
- 381 Allan F. Olson, Marquette, Mich.
- 382 Sheldon H. Reynolds, St. Clair Shores, Mich.
- 383 Edward A. Krieg, Jr., Marquette, Mich.
- 384 Carl J. Bjork, Ishpeming, Mich.
- 385 John W. Lendved, Menominee, Mich.
- 386 Florindo P. Ambrosiani, Oneida, N. Y.
- 387 William Alden Bennett, Houghton, Mich.
- 388 John Homer Quay, St. Ignace, Mich.
- 389 Gordon W. McCurdy, Virginia, Minn.
- 390 Hewitt Nicolas Sanabria, Laurium, Mich.
- 391 William F. Martin, Laurium, Mich.
- 392 Richard Dean Holz, Jackson, Mich.
- 393 Harry D. W. Riley, Chicago, Ill.

GAMMA

- 445 George H. Adams, Golden, Colo.
- 446 Carl L. Morris, Golden, Colo.
- 447 Kenneth W. Daggett, Golden, Colo.
- 448 Thomas P. Turchan, Golden, Colo.

DELTA

- 351 James R. McKinney, Cleveland, Ohio
- 352 Paul R. Grossman, Cleveland, Ohio
- 353 Wayne C. Smitkey, Cleveland, Ohio
- 354 James J. Prendergast, Cleveland, Ohio

ZETA

- 340 Lloyd Christianson, Hiawatha, Kans.
- 341 Edward Heter, Scotia, N. Y.
- 342 Max Lamm, Parsons, Kans.
- 343 Karl A. McDonnold, Kansas City, Kans.
- 344 Charles K. Willey, Eureka, Kans.
- 345 John T. Longshore, Kansas City, Mo.
- 346 Clifford L. Willis, Fredonia, Kans.
- 347 Duane Owen Main, Kansas City, Mo.
- 348 Frederick H. C. Smithmeyer, Topeka, Kans.

THETA

- 201 Irving J. Britz, Buffalo, N. Y.
- 202 Julius J. Banchemo, New York City
- 203 Lester B. Pope, Jr., Brooklyn, N. Y.
- 204 Rafael de Carrera, Havana, Cuba

KAPPA

- 426 Albert Reichmann, Wilmette, Ill.
- 427 H. D. Townsend, Warren, Ill.
- 428 W. A. Merle, Melvin, Ill.
- 429 W. W. Betts, Rockford, Ill.
- 430 N. A. Brown, Cicero, Ill.
- 431 J. F. Fitzgerald, Cicero, Ill.
- 432 Norman L. Jeppesen, Joliet, Ill.
- 433 Gordon L. Jeppesen, Joliet, Ill.

LAMBDA

- 313 Howard P. Barlow, Clearfield, Utah
- 314 Joe W. Kingsbury, Salt Lake City, Utah
- 315 Lowell W. Morgan, Salt Lake City, Utah
- 316 Fred Van Woerkom, Ogden, Utah
- 317 Ralph W. Whitson, Chinook, Mont.
- 318 Joseph A. Wheelwright, Ogden, Utah
- 319 R. Walter Fowler, Ogden, Utah
- 320 Duane O. Wright, Salt Lake City, Utah
- 321 John O. Reeve, Ogden, Utah
- 322 Harry M. Williamson, Ogden, Utah
- 323 Verne S. Peck, Salt Lake City, Utah
- 324 Don W. Pugsley, Salt Lake City, Utah
- 325 Robert H. Dobson, Salt Lake City, Utah
- 326 Myron W. Mellor, Manti, Utah
- 327 Clifford J. Okeson, Salt Lake City, Utah
- 328 James Ivers, Jr., Salt Lake City, Utah
- 329 Richard D. Reinhold, St. Francis, Kansas

MU

- 186 Norman J. Campbell, Brighton, N. Y.
- 187 Peter K. Gwin, Jr., Meridan, Miss.
- 188 Emmett A. Parrish, Campbellton, Fla.
- 189 Robert N. Sturdevant, Knoxville, Tenn.
- 190 Herman C. Schwabe, Brooklyn, N. Y.
- 191 John H. Colton, Jr., Cortland, N. Y.
- 192 William E. Ryburn, Morristown, Tenn.
- 193 Russell Lancaster, Tuscaloosa, Ala.
- 194 Cliff Atkinson, Jr., Tuscaloosa, Ala.
- 195 Paul Barattini, New York City
- 196 Michael Jezierny, Bridgeport, Conn.
- 197 John Aldridge, Mobile, Ala.
- 198 Peter G. De Fazio, Long Branch, N. Y.
- 199 William E. Hansford, Tuscaloosa, Ala.
- 200 Charles M. Wetzel, Hegins, Pa.
- 201 Giles M. Ellis, Jr., Tuscaloosa, Ala.

NU

- 240 Walter Applegate, Pittsburgh, Pa.
- 241 J. E. Born, Coraopolis, Pa.
- 242 A. R. Dervae, Tampa, Fla.
- 243 P. H. Ditzler, York, Pa.
- 244 L. W. Ingold, Pittsburgh, Pa.
- 245 J. C. Latham, Mars, Pa.
- 246 R. C. McMaster, Wilkinsburg, Pa.
- 247 H. J. Mitchener, Rochester, Pa.
- 248 A. E. Ralston, Southington, Conn.
- 249 G. E. Simpson, Pittsburgh, Pa.
- 250 B. S. Westerman, Pittsburgh, Pa.
- 251 Robert W. Carlsen, Lorain, Ohio
- 252 Evans W. Cheeseman, Coffeyville, Kans.
- 253 Lawrence K. Jetter, Williamsport, Pa.
- 254 Robert C. Krapf, Pittsburgh, Pa.
- 255 Richard Lightcap, Pittsburgh, Pa.
- 256 Melvin Morrison, Turtle Creek, Pa.
- 257 Alfred A. Nickel, New Haven, Conn.

OMICRON

- 191 Peter Bachkes, Cedar Rapids, Iowa
- 196 Robert R. Melson, Rolfe, Iowa
- 197 John S. Perry, Oskaloosa, Iowa
- 198 Garlin A. Robinson, Clinton, Iowa
- 199 Earl A. Stamos, Des Moines, Iowa
- 200 Merle W. Zalesky, West Branch, Iowa
- 201 Frederic F. Kubias, Cedar Rapids, Iowa
- 202 Milford A. Phillips, Dumont, Iowa
- 203 Rex Sayre, St. Charles, Iowa
- 204 Eldo M. Kurtz, Clarion, Iowa
- 205 Charles E. Folwell, Davenport, Iowa

PI

- 151 George D. Priestman, Elizabeth, N. J.
- 156 John T. Rucker, Jr., Lynchburg, Va.
- 157 Barth Gilchrist, Newburgh, N. Y.
- 158 Edwin Armentrout, Goshen, Va.
- 159 Chauncey M. Gilbert, Jr., Charlottesville, Va.
- 160 J. Yates Brown, Jr., Charlottesville, Va.
- 161 John B. McGaughy, Jr., Virginia Beach, Va.

- 162 Peter Ferrer, Jr., Bilbao, Spain
- 163 Charles G. Armstrong, Charlottesville, Va.
- 164 Hebert J. Landis, Jr., Belleville, N. J.
- 165 Joseph M. Cowgill, Paulsboro, N. J.
- 166 William E. Caldwell, Jr., Washington, D. C.
- 167 David J. Swing, Charlottesville, Va.
- 168 Vincent W. Starke, Crozet, Va.
- 169 Frederick T. Morse (hon.), Charlottesville, Va.

SIGMA

- 166 John D. Boylan, Powell, Ohio
- 167 John S. Ksepko, Cleveland, Ohio
- 168 John V. Doersam, Chillicothe, Ohio
- 169 Wilbur A. Schaich, Louisville, Ohio
- 170 Joseph F. Sullivan, Bloomville, Ohio
- 171 James J. Visintine, Columbus, Ohio
- 172 Frederick D. Haag, Canton, Ohio
- 173 Robert Y. Frazier, St. Clairsville, Ohio
- 174 Lambrou P. Lambrou, Massillon, Ohio

UPSILON

- 103 Rolfe C. Eldridge
- 104 Louie Ibson
- 105 J. Mack Jones

PHI

- 122 Harold C. Weimer, Union City, Ind.
- 123 Nick Trbovich, East Chicago, Ind.
- 124 Thomas W. J. McCreadie, Chicago, Ill.
- 125 Harmon G. Stech, Jr., Huntington, Ind.
- 126 William R. Zweig, Whiting, Ind.

CHI

- 85 Felix G. Berra, Morenci, Ariz.
- 86 Clyde Houston, Tucson, Ariz.
- 87 John V. Kelly, Phoenix, Ariz.
- 88 Ben L. Cody, Ajo, Ariz.
- 89 Henry Raymond, Phoenix, Ariz.
- 90 William F. Sloan, Tucson, Ariz.
- 91 Joe Stockdale, Castle Hot Springs, Ariz.
- 92 William Dindinger, Florence, Ariz.
- 93 John L. Draeger, LaGrange, Ill.
- 94 Pitt Turner, Jr., Kingman, Ariz.
- 95 Harry M. Lindsey, Jr., Ajo, Ariz.
- 96 James P. Michaelson, Globe, Ariz.
- 97 William R. Hardwick, Tucson, Ariz.
- 98 Thomas C. Conroy, Pearce, Ariz.

PSI

- 42 John A. Cook, Erin, Ont.
- 43 Alfred A. Bloom, Great Falls, Mont.
- 44 John A. Alley, Butte, Mont.
- 45 Frank Trask, Jr., Deer Lodge, Mont.
- 46 Glenn C. Johnston, Butte, Mont.

OMEGA

- 65 Keith McElwain, Yankton, S. D.
- 66 William W. Brandvold, Huron, S. D.
- 67 Donald B. Muckler, Rapid City, S. D.

Out in the Cruel World

ALPHA

E. J. SCHRADER, '05, and W. V. DECAMP, Gamma '08, were recently engaged in a mine examination together near Tonopah, each representing some of the group of purchasers. This was the first time they had seen much of each other since they spent Christmas together in Douglas, Arizona in 1908 and helped to form the Southwestern Alumni Association.

JOHN J. KENNEDY, '08, is sales manager with the Ingersoll Rand Co. in New York.

FRED ENKE, '21, lives at 1415 E. First St., Tucson, Ariz.

ALEX GOW, '23, is living at 716 E. High St., Jefferson City, Mo. Those Alpha boys certainly are scattered.

CHARLES SIMMS, '24, is in the Standards Dept. of the A-C Spark Plug Co.

ART KROLL, '25, A. D. ALDERSON, '29, LESLIE HAVERLAND, '30, FRED JOHNSON, '31, LAWRENCE OBERG, '33, and TED NYLUND, '33, are all with the U. S. Engineers.

LESLIE FOKER, '29, has an M. D. degree and

is at CCC Camp No. 1728 at Grand Rapids, Minnesota doctoring the boys.

ERNEST KRON, '29, and E. JOHN MILLER, '30, are with a steel company in Chicago.

KARL SOMMERMEYER, '30, has received a law degree from the John Marshall Law School of Chicago. He lives at 174 Woodland Ave., Winnetka.

ADOLPH RINGER, '30, is with the Ingersoll Rand Co. in Chicago.

BILL ECKLY, '30, and JIM DOWD, '32, are with the Minneapolis Honeywell Co.

ED FINCH, '31, announces the hatching of a nestling, specifically, a daughter.

RALPH HILL, '31, is working for the Isobella Gas Co. at Mount Pleasant, Mich.

FRANK MURPHY, '32, is with the Douglas Aircraft Co. at Santa Monica, Calif.

KENNETH JOHNSON, '34, is in Grass Valley, California, with a gold mining company. Is living in Grass Valley anything like living in clover?

WESLEY JOHNSON, '34, is with the N. P. Railroad in St. Paul, Minn.

BETA

CHARLES A. KUMKE, '06, has been named Supt. of the Golden Queen Mining Co. which recently took over the Silver Queen mine at Mojave, Calif.

Several brothers have sent in their correct addresses which Beta requested in order to bring the new Kardex Filing System up-to-date:

JAMES A. BARR, '07, 44 Fairmont Road, Asheville, N. C.

ROY B. EARLING, '08, Fairbanks, Alaska. He is Asst. Mgr. United States Smelting, Refining & Mining Co., Fairbanks Branch.

G. H. MORGAN, '08, 1018 S. Citrus Ave., Los Angeles, Calif.

F. W. VARNEY, '08, has left for Manila, Philippine Islands, where he will be with the Engineers Supply & Equipment Co.

A. L. FERRIS, '11, is now foreman of the Stone Cabin Consolidated Mining Co. at Dayton, Nevada.

RAY CASE, '12, is mill superintendent at Manning Gold Mines Co., at Fairfield, Utah.

HOWARD H. FIELDS, Ex '13, lives at 444 Park Ave., Prescott, Arizona, where he is operating a mine.

CURTIS F. BURT, '14, lives at Apartado No. 6, Compostela, Nayarit, Mexico.

FRANK W. HICKS, '15, published an article on "Eliminating Accidents" in the February number of Mining and Metallurgy. He is with the Union Pacific Coal Co. at Rock Springs, Wyo.

ALTON F. WOOD and LUTHER E. WOOD, '19, Wood and Brooks Co., Buffalo, N. Y.

A. L. SEAMAN, '22, 31 Prospect Ave., Bethlehem, Pa. He is employed by Bethlehem Steel Co.

WALTER C. LAWSON, '23, Box 67, Ajo, Arizona.

JULIUS J. BECKER, Ex '29, now with Michigan State Highway Dept. dropped in on the boys at Houghton during a U. P. Highway convention.

THE CHAPTER received a letter from Brother Schrader stating that he met Bill Vanderberg, '23, who has been with the U. S. Bureau of Mines at Reno, Nevada, for the past six years. Other men whom he mentioned are Lt. Lester Vocke, '22, at Fort Shafter, and Gerald B. Shea, '21, U. S. Customs House, San Francisco, Calif.

KEITH SPENCER, '33, will take unto himself Miss Donna Lucille Starring of Rochester, Michigan, at Salt Lake City, Utah, on March 20.

J. S. WESTWATER, '34, is back in Detroit working.

RUSSELL ANDERBERG, '34, 721 Eastern Ave., S. E., Grand Rapids, Mich.

GAMMA

ROBERT D. ELDER, '08, has constructed a 100-ton mill at Alma, Colorado, for the London Mt. Gold Mining Co., of which he is president.

DONALD DYRENFORTH, '12, and family sailed from New York early in January for Johannesburg, Transvaal, South Africa, where he is to be the special representative of the Dorr Company.

ALAN KISSOCK, '12, Vice-President of the Climax Molybdenum Co., has moved his offices to 500 Fifth Ave., N. Y. C., that being the new headquarters for the company.

P. J. MCGUIRE, '15, has been appointed Western Division Sales Mgr. for the Oliver United Filters Co. in San Francisco, Calif.

FITCH ROBERTSON, '20, is superintendent of the Selby Plant, A. S. and R. Co., Selby, California. He lives at 16 Hillcrest Court, Berkeley, Calif.

C. A. FARLOW, '22, is at Kombinat, Russia.

DON M. RAY, '25, with his family, left for South America in February to become concentration foreman for the Cerro De Pasco Copper Corporation at Oroyo, Peru, S. A.

IRA O. THORLEY, '29, is with the U. S. Engr. Office in Detroit.

DANIEL J. LYONS, '30, was married on December 5, 1934, to Miss Marie Bringle of Fullerton, Calif. They are living at 1504 S. 8th St., Alhambra, Calif.

J. C. WILKERSON, '31, has become engineer for the Texas Oil Co. at Cutbank, Montana.

ROBERT L. McCLAREN, '32, is geophysicist for the Arkansas Natural Gas Corp. and lives at 433 Olive St., Shreveport, La.

NEIL O. JOHNSON, '33, is Mill Supt. for the Hog Mountain Gold Mining and Milling Co., Alexander City, Ala.

RALPH JOHNSON, '33, is now living at 119 E. Virginia Ave., Homestead Park, Pa. He is still in the metallurgical dept. of the Carnegie Steel Co.

A. A. TOWNSEND, Ex '34, is engineer for the Phillips Petroleum Co. at Jal, New Mexico.

CHARLES N. BELL, III, '34, is sales engineer for the Vilter Mfg. Co. of Denver, Colo.

KENNETH TRUE, '35, celebrated last Christmas Eve by getting married to Miss Elizabeth Joy Smith, of Rochester, New York.

EPSILON

A. WERNER LAWSON, '13, resigned from his position as manager of the mining and oil departments of the C. W. Young Investment Co. to become associated with Gerhard Foreman. His new address is Room 3220, 141 West Jackson Blvd., Chicago.

ROY R. MORSE, '13, and TOM BAILEY, '17, have been traveling in Europe for the Shell Oil Co.

J. LEE BENNETT, '20, is engineer for the Treadwell Yukon Co. at Tybo, Nevada.

ED SIMPSON, '21, is with the Geology Dept. of the Texas Oil Co. His residence is 18 Flower St., Bakersfield, Calif.

GLOYD M. WILES, '23, is now Asst. Supt. of the Park City, Cons. Mines Co., in Park City, Utah.

D. C. SHARPSTONE, '24, after being chief geologist of the Roan Antelope Mine in Southern Rhodesia and doing development

and examination work in Alaska and British Columbia, has now opened an office in San Francisco.

HAROLD E. HEIDE, '25, is now in charge of the Sacred Mound and Buttes Saddle properties in Sierra City, Calif.

ALAN PROBERT, '25, has left the U. S. S. M. and R. Co. and is with the Gallagher Machinery Co. of Salt Lake City.

C. C. RORIPAUGH, '25, is Production Engineer with the Shell Oil Co. in Ventura, Calif.

LAWRENCE L. TAYLOR, '26, who has been working as a grad student at the U. of Calif. for the last two years, went back to Columbia. He may be reached by addressing the Richmond Petroleum Co., Apartado 235, Barranquilla, Columbia, S. A.

E. A. BOWDWAY, '27, has a position with the Murwood Gold Mines, Senneterre, Quebec Province, Canada.

- FRANK JOHNSON, '27, is working on Soil Erosion Service for the government. His headquarters are at Santa Paula, Calif.
- ROGER F. RHOADES, '28, is teaching geology at Antioch College, Yellow Springs, Ohio. He spent the summer of 1934 doing geological work for the TVA.
- FRANCIS W. ANDERSON, '28, is in charge of the Comet Coalition Mining Co. in Park City, Utah.
- JOHN HAZZARD, '28, is teaching at Ventura Junior College, Ventura, Calif.
- FRAN FREDERICK, '30, not content with working for three different concerns signed up for life with Miss Marian Sperry on February 16, 1935. The Beebe Mine at Georgetown, Calif., the Big Blue Mine in Kern County, Calif., and the Pine Tree Mine in Mariposa County, Calif., are all receiving his services.
- J. B. CHAMBERLAIN, '30, may be reached at Fairbanks, Alaska. He is working for the Fairbanks Exploration Co.
- WILLIAM M. WARREN, '30, recently made a trip around the world and has returned to Ipoh, Federated Malay States with the Anglo Oriental (Malaya) Ltd.
- C. F. BEDFORD, '31 and '32, is Production Engineer, Stanolind Oil Company, Tulsa, Okla.
- GEORGE L. GUTHRIE, '31, is a consulting geologist in Pampa, Texas. Brother Guthrie seems to be having his first experience with the high winds of the Panhandle and we don't believe he likes 'em.
- A. P. BOWIE, '32, is at Ampang, Selangor, Federated Malay States. He will probably return to California this summer.
- L. R. GOLDSMITH, '32, is Asst. Yard Supt., Shell Oil Co., Martinez, Calif.
- W. A. HICKEY, M. S. '32, Lieutenant, U. S. N., is on the Pacific Coast.
- W. C. LATROBE, M. S. '32, is on the Submarine ARGONAUT, Hawaiian Islands.
- JUAN VICTORIA, '32, is a government employee at E. Rios, San Juan, Argentina.
- ARTHUR WERNER, '33, has a position with the Arizona Comstock Corp., Virginia City, Nevada.
- ED HANSEN, '33, is an assayer at the Cornucopia Mine, Baker, Oregon.
- W. A. SMITH, '34, may be reached at Baguio, P. I. He has a position with the Antimock Goldfields Mines Co.

ZETA

- CHARLES COATS, '13, is now living at 3207 Chatfield Place, Wichita Kansas. He is in the oil business for himself.
- GLENN ALT, '16, is still teaching at Ann Arbor, Mich. He is also doing estimation work for the Mackinac Bridge Authority relative to a \$30,000,000 bridge project in northern Michigan.
- JAMES ORTON, '17, is Technical Asst. to the Procurement Officer, engaged in administrative duties in connection with CCC operations in Michigan State Parks. His address is 220 Beach St., East Lansing, Michigan.
- JOHN BUNN, '20, is coaching basketball at Stanford University.
- H. G. GREGORY, '22, is working on the 200 million dollar Colorado River aqueduct. He is living at 1844 Veteran Ave., West Los Angeles, Calif.
- PAUL ENDACOTT, '23, now at 916 Cherokee, Bartlesville, Okla., is director of Sales Research with Phillips Petroleum Co.
- O. K. JOHNSON, '26, is Chief Engineer of the Van Buren St. Plant of the Kansas Power and Light Co., Topeka, Kansas. His address is 1829 Lane St., Topeka.
- WAYNE LUFF, '28, and FLOYD KING, '30, have fathered a baby girl apiece.
- VIN SMELTZER, '28, is a designer for the Santa Fe Railroad Co. Janice Lee, three years, and Bobby Gene, nine months, constitute his home work. His home is at 2027 Lincoln St., Topeka, Kansas.
- ROY DENT, '29, is selling industrial X-ray equipment for General Electric Co. His address is 324 N. Harvey, Oak Park, Ill.
- MANLEY HOOD, '29, is with the National Advisory Committee for Aeronautics. At present he is working on the design and construction of an eight-foot diameter, 500 m. p. h. wind tunnel. Write to him at 137 Pocahontas Place, Hampton, Va.
- EUGENE MANNING, '33, is an Asst. Engr. with the Frigidaire Co. in Kansas City, Mo. He is living with Logan Woolley, '31, at 220 Garfield Ave., Kansas City, Mo.
- GLENN HANDS, '34, is employed by the Kansas State Highway Commission. Glenn recently announced his intention of taking the fatal step in the near future. The lucky girl is Mary Margaret Bowser.
- EDWIN ELLIOTT, '34, is with Burns and McDonnell, Consulting Engineers, Kansas City, Mo. Brother Elliott had himself bound on December 15, 1934 to Evelyn Darrah. They are living at 3830 Walnut St., Kansas City, Mo.

ETA

NORRIS G. ABBOTT, '20, is with the Manufacturers Mutual Fire Ins. Co., 815 Grosvenor Bldg., Providence, R. I.

JAMES W. GIBSON, '20, is with James D. Henderson & Co., Boston, Mass.

CARLTON J. EVERETT, '26, is with H. L. Doherty & Co., 60 Wall St., New York City.

*RALPH T. JOPE, '28, has recently been appointed secretary to the Alumni Advisory Council on Athletics at Massachusetts Technological Institute. Along with his string of other activities he is Business Director of the Technology Review.

THETA

HARLAN A. WALKER, '19, is the author of "Mining Methods and Costs at El Potosi Mine," Chihuahua, Mexico, published by the U. S. Bureau of Mines.

CHARLES MASON, '32, has finished his research work at Columbia and is now employed by the General Electric Co. at Schenectady, N. Y.

IOTA

DR. S. R. B. COOKE has completed his observatory at the Missouri School of Mines, having spent three years on the construction of the telescope.

RONALD O. SWAYZE, '20, is now living at 1867 Twin Palms Drive, San Marino, Calif.

HERMAN J. MUTZ, '21, formerly supt. of the Frood Mine, has just been made general supt. of all mines of the International Nickel Co. of Canada.

HARRY PENCE, '23, is among those U. S. Engineers who are still monkeying with the old Mississippi. They are constructing a dam and locks at Alton, Illinois.

THEODORE W. HUNT, '33, is Inspector with U. S. Engineers at Baton Rouge, La.

ATWOOD HIBETS, '33, is employed with the Timkin Bearing Co. of St. Louis.

O. W. GARST, '33, is employed at the Western Cartridge Co. of Alton, Illinois.

J. DOUGLAS MARTIN, '33, is at present the operator of the short-wave radio station on the M. S. M. campus.

W. W. WESTERFELD, '34, has obtained a fellowship at St. Louis University and is a student assistant in the Medical School.

G. A. HALE '34, is employed at the Titanium Pigment Co. of St. Louis.

W. J. IRWIN, Regent '34, works for the Timkin Bearing Co. of St. Louis.

KAPPA

FRANCIS M. RICH, '25, of the Republican Steel Corp. in Youngstown, Ohio, received this year's J. E. Johnson, Jr. award, which is given to engineers under 35 who have distinguished themselves in iron and steel work.

J. J. DOLAND, Kappa honorary, and MILO KETCHUM, '31, were among the number of Theta Tau's who attended the annual meeting of the A. S. C. E. in New York in January.

STANLEY BENSCHOTER, '32, is taking graduate work at the University of Illinois this year.

LAMBDA

E. G. GARDNER, '06, has published Information Circular No. 6823 of the U. S. Bureau of Mines—"Mining Methods and Costs at the Mine of the St. Joe Lead Co., Atlanta, Idaho."

J. O. ELTON, honorary, is now Utah manager of the International Smelting and Refining Co.

WILLIAM J. COPE, '23, has been appointed

Assistant Dean of Men in charge of fraternities at U. of Utah.

LT. JOHN SAMPSON, JR., '24, is stationed at U. S. Military Academy at West Point, New York.

JIM ORR, '31, was married to Florence Irvine on March first. She is a sister of Brother Lee Irvine, '31. Moral: Keep in touch with your Brothers. Brother Orr is working on a mine in Park City, Utah.

GEORGE A. KOEHLER, '32, is employed by a mining company at Dividend, Utah. Nice sounding name the place has; is the mine that good?

ROSCOE VAN LIEW, '32, received a promotion and is now Office Engineer for the PWA Inspection Division in Denver, Colo.

ROBERT H. KIRKMAN, '33, is recreational director of a CCC Camp in California. He lives now at 843 Chester Place, Long Beach.

HIBER E. PETERSON, '33, was with U. S. M. and S. in Midvale, Utah, but is now with W. F. Snyder and Sons. It appears that the Snyder Company has an alumni association all its own.

KENNETH ATWELL, '33, is Asst. Engr. in the U. S. Civil Engr. testing lab on research work for the Bonneville Dam Project, Calif. His address is 2421 Hilgard St., Berkeley,—and oh yes, he has recently become the father of a baby girl.

JAMES A. HAGUE, '33, is a Levelman for the Utah State Road Commission.

GEORGE W. CARTER, '33, is doing engineering work for PWA in Utah.

WILLIAM E. OTTENSTEIN, '33, is a mechanic in the metals shop of the United Air Lines at Cheyenne, Wyoming.

MAX J. KENNARD, '33, is back in school studying metallurgy, and doing research work for Manning Gold Mines Co. He will resume work for Brother Jd Snyder at his gold property in Mercur and Manning next June.

SIMON RAMO, '33, is still attending school at Calif. Institute of Technology in Pasadena. J. CECIL SHARP, '33, is back in school. He is the father of a nine-months old baby boy. If this item weren't several months old we might conclude that father and son are doing nicely.

ROY J. FAIRCLOUGH, '33, is working for the Salt Lake County Surveyor.

ELDON R. MORGAN, '33, is living in Salt Lake City.

MAURICE G. McGRATH, '33, is employed as metallurgist by Cerro de Pasco Mines in Peru. Just before he left for Peru last summer he married Miss Margaret Brown, who left after Christmas to join him.

S. CLARK JACOBSEN, '33, has finished his work with the Utah State Tax Commission and is unemployed at the moment.

ROY P. WALKER, '34, is in the same boat.

HOWARD M. HURST, '34, is attending school at the California Institute of Technology with Brother Ramo.

ROSS B. BERGH, '34, is still with the Utah State Tax Commission at the Capitol Bldg. Salt Lake City.

EDWARD P. EARDLEY, '34, is back in school.

JOHN I. KASTELER, '34, is working with Brother Gene Merrill, who is Mine Engineer at U. S. Mine in Lark, Utah.

AUGUST L. AHLF, '34, is employed by U. S. Bureau of Reclamation. His address is 611 Lind Ave., Casper, Wyoming.

CHARLES HINZE, '34, is surveying in Idaho. We hear he is contemplating marriage. He who contemplates is lost.

BERNARD J. GREULICH, '34, is with the U. S. G. S. in the Southern States.

BLAINE WATTS, '34, is safety man for U. S. Smelter in Midvale, Utah.

FRANK LATHROP, ex '35, received work with the Railroad some time in February.

NU

DORSEY A. LYON, honorary '98, has resigned his position as director of the Utah Experiment Station at the University of Utah due to ill health. He is now living on his farm near Palo Alto, California. In addition to the directorship, he was Secretary

to the President at the U. of U. and also Asst. Dean of Men in charge of fraternities.

VALENTINE D. LUEDEKE, '34, is taking a M. S. at Columbia University and attends Theta Chapter's luncheons regularly.

XI

WILLIAM V. HANKS, '23, who has been with the Standard Oil Co. in Baton Rouge, La. for some years, has been advanced to a post in London, England.

GRANT O. GALE, '26, announces the birth of a daughter, Harriet Newell, born Nov. 12, 1934. He is Professor of Physics at Grinnell College, Iowa.

OMICRON

- CHARLES STICKNEY, '21, is reported to be in North Hollywood, Calif.
- PROF. F. T. MAVIS, hon '22, attended the annual meeting of the American Society of Civil Engineers in New York City in January.
- ED RICH, '22, is at 11617 Huston St. in Los Angeles.
- CHEY MEADE, '23, appears to have settled himself in Bakersfield, Calif.
- JOHN HOLBROOK, '24, is now associated with the newly formed Northern Chemical Co. of Green Bay, Wis., as secretary-treasurer.
- LARRY FRY, '25, will have us know that he now has another daughter, born some six months ago.
- JIM HESS, '25, has been transferred from the Cedar Rapids plant of the Wilson Packing Co. to the Oklahoma City Plant as master mechanic.
- EDWARD L. (NED) ASHTON, '25, is in the U. S. Bureau of Reclamation Office in Denver.
- LT. MASON STOKER, ex '25, is stationed at the United States Military Academy, West Point, New York.
- Recent efforts on the part of Omicron's PYRAMID editor to locate lost members have resulted in some energetic signs of life on the part of some of them.
- ED NIELSEN, '26, for one, insists that he is alive and kicking. He is with the U. S. Bureau of Reclamation in Denver.
- WENDEL GUNDERSON, '26, shows up in Albert Lea, Minn.
- JIM BOWEN, ex '27, is in San Diego, Calif.
- DUANE McCANN, '29, is with a well surveying crew in Corpus Christi, Texas.
- MICKEY FLANAGAN, '29, has been discovered in Dubuque, Iowa.
- ROWLAND WILLIAMS, '29, is commanding camp D.S.P. 3 at Kaiser, Mo., as captain of Infantry Reserves.
- J. O. SHEROD, '30, is in Gibbstown, N. J. with the DuPont Co.
- L. W. STARKWEATHER, '31, is running the water treatment and coal analysis in the power plant at Cedar Rapids, Iowa. He went and got himself married some time ago without telling any of his brothers how or when it happened.
- WILLIAM P. JONES, '34, announces his marriage to Miss Ruth Mary Lewis in Buffalo, New York, on February 21. Right on schedule, weren't you, Bill?
- OMICRON'S ALUMNI ASSOCIATION has appointed a Scholarship Committee "to investigate possible ways in which we can offer incentive to the active chapter." The members of the committee are: John H. Folwell, '27, Emil P. Schuele, '26, J. Stuart Meyers, '27, Leo J. Aschenbrenner, '32, Larry S. Cain, '29.

PI

- JOHN S. GLUNT, '34, is working on the U. S. Geological Survey of the state of Virginia. He is now stationed in Big Island, Va.

RHO

- D. MURRAY HOUSE, '33, who was reported last fall as working for a tobacco company, has been with the Water and Light Commission in Greenville, N. C., for over a year.

SIGMA

- STAN BARNES, '31, is a Justice of Peace at his home in Port Clinton, Ohio. Wonder if he will come through with free services when the boys need him worst.
- JOHN W. COLE, '31, is working on an irrigation tunnel project and is located at East Portal, Twin Lakes Tunnel, Colorado.
- EARL WOLF, '33, will assume the ball and chain on April 6.
- JACK K. DUMBAULD, '33, is the proud father of a baby gal.
- WAYNE C. FISCHER and JOSEPH BOWEN, both '34, are Asst. Engrs. in CCC camps.
- MYRON O. JENSON, '34, is with the Tennessee Valley Project.

UPSILON

DANIEL B. JAMISON, '30, is employed as draftsman on the N. W. Arkansas Forestry, Grazing, and Recreational Project located here. Brother Jamison will be remembered by the delegates to the Arkansas convention as one of the active hosts.

LEON HIRSHORN, '33, who recently left the state of single blessedness, is conducting chemical research in Little Rock, Arkansas.

R. P. HERGET, '34, is working in Washington, D. C., in the Bureau of Patents.

RANDALL W. STEWARD, '34, is working for the Bell Telephone Co. and in the past has been located in Wilson, Arkansas.

RICHARD E. COPE, '34, is employed at his home in Harrison, Ark.

CHI

DAVID C. MINTON, '30, is manager for the Molybdenum Inc. Mining Co. at Helvetia, Ariz.

DON C. FARVER, ex '31, is boy-scouting as Road and Trails Engr. for a CCC unit at Madera Canyon, Ariz.

FRANK O. BACON, JR., '31, is located in Mexico. His address is c/o Mexicana Anexas, S. A., Guadalupe, Durango, Mexico.

ROY GOAR, '31, is high powered. He's in the High Voltage Laboratory of General Electric at Pittsfield, Mass. His address is 79 Harvard St.

WILLIAM NORTON, '32, is at 5906 Easton Ave., Los Angeles, Calif.

GEORGE PETERS, '32, is Mill Supt. for Sterling Gold Mining Co. at Cordes, Ariz.

DELOS GARDNER, '32, is a mill operator at Las Guies, Ariz.

CARL BRUCE, '32, is reported to be flying an air mail plane on a regular run out of Chicago.

G. M. BUTLER, JR., '32, is taking advanced work at the Massachusetts Institute of Technology.

GEORGE PONSFORD, '33, so they say, is keeping the wolf away from the door by running a riding academy in El Paso, Texas.

ROBERT C. BACON, '33, is working for the

Gold Crown Mining Co. at Twin Palms, Calif.

LAWRENCE BOOHER, '33, is living at 1015 E. 7th St., Tucson, Ariz.

ALBERT E. HAMILTON, '33, is working at Picacho, Ariz.

ART DAVIS, '34, is with the U. S. Reclamation Service on the All-American Canal at Yuma, Ariz.

RICHARD H. MORCOMB, '34, is working in Glendale, Ariz.

LARRY KELLY, '34, has recently accepted a position with the Home Service Co. in Tucson selling General Electric equipment.

FRANK LOSEE, '34, is selling life insurance in Phoenix, Ariz. for the Mutual Life of New York.

EINO JACOBSON, '34, who has been doing contracting with his father around Los Angeles just couldn't stay away from Arizona. He is back in Miami, Ariz.

J. RICHARD OTHICK, '34, is a big shot in Peru. He is managing the gold properties of the Carawarcuna Mining Co. at Cuyocuyo.

WILLIAM KILLIP, '34, is with the Soil Erosion Service at Stafford, Ariz.

WILLIAM CROZIER, ex '33, is in the coal business in Winslow, Ariz. this winter.

PSI

JOHN E. BLIXT, '31, is Asst. Geologist for the Texas Company in Lamar, Colo.

JOHN M. CONROW, '33, can be contacted in Big Timber, Montana where he is running an assay office.

ROBERT JESS SMITH, '33, is still roasting zinc at Anaconda. Psi Chapter wants a talk on Zinc Roasting one of these days, Bob.

ARTHUR J. BOVEE, '34, is still employed by the Basin Tunnel Company. Reports have it that Art is more than taking out the pay dirt.

ROBERT JAMES WOODY, '34, is flotation operator in the tungsten plant of the Jardine Mining Co. at Jardine, Montana.

OMEGA

HAROLD MARTIN, '31, is working with the Warren-Lamb Lumber Co. of Rapid City. He was married to Miss Arline Smoot of Rapid City on February 2, 1935.

RICHARD MARQUARDT, '33, was spliced on December 11 to Miss Frances Miner of Rapid City. Pretty soon there won't be

an unattached man in the whole Omega outfit. Brother Marquardt is working for the S. D. State Cement Plant at Rapid City.

ALBERT HALL, '33, sends an announcement that promises us a future pledge named Albert Loren Hall, born March 6, 1935.

Employment Service

RULES

1. LENGTH: Notices are limited to 40 words.
2. DEADLINE: Copy for the Fall GEAR must reach the editors by November 1 and for the Spring GEAR by March 15.
3. CHARGE: A fee of 5% of the first month's salary will be charged those men who are successful in securing a position through the service.
4. REPEATED NOTICES: A notice will be published once unless a request to reprint it is received after its publication.
5. RESPONSIBILITY: THE GEAR does not assume responsibility for statements contained in employment notices.
6. EMPLOYERS: Employers may obtain from THE GEAR the name and address of any applicant by giving the number of the employment notice.

Ch. E. 2—Graduate Chemical Engineer, South Dakota School of Mines '33. Age 24, married, excellent health. Experience in water analysis and South Dakota Highway Dept. Can furnish best of references.

Ch. E. 3—Graduate Michigan Tech 1934. Age 23, single. Excellent references.

E. E. 1—Honor Graduate in E. E., North Carolina State College 1933. Age 24. Experience in plant operation (present work) and office work. Desires change. Will go anywhere. Can furnish best of references.

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