1904 - Golden Anniversary Issue, Fall - 1954

THE GEAR

Erich J. Shrader, *Founder*

# of THETA TAU

Volume XLIV **Number 1**

The GEAR *of* THETA TAU

FALL, 1954

VOLUME XLIV NUMBER 1

Theta Tau Fraternity

Founded at the University of Minnesota October 15, 1904

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ERICH J. SCHRADER — ISAAC B. HANKS
W. MURRAY LEWIS — ELWIN L. VINAL

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THE GEAR OF THETA TAU

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Engineering Building, Iowa City, Iowa

Letters for members of the Council should be addressed to the individual by name.

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Chapters

ALPHA, *Founded October 15, 1904* - - - - University of Minnesota
(Chapter house) 324 Walnut St., S. E., Minneapolis, Minn.

BETA, *Established March 26, 1906* - Michigan College of Mining and Tech.
(Chapter house) 1405 College Ave., Houghton, Michigan

GAMMA, *Established November 8, 1907* - - - Colorado School of Mines
c/o Prof. George W. Lemaire, Colo. School of Mines, Golden, Colo.

DELTA, *Established May 23, 1911* - - - - - Case Institute of Technology
Theta Tau Box, Case Institute of Technology, Cleveland, Ohio

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

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

THETA, *Established May 26, 1914* - - - - - - - - Columbia University
c/o Prof. Howard Vreeland, Col. of Eng., Columbia University, New York City

IOTA, *Established February 5, 1916* - - - - - - - Missouri School of Mines
c/o Prof. J. B. Butler, Missouri School of Mines, Rolla, Mo.

LAMBDA, *Established April 29, 1920* - - - - - - - - University of Utah
c/o Preston Linford, College of Engineering, Univ. of Utah, Salt Lake City

MU, *Established January 3, 1922* - - - - - - - - University of Alabama
P. O. Box 2043, University Alabama

XI, *Established January 13, 1923* - - - - - - - - University of Wisconsin
c/o Prof. H. A. Peterson, Dept. of Elec. Engr., Univ. of Wis., Madison, Wis.

OMICRON, *Established February 3, 1923* - - - - State University of Iowa
Theta Tau Box, Engineering Building, Iowa City, Iowa

PI, *Established May 26, 1923* - - - - - - - - - - University of Virginia
c/o Prof. Lawrence Quarles, Col. of Engr., Univ. of Virginia, University, Va.

RHO, *Established February 16, 1924* - N. C. State College of Ag. and Eng.
c/o Prof. T. C. Brown, M.E. Dept., N. C. State College, Raleigh, N. C.

SIGMA, *Established November 29, 1924* - - - - - Ohio State University
(Chapter House) 1946 Indianola Avenue, Columbus, Ohio

TAU, *Established December 12, 1925* - - - - - - - - Syracuse University
Theta Tau Fraternity, Col. of Eng., Bldg. 6, Syracuse U., Syracuse 10, N.Y.

UPSILON, *Established April 7, 1928* - - - - - - - University of Arkansas
(Chapter House) 612 Storrer St., Fayetteville, Arkansas

PHI, *Established April 21, 1928* - - - - - - - - - - Purdue University
(Chapter house) 416 North Chauncey, West Lafayette, Indiana

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) 107 Kansas City St., Rapid City, S. Dak.

GAMMA BETA, *Established March 16, 1935* - George Washington University
Student Union Office Bldg., George Washington Univ., Washington, D. C.

DELTA BETA, *Established May 20, 1939* - - - - University of Louisville
(Chapter house) 2022 S. First St., Louisville, Ky.

EPSILON BETA, *Established May, 19, 1951* - - - - - - Wayne University
c/o Prof. Harold G. Donnelly, College of Engr., Wayne Univ., Detroit, Mich.

Golden Anniversary Convention

of

Theta Tau Fraternity

DYCKMAN HOTEL
MINNEAPOLIS, MINNESOTA
October 14 - October 16, 1954

OCTOBER 13 - WEDNESDAY
*8:00 p.m. Pre-Convention Open House to Twin City Alumni

OCTOBER 14 - THURSDAY
*9:00 a.m. Opening session of Convention
*1:30 p.m. Business Session

OCTOBER 15 - FRIDAY
*9:00 a.m. Business Session
*1:30 p.m. Business Session
*1:30 p.m. Initiation
*7:00 p.m. Banquet

OCTOBER 16 - SATURDAY
*9:00 a.m. Closing session of Convention
Election of National Officers
Installation of National Officers
Indroduction of prominent Alumni
Closing ceremony
11:30 a.m. Luncheon - Executive Council and Alumni
1:30 p.m. Football game - Minnesota vs Illinois
6:00 p.m. Buffet style dinner
8:00 p.m. Dance

*Activities restricted to Theta Tau members only; all other events are open to wives and guests.

Come to Minneapolis October 14-16 and Meet the Founders of Theta Tau

One of the interesting features of the Golden Anniversary banquet will be the presentation of a "loyalty" candle, dedicated to our Alumni everywhere. This candle will be lighted at 7:00 p.m. on October 15th at the banquet which will be held at the Dyckman Hotel, Minneapolis. Active chapters and Alumni Associations will also light their candles at their local Founders' Day dinners. Theta Tau Alumni everywhere are urged to meet for dinner at that time and send a communication to the national convention banquet.

Let's make it Theta Tau night all over the world!

Founders of Theta Tau

Erich J. Shrader, *Founder - Roll No. 1*
Is "Mr. Theta Tau"

Erich Julius Schrader was born in Bremen, Germany, on June 24, 1881. Five years later he came to this country with his parents and grew up in the Twin Cities of Minnesota, attending schools both in Minneapolis and St. Paul. Later he entered the University of Minnesota to study mining engineering and during his student days evolved the idea of an engineering fraternity based upon common professional interests. His enthusiasm led to the founding of a local engineering fraternity which was destined to develop into a major professional fraternity.

Brother Schrader received his degree in mining engineering in 1905 and started work as an engineer helper, assayer, chemist, etc. at the then standard salary of $75 per month. For seven years he held various positions in the United States and Mexico, but was run out of Mexico in the fall of 1911 because of the revolution there. His background of experience and ability found him well fitted for his next position as General Manager of the Rockland Mine in Nevada. He was in charge of reopening it and equipping it with a cyanide plant.

From 1918 to 1921 he was General Manager of the Spanish Belt Mine in Tonopah, Nevada, and from 1922 to 1928 did consulting work for the Hammon Engineering Company and the Tonopah Mining Company of Nevada. The next year he served as General Superintendent of Gold Circle Consolidated in Midas, Nevada. In 1931 he opened offices as a consulting mining engineer in Reno, Nevada, and still continues with that work.

Brother Schrader was a member of the Nevada State Mining Advisory Board for many years and served as Chairman of the Nevada Delegation to the Western Conference of State Mining Boards in 1944. His professional activities include the preparation of many technical articles for publication.

The founder of Theta Tau has worked continuously and diligently for the good of the Fraternity for fifty years. In this time he not only conceived the idea of a professional brotherhood but wrote an excellent ritual as well as a constitution and bylaws. Although these have been revised through the years—often at his suggestion—they have remained essentially as he originally wrote them. Despite his great interest in these documents, Erich has always welcomed constructive suggestions.

From 1906 to 1911 he was National Chairman and from 1911 to 1919 the first Grand Regent. For the past thirty-five years he has devoted his time and energy to the duties of Grand Scribe, and when in 1948 the Biennial Convention created the position of Executive Secretary, Erich J. Schrader was unanimously chosen to take over those duties in addition to the work he does so ably as Grand Scribe.

Brother Schrader is famous for his prodigious memory of Theta Taus. He knows thousands of them by name and his continued interest in the Fraternity includes each new group of pledges and initiates. He sends out thousands of letters each year without stenographic help, asking only that they be answered within a reasonable length of time. His long and active background of experience and service to the fraternity is second to none. Erich Schrader is truly "Mr. Theta Tau."

Elwin L. Vinal, *Founder* - *Roll No. 2*

An Exciting and Unusual Career

Founder E. L. Vinal was born April 2, 1886 in the historic old city of New Bedford, Mass. Later he prepared to attend M.I.T. but persuasions of relatives in Minneapolis coupled with "Western Fever" found him a green Mining freshman at Minnesota in the fall of 1903. In his mid-sophomore year, he transferred to Colorado School of Mines at Golden. Three others, of whom Murray Lewis was one, joined in the move. The change proved advantageous except as to time because of certain conflicts in courses and prerequisite rules newly adopted by the school.

At the end of his senior year Brother Vinal went out into the cruel world with some unfinished work (which would have required at least another year) and no degree. The missing links were supplied later, at least as far as was needed, through study and experience. His first job was assayer at the Sedalia Mill of Shawmut Consolidated Copper Co. in Colorado. A few months later the bottom dropped out of the copper market and the job folded up, just as he received a telegram from Washington, D. C. offering an appointment in the U.S. Coast & Geodetic Survey (which was Civil Service at that time). He had taken the examination while in school and forgotten all about it. Now it came as not only a surprise but a life saver.

After some months in Washington and field work on the East Coast from Cape Cod to Baltimore, he was ordered to the Pacific Coast for service in Alaska. That year (1908) proved to be most interesting to a young man not long out of school who loved the wilderness. It was wild at that time with some spots known never to have previously been explored by white men.

About this period Brother Vinal has written.

> You are surrounded by wild life. I have a vivid recollection of one morning having to dispute the occupancy of a spot on the beach by a little mountain stream with a family of Kodiak bears before I could set up the plane table. Believe me, that was a diplomatic conference; but we occupied the station. We had a gun in our gear, but fortunately no one was near enough to get it. Its use would have been suicide.

That season, besides taking part in establishing a major triangulation network and covering over 500 sq. miles of hydrography, he personally mapped 203 miles of shoreline with contiguous topography, a record for the service up to that time. Two years later Mt. Katmai blew its head off, created the Valley of Ten Thousand Smokes, buried much of the area with an incredible volume of volcanic material, mostly ash, filled some of the waterways and altered much of the shore line. It was necessary to rechart much of the same area.

At the close of the season, orders were waiting for Brother Vinal to go to the Philippines. Taking annual leave, he sailed to San Francisco to meet his boyhood sweetheart who had come across country for the purpose. They were married in Berkeley (November 1908) and returned to Seattle for a honeymoon and a job hunt before his leave was up. The Philippines didn't look as attractive as the idea had ten months earlier. Seattle looked good to

them—a beautiful young city, growing rapidly with development everywhere, including a remaking of the central section and a great new exposition for the following year.

After resigning from the C. & G.S., he joined the staff of the Seattle Electric Co. as a civil engineer. The Seattle Electric was a Stone & Webster enterprise which owned the street railway system. It was there he designed his first bridge and laid out about 25 miles of the streetcar lines. He designed the terminals at the exposition grounds (Alaska-Yukon-Pacific) and various other things, among which was a successful safety device for the famous counter-balance system for enabling the big double-truck cars to travel up and down the face of Queen Anne Hill, traversing grades from 10 to 27 percent, a route which the automobiles of that day, and until several years later, could not negotiate in low gear.

In 1909, he established a home on Mercer Island in Lake Washington which borders Seattle on the East, and that has been "home plate" for him ever since, although he spent quite a number of years in intermittent periods in other sections as his business required.

Late in 1910 Brother Vinal resigned from the Seattle Electric Co. and dived into the maelstrom by hanging out his shingle as a free lance Mining and Civil Engineer. From then until 1941, he was on his own with the usual transitions from feast to famine and back again. Assignments ranged into the various mining districts from central California to Alaska and some in Idaho and Montana. They covered examinations, geology, prospecting, exploration, development, and operation, mostly in gold and silver with some copper.

A friend, another Mining Engineer, operated a custom assay office in an adjoining building. He was frequently called out on examinations and, at these times, Brother Vinal ran the office for him. This enabled him to run, at any time he wished, the samples taken on his own work—a very satisfactory arrangement. One foray kept him in Alaska about nine months, mostly in Juneau, and included an examination and report for eastern people on a property which later became an important unit of the Alaska-Juneau Mine.

He had considerable work in connection with State of Washington coal properties prior to World War I. After the war, he was resident Engineer for Western Coke & Collieries in opening and developing a coal property east of Seattle. There were nine coal seams, of which they were opening five. One of these carried an excellent coking coal. They built fifty-two coke ovens and most of the outside structures, including an aerial tram with over 11,000 ft. of track cable, the two terminals and four hill-top towers. He resigned this job in 1920 to take over a sizable real estate development in Bend, Oregon.

This was his personal project, taken over with the help of some associates, and it called for a family move. The Mercer Island home was rented (and later sold) and residence taken up in Bend where he found himself in the real estate business, spreading into building and contracting, real estate brokerage, insurance, mortgages, savings & loan, property management, etc. He built homes, streets, and parks; and installed utilities on the properties. He was an officer and active manager of three corporations,

a member of two school boards, and the Water Board which developed and brought into the city a new spring-fed water supply from the nearby mountains, to give it the finest water in the West without treatment and only

chlorination for two months in the spring when the snow is melting. The population of Bend tripled during this period and he was beginning to cash in on his labors. The project was partly financed in the East and in Seattle, as well as locally, and, as the 20's passed out in a welter of bank failures capped by the depression, so did he.

Finding himself in the position of having to start over again, Brother Vinal and his family returned to home port on Mercer Island where they settled on a wild undeveloped waterfront tract purchased before he left ten years previously. In the face of other wreckage, this he had managed to keep intact.

From a tent pitched on the beach, with a bucket and the lake for a water supply, he now has a well-developed place and a comfortable, fully-equipped home with about 2800 sq. ft. of floor space. About 90% of the construction and landscaping has been done with his own hands over the years. He calls it a hobby.

Gradually he was able to rebuild a mining practice and, in a few years, he opened a small consulting office. It was part of a suite occupied by a lawyer where he could have secretarial service to keep in touch while he was away on assignmnts. In the late 30's he had five mines under guidance in northern California west of Redding, in three of which he was personally interested. In 1939 he was doing geological work, mapping and prospecting on the old Vermont Mine in the French Gulch District. He was working along and "baching" in a cabin built in 1878 at the head of Slaughterhouse Gulch on the Deadwood Divide. That was where Erich Schrader visited him. It was a happy reunion, the first since college, in an appropriate setting, but all too brief as Brother Schrader had to return the same day and no adequate celebration was possible.

In 1940 Brother Vinal returned to Alaska. After a rather extensive examination on the Cleveland Peninsula not far from Ketchikan, the next sojourn was at the famous Independence Mine, the second largest gold producer in Alaska (owned by Alaska-Pacific Cons.) There he made a topographic survey to superimpose the surface on the underground workings. He had designed a sorting plant for the mine earlier in the season. In September construction was going on and equipment arriving over the snow. He stayed to see it closed in and directed and helped with the installation up to about 70% of completion; the snow at camp was then about eight feet, although still light at the lower elevations at Matanuska and Anchorage. He left for home, arriving two days before Christmas.

He was invited to return in the spring, but about that time his wife stepped in. She pointed out that he had been away from home about nine months or more of each of the preceding seven years, and urged him to get into something that would enable him to keep the home fires burning and be seen on the door-step once in a while. That suited him, so he joined the engineering staff of The Austin Co. as a design Civil Engineer.

The company was very busy under its Contract #4210 which covered both engineering and construction of Naval Shore Establishments in the 13th Naval District. After Pearl Harbor, the work carried on with feverish intensity, days, nights, and Sundays. For some time, all windows were blacked out with light-tight plywood panels, always after dusk and even in day-

light for several weeks. They were also air-tight, with no special means of ventilation. The contract was wound up in 1943 and the force was largely disbanded. However, the Navy itself was assembling a civilian engineering staff at the 13th Naval District Headquarters in Seattle and Brother Vinal was urged to join it.

So October 1943 found him back in government Civil Service which he had left thirty-five years before, only this time in the Navy (Public Works-Design Division) as a Civil Engineer. The 13th District covers Washington, Oregon, Idaho and Montana with a scope of activities broad and varied enough to tax the ingenuity and satisfy the desires of almost any engineer. It handles the engineering for all the establishments in the District, although the larger ones have local staffs to serve the resident requirements and details.

The list of establishments is long (several hundred). Brother Vinal personally has a hand in some phase of practically all of them. He has recently had a number of projects in connection with the new Naval Radio Station near Arlington, Wash., known as Jim Creek, or "Big Jim", the largest installation of its kind in the world. The transmitter building in the canyon below is crammed with equipment which Brother Vinal says would "make Buck Rogers' mouth water". Some of it has never been used anywhere. Work was started on this project in 1947. Although some construction is still going on, the station was put in commission last fall. As part of the ceremony, messages were broadcast direct to and received from ships in the Mediterranean, the Artic, South America, Australia, Okinawa, and South Africa.

Brother Vinal has been with Naval engineering for thirteen years now, over ten with the Navy itself. There is enough of the work in sight to keep a lot of men busy for another ten years, so it looks as if he were anchored until the time comes to retire. Having nearly reached the goal twice, only to stub his toe and start again, it looks as if the third time might be compulsory.

He is a charter member and one of the organizers of the Engineers Club in Seattle (about 1910) although he is not now a member. He joined the Loyal Order of Moose while in Alaska and the B.P.O. Elks in Bend, Oregon. While there, he was one of the committee which reorganized the Chamber of Commerce. He also organized the Deschutes County Realty Board and was vice-president when he left there. He is a member of the Mercer Island Community Club and, a few years ago, helped organize, and is a charter member of, the Mercer Island Chamber of Commerce. He is an Episcopalian but says he does not work very hard at it.

Brother Vinal considers his best achievement is his family. He has a "very wonderful" wife and four children—a son and three daughters. All attended the University of Washington. He has fourteen grandchildren. His daughters all live on Mercer Island and their husbands are successful. Two are lawyers and the other an engineer.

His son is a graduate Aeronautical Engineer, got his early flying training in the Navy, and has been with Pan-American Airways for about twenty years. During the war, he pioneered the routes from South America across Africa to Egypt and over to India. He flew one of the planes which took Roosevelt to Casablanca and back. He

is Capt. Richard W. Vinal and now Asst. Chief Pilot Technical of the Latin-American Division of Pan American World Airways.

Brother Vinal writes,

I am sure the early days of the Fraternity have long since been adequately covered by Erich Schrader far better than I could. You see, Erich and I roomed together, he as a senior, I as a soph. Murray Lewis and I had paired as freshmen. Ike Hanks was a friend of all of us. We had many discussions on the idea and plans for starting a professional fraternity, one which would choose its members on the basis of their personal merits, regardless of any particular social standing or fraternal connections (or lack of them) which they might have at the time.

Erich was the one who was the prime mover and chief planner. Even then, he had a special penchant for such things which, through the years, has grown, blossomed and fruited to the everlasting benefit of the Fraternity and all connected with it. Not the least factor in this has been his prodigious memory of people, names and events. I think I was the one who proposed the original name of Hammer & Tongs. Our first initiate was Ralph Edgerton. The scene was the tower bedroom occupied by Erich and myself in Mrs. Parr's boarding house. It was shortly after this that Murray and I made the move to Golden, Colorado.

There, we found that the students did not appear very "fraternity minded". Two social frats had been started, neither in very good repute locally at the time, and were having hard sledding. We were so engrossed in trying to get caught up with the curriculum that we were unable to make any progress. Murray gradually got together a small group of good fellows, most of whom returned to school the following year and were established as Gamma Chapter in November 1907. Not having returned that year, naturally I missed the boat.

You will note that events and circumstances seem to have conspired to keep me very much out of touch with the affairs of Theta Tau. (I have even had two of the original pins stolen from me, so haven't owned one for many years.) I have occasionally met one of the brothers, always in unexpected places, anywhere from Massachusetts to Alaska. Such encounters have always been a delight. My copies of *The Gear* have been read with keen interest. I shall look forward to being with you in October.

Murray Lewis, *Founder - Roll No. 3*

Became President of Layne Organization

The following account of Founder V. M. Lewis' business career is typical of many graduates in engineering specialties who follow their best opportunities and drift away from the specific engineering field in which they are educated.

For the past thirty years, he has been associated with the Layne Organization—a national and international group of companies who are specialists in Ground Water Engineering and production. They have a unique position in this field in that the parent company, Layne & Bowler, Inc. of Memphis, Tennessee is a manufacturing unit and produces the pumps, well screens, casings, and other materials and equipment for export. The other companies in the organization form their market for distribution of their products and cooperate with the United States Geological Survey and numerous state bureaus in making available technical data developed.

Brother Lewis' activities have been with Layne New York Co. who operate in New England, New York, New

Jersey, Pennsylvania, and Delaware. He has held all titles from sales engineer to president in a span of thirty years, beginning in 1924. At present he is beginning to slow down and take a less active part. He is not ready yet to retire but is approaching that status.

From the array of jobs he held in the past, prior to his present and permanent affiliation, each job provided a unique experience and contributed

something of permanent value—several were purely "experience jobs."

His first job was on a survey crew in the Mesabi Rouge Iron section of Minnesota. Next he spent the summer of 1903 in a placer mining camp in Nome, Alaska.

Brother Lewis worked in mines and mills in Colorado, Arizona, and Nevada during vacations and after graduation. Immediately after graduation he spent one year in Guanajuato, Mexico on a silver project.

In 1911, due primarily to a recession in the industry, he joined the Stone and Webster Engineering Organization and worked on construction projects for several years in Minnesota, Iowa, New England, and Canada. Then having married and having acquired a family, he decided to settle down in some business that would permit a permanent home. He had several jobs in the export field in New York and finally joined the Layne Organization in 1924 when they opened up their eastern territory.

Brother Lewis writes,

I am very proud to be a member of Theta Tau; its growth is amazing to me. I contributed a small part in its organization—others must be credited for its development into a prominent engineering fraternity.

I always believed that its future lay in expansion into all engineering fields, although it began as a local mining engineering chapter at the University of Minnesota; and the results in membership and representation in leading engineering schools certainly proves it.

My heartiest congratulations to Theta Tau on its 39th Anniversary.

Isaac B. Hanks, *Founder = Roll No. 3*

Became Successful Business Man

Brother Isaac B. Hanks was graduated from the University of Minnesota in 1907 and became Secretary-Treasurer of Northwest Milling Company, Little Falls, Minnesota. From 1908 through 1913 he was engaged in the installation and operation of retail lumber yards in North Dakota and Montana, later doing the same kind of work in Manitoba, Saskatchewan, and Alberta, Canada. During this period he also bought and sold grain.

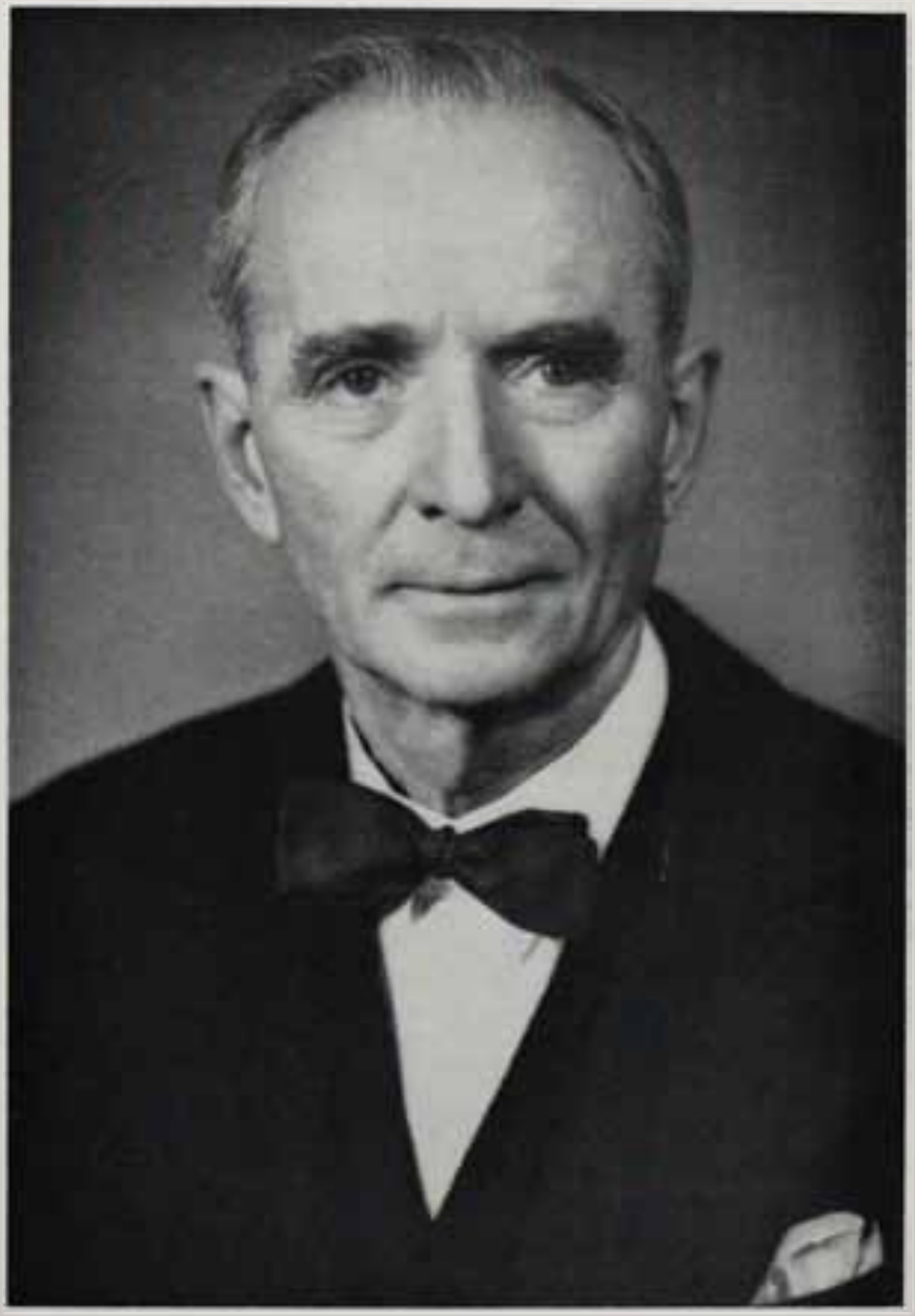
In 1914 he reorganized a flour milling operation in Alberta, Canada. In November of that year Brother Hanks was retained by the federal government to make a survey and study the problems of the lumber industry concerning national supply and distribution. In 1915 he organized I. B. Hanks and Associates, Business Counselors.

From 1917 to 1918 Brother Hanks had a special assignment with the federal government as an "Expert in Business Administration" in connection with the war effort.

At the present time he is engaged in the manufacture and distribution of lumber. He is a member of the social fraternity, Delta Tau Delta, and lives in Spokane, Washington.

Brother Hanks has writtten,

Looking back to the early days of our Fraternity, my outstanding impression is the intense earnestness that characterized its members; the care with which, under the wise counsel of Brother Schrader, each move was planned; the careful scrutiny of the background and character of each



man suggested as a possible prospective member. Each was imbued with the idea of a slow, sound growth. The same careful consideration was given to selection of institutions for future chapters. Their standing among the engineering schools of the country and reputation of their graduates among members of the profession were matters for serious debate.

"Conservation" was the watchword. The subsequent growth and development of Theta Tau has fully justified the faith, and lived up to the ideals, of its founders.

Grand Regents of Theta Tau

Erich J. Shrader, *First Grand Regent*

Founder Erich J. Schrader became the first Grand Regent of Theta Tau when the Fraternity was founded and held the position by mutual agreement until the first National Convention in 1911. At this convention he was officially elected to continue in office and remained at the helm until 1919 when he began his long service as Grand Scribe.

Brother Schrader's biography appears on page 5.

George W. Louderback, *Founder of Epsilon,*

As one of the petitioning group, George W. Louderback was initiated as a charter member at the installation of Epsilon Chapter by Erich Schrader on May 4, 1911. At that time Brother Louderback was Associate Professor of Geology at the University of California. In 1914-16 he led a geological expedition which included four members of Epsilon. First they went into north China for the Standard Oil Co. of New York, then into Szechuan province for the Chinese government, and finally to Cebu Island, Philippine Islands, for Standard Oil.

In 1917 he became Professor of Geology. During the first world war, he was chairman of the committee on geology and mineral resources of the State Council of Defense, 1917-19, and in charge of the cooperative War Mineral Investigation in California (1918-19) for the U. S. Bureau of Mines, U. S. Geological Survey, and State Council of Defense. He maintained several parties in the field manned by Theta Taus. In 1920 he accepted the deanship of the College of Letters and Science in order to reorganize the rules and curriculum, and when this was accomplished and operating successfully, he resigned in 1922.

For a number of years Brother Louderback was chairman of the faculty budget committee, member of the Engineering Council, and chairman of the Department of Geological Sciences. In 1928 he served on a State commission to determine the cause of the failure of St. Francis Dam, and has served on a number of State and other consulting boards in connection with problems in engineering geology. He served again as dean of the College of Letters and Science from 1930 through 1939. He was elected Faculty Research Lecturer for 1939-40, and received an honorary LL.D. degree at California in 1946. He became Professor Emeritus in 1944.

During world war II Brother Louderback was chairman of the Emergency Executive Committee at the University of California and was chairman of the Kensington civilian defense council. He served on the Advisory Administrative Board for Santa Barbara College, 1944-12.

He has written scientific publications on structural and stratigraphic geology, mineralogy, faults and earthquakes, physical conditions and geological history of San Francisco Bay, and engineering geology.

Brother Louderback is a member of the following scientific and technical societies: Geol. Soc. of Am. (vice-

president 1936; secretary, Cordilleran Section, 1906-11—chairman 1919-22); Seismological Soc. of Am. (secretary 1906-10, president 1914 and 1929-33, editor of bulletin 1931 to date); A.I.M.M.E.; Am. Mineralogical Soc.; Soc of Economic Geol. (vice-president 1939); Am. Assoc. of Petrol. Geologists; A. G. U.; Am. Geographical Soc.; Calif. and Wash. Academies of Sciences; and Am. Assoc. for the Advancement of Science.

Brother Louderback writes:

When I became Grand Regent in 1920 the Fraternity had ten chapters (and one authorized). Even at that time Theta Tau was generally recognized as the most important professional engineering fraternity, and during the following two years locals at fifteen institutions entered into correspondence with our Fraternity with regard to the possibility of obtaining charters. The majority of these institutions were of good standing from the engineering viewpoint and worthy of having chapters of Theta Tau. But the chapters hesitated to act because of the lack of a definite national policy of expansion. The feeling began to arise that if we did not enter the remaining better class of institutions with reasonable rapidity, their need would invite some other fraternity to cultivate the field and perhaps take the leadership away from us. This came to a head at the Fifth Biennial Convention in 1921 on my initiative, and after much discussion the matter was clarified and appropriate

changes were made in the Constitution. During my tenure of office (six years) nine new chapters were installed: Lambda, Mu, Nu, Xi, Omicron, Pi, Rho, Sigma, and Tau, at the first five of which I personally officiated.

Another important matter which came up was that of the essential character of a professional fraternity, as some of the chapters had veered towards the type of honor society (sometimes called fraternity), or the social fraternity. The most extreme case that arose was that of a chapter which we found was operating as a social fraternity (of engineering students) with exclusive membership as against social fraternities. This constituted two sources of damage to our fraternity: choice of members was practically confined to freshmen in competition with social fraternities, with limited knowledge of the neophytes' devotion to or competence in engineering, and the exclusion of those found to be excellent men in their later years because they had joined a social as freshmen. It was feared that the only course was to lift the charter. Some ten days of my personal time spent on the ground in a study of the situation and in conference with the actives and with interested faculty members led to a thorough and mutually satisfactory reorganization of the chapter on Theta Tau principles. Naturally at the next Convention there was much discussion, to the benefit of all chapters, of the fundamental and distinguishing characteristics and purpose of a real and worthwhile professional fraternity.

The most recent Convention which I had the pleasure to attend and to take some part was the Sixteenth Biennial at Louisville in 1946. It was an important convention in many ways, one of which was the invitation of all chapter advisers, for whom time was arranged for a meeting to talk over their experiences and problems. Convention attendance is a stimulating experience when one sees the whole Fraternity in action through its representatives and where fraternal spirit and devotion to the welfare of Theta Tau prevails.

J. Sidney Marine, *Former Grand Regent*
Offers a Code for Young Men

J. Sidney Marine was initiated at Eta Chapter, Massachusetts Institute of Technology, in 1917. In June of that year he left to join the Air Service, and served in France in World War I.

After the war he returned to MIT and graduated in 1921. During those postwar years he was Regent of Eta Chapter and delegate to the convention at Case in Cleveland, where he first met Brothers Schrader, Vawter, Hopkins, and others of the Council.

On graduation, Brother Marine entered the building stone sales business in New York City. It was about a year later that the Convention at Kansas City elected him Grand Vice-Regent. Grand Regent Louderback was absent from the next Convention at Ohio State; consequently Sidney Marine presided and was elected Grand Regent.

There followed a most interesting period—field trips to various colleges; the reorganization of Theta Chapter at Columbia, which had become defunct during the war; the lifting of Eta's charter at MIT; the installation of Rho Chapter at N. C. State in 1924, with the help of Past Grand Regent Fred Coffman; the attendance in Washington, D. C., as Theta Tau's representative, at the formation of the Professional Interfraternity Conference; and correspondence in all directions. It was a fruitful and rewarding period.

At the next Convention at Iowa, Richard Russell was elected to succeed Brother Marine as Grand Regent. Thereafter Brother Marine's affairs followed along lines of business and

family activity. He moved to Westchester County (N.Y.) and progressed in general until hit by the depression in 1932. In the attempt to ride out this storm, he engaged in tutoring local high school students. From this has grown a very satisfactory tutoring business. Meanwhile his only child, a son, grew up, graduated from Yale, served as an officer in the Navy in the Pacific, and gave him two little granddaughters. (Brother Marine cites this as an indirect accomplishment.) During the Second World War he helped on a Navy project in Florida—

the writing of a training manual and a textbook on air bombing, an experience he found most interesting. He also did much substitute teaching at the Scarsdale, N.Y., High School.

Brother Marine has written,

> This summarizes reasonably well the years between. They were exciting, dangerous, challenging and rewarding. I would not wish an easy life on the younger brothers, but I would suggest the following thoughts for their consideration:
>
> 1. That peace of mind is more to be cherished than riches.
> 2. That any legitimate business is the right one if they are fitted for it, if they are happy doing it, and if it offers a chance for service to others.
> 3. That whatever the job, they give full measure and more.
> 4. That they apply the golden rule always.
> 5. That they cultivate an attitude of mind to live constantly in the expectancy of good.
> 6. And that they never lose sight of the value and power of things of the spirit.
>
> Greetings and best wishes to all.

Richard J. Russell

Former Grand Regent, Now World Traveler

Richard J. Russell, Eta '19, Grand Regent from 1928 to 1932, is now Dean of the Graduate School, Louisiana State University. His Ph.D. degree was earned in structural geology in 1926 at the University of California, under George D. Louderback, Grand Regent from 1920 to 1926. After serving two years as Associate Professor of Geology at Texas Technological College, Brother Russell accepted an appointment at L.S.U. in 1928, where he rose through the various academic ranks. He was Assistant Director of the School of Geology while Brother Henry V. Howe, Eta '19, was serving as Dean of the College of Arts and Science. He attained his present position in 1949.

In the environment of Louisiana it was natural that Brother Russell turned from the "hard-rock" of the Far West to problems of rivers and coastal marshes. Today he is one of the Directors of the International Association of Sedimentologists and one of five members of the International Commission on Coastal Sedimentation. He has published more than seventy-five scientific articles, and is co-author of several books. He served as a member of the Executive Committee of the Geological Society of America, 1950-1952; as president of the Association of American Geographers, 1948; as a civilian member of the Committee on Geophysics of the Research and Development Board of the U. S. Department of Defense, 1948-1953; and today is a member of the Earth Science Panel of the National Science Foundation, and chairman-designate of the Earth Science Division of the National Research Council.

Brother Russell has spent much time abroad. In addition to attending international congresses in Paris, 1931; Moscow, 1937; Amsterdam, 1938; London, 1948; and Algiers, 1952, he made a detailed study of the Rhone Delta in 1938, of silts in Belgium in 1948, and spent several months in 1952 studying the coast of French Morocco and the rivers of Asiatic Turkey. In 1948 he was made an honorary member of the Belgium Society of Geology, Paleontology, and Hydrology, and for some years previously served as Associate Editor for North America of a German periodical,

the *Geology of Oceanic and Inland Waters*. He has held visiting faculty appointments at the universities of Ghent and Istanbul.

For many years Brother Russell attended Theta Tau Conventions, first as a chapter delegate, then as Grand Marshal, Grand Regent, and as a visitor. As Grand Marshal he designed and issued the first five thousand membership "shingles", and designed the robes used by chapter officers.

Contrasts tended to arise between chapters in those days; house versus non-house, and mining versus engineering without mining and geological interests; but there was little to stand in the way of a real union at times of Conventions. The delegates were typically outstanding men and several days and nights of hard work cemented many fine friendships. It was felt desirable to formalize an effective program of chapter visitations and to

place particular emphasis on desirable chapter activities, to strengthen some of the less active groups, and even to revoke a couple of charters where local conditions rendered it unwise to continue chapter organizations. Petitions were being received in large numbers, but Conventions were very conservative about approving them. The philosophy prevailed generally that a smaller fraternity with excellent chapters is more desirable than a larger organization with loose bonds and too many weak links in the chain. Brother Russell not only visited many of our active chapters, but also installed Upsilon and Chi. He reported on a number of petitioning groups after looking them over on their home campuses.

Such pressures as having been president of the Conference of Deans of Southern Graduate Schools and being General Chairman for the meetings of the Geological Society of America in New Orleans in 1955, have diverted Brother Russell from an active participation in Theta Tau activities in recent years, but they have not reduced his loyalty or interest in the welfare of the Fraternity. He may be remembered for a vigorous speech a few years ago at a Chicago Convention in reaction to arguments on the membership clause which he felt were Communist inspired.

Throughout the years Brother Russell has retained the nickname, "Dick," whether in circles of University presidents, various groups in Washington, or among his faculty and student colleagues in Baton Rouge.

Fred Coffman, *Grand Regent, 1931-35*

In Memoriam

Fred Coffman, the fifth Grand Regent of Theta Tau, served the Fraternity consecutively from 1921 to 1937. He began this period of service in 1923 when he had one term as Grand Outer Guard. At the end of the biennium he was elected Grand Vice-Regent and held that position from 1927 through 1931. In 1931 he was elected Grand Regent of the Fraternity and served two terms, 1931-1935, following which he remained on the Executive Council for another biennium, terminating his service in 1937.

Brother Coffman was born in Springville, Utah on March 24, 1894, and later attended the University of Utah for three years. There he joined the U-Tech Club which was later to become Lambda Chapter of Theta Tau.

He dropped out of school for five years to serve as an assistant construction engineer for the Utah-Idaho Sugar Company. He still wanted his engineering degree, however, and therefore spent a year at Leland Stanford from which he was graduated in 1932 With Distinction. In fact, he was allowed to take his examinations early so that he could sail for Alaska as Chief Draftsman for the Pioneer Coal Dredging Co. He later associated with a firm of consulting engineers in Charlotte, N. C. and during the Depression years was a field engineer for the W.P.A. in that state. During the second World War he worked in the U. S. Enginer Corps on construction projects and after the war went into private construction work.

Throughout his life Brother Coffman had three great interests aside from his business efforts. They were sports, moving pictures, and fraternities. As a runner on the University of Utah track team, he developed an early interest in athletics which was later transferred to football—in one year he attended thirteen games. Rivaling his interest in athletics was his interest in moving pictures—he often saw three films in one day.

His interest in fraternities, however, was not of the spectator variety, and he gave freely and unselfishly of his time to help in any Theta Tau project. He helped install the Rho, Sigma, and Gamma Beta Chapters of Theta Tau, visited chapters as a national officer, and was a hard worker at national conventions for more than a decade.

Brother Coffman met an untimely death at the age of 57 when he was killed in a construction accident near Norfolk, Virginia, on April 5, 1951. Although in his active career he held many titles, he always preferred to sign his name above the designation "No. 32, Lambda Chapter of Theta Tau."

H. H. Hopkins, *Grand Regent, 1935-37*
Was Member of Rhombohedron Club

H. H. Hopkins was initiated No. 21 in Beta Chapter as an alumnus of the Rhombohedron Club. He graduated from Michigan Tech in 1908 with the degrees of B.S. and E.M. Due to the death of his father, he joined the family firm in Chicago and has been with it ever since, handling wholesale building materials. He has served as an officer with several business and credit associations. He was interested in Y.M.C.A. work during the first war and served on several industrial committees.

"Hop" was one of the founders of the Chicago Alumni Association of Theta Tau and also helped found the local alumni group of Michigan Tech. He has been active in each through the years. He served as a chapter officer in college, was Grand Scribe from 1910 to 1919, was appointed Acting Grand Vice-Regent during the illness of Brother Hall and served as Grand Regent from 1935 to 1937. He later assisted Grand Regent Glass during his absence on war service. He participated in the installation of Zeta, Sigma, Gamma Beta, and the reactivation of Xi Chapter.

Brother Hopkins served on the Executive Committee of P.I.C. He

served on the Board of Managers of Michigan Tech Alumni and as a Trustee of Michigan Tech Foundation in raising funds for a new Union Building. He is a member of the Episcopalian Church, Masonic bodies, and service clubs. He married Irene Harper in 1911 and has one son and three grandchildren.

During his term as Grand Regent, regional meetings were inaugurated and the Cope plan for rating chapters was explored; mail questionnaires were used for chapter contacts; most of the chapters were inspected; some alumni associations were visited; and P.I.C. participation was increased.

"Hop" is general chairman of the Golden Anniversary Committee.

John M. Daniels, *Grand Regent, 1935-37*
Has Served the Fraternity for 20 Years

John Daniels is a Pennsylvania product from beginning to end. He was born at Blairsville Intersection, Pa., in 1897, educated at the Kiski Preparatory School graduating in 1917, and at the universities of Pennsylvania, Pitts-

burgh, and Duquesne, receiving his B.S. in Civil Engineering from the second in 1922 and his Ph.D in Education from the latter in 1948.

Two years after graduation from college he persuaded a Pennsylvania

girl to marry him and like most Americans of that period they had a boy and a girl to round out the family circle.

Aside from work with the Pennsylvania Railroad during his college years, Brother Daniels has followed an academic career from the start. Beginning as an instructor in Civil Engineering at Carnegie Tech he became an assistant professor and in 1938 was made Chairman of Admissions. In turn, he became acting Director of the Division of Student Personnel and Welfare, and, in 1944, Acting Dean of Students.

He has served on the National Board on College Entrance Examinations, as Secretary-Treasurer and President of the Middle States Association of College Registrars and on several local scholarship committees.

Brother Daniels began his Executive Council service when he was elected Grand Outer Guard in 1931. He held successively the offices of Grand Inner Guard, Grand Vice Regent, and

in 1937, Grand Regent. In 1946 he resigned his position as Delegate at Large after fifteen years of service to the Fraternity. However, in 1949 he was called upon to fill the unexpired term of Brother George Carter as Grand Marshal, and fulfilled the duties so well that he was elected to that position by the 18th Biennial Convention and reelected in December of 1952.

Brother Daniels is active in his profession and in many other organizations. He is a member of the Am. Soc. for Engr. Education; Phi Kappa Phi; Omicron Delta Kappa; Alpha Phi Omega; Masons, Coudersport Consistory, Syria Temple Shrine; the Edgewood Club, and serves on the Board of Trustees of the Kiskiminetas Springs School. Along with these avocations he finds time for sports and books; and bridge is another pastime with which he is more than slightly acquainted.

Fortunately for the Fraternity, John M. Daniels continues to bring his ability and administrative experience to the record-keeping problems of Theta Tau.

Past Grand Regent Russell G. Glass

Keeps Active on Many Fronts

Russell G. Glass, Grand Regent from 1939-1946 was one of the founders and a charter member of Sigma Chapter, Ohio State University. He graduated in Civil Engineering, Class of 1925.

He is now Vice President and Treasurer of Moore & Glass, Inc., Cleveland, Ohio, contractors and designers of steel, timber, and concrete framing of buildings. He is a Registered Engineer, State of Ohio; a member of the Cleveland Engineering Society; American Institute of Timber Construction; Kiwanis Club (Past President of Euclid Club and Past Lt. Governor Ohio District, Kiwanis); Phi Sigma Kappa; Y.M.C.A. Board; Al Koran Shrine; Euclid Chamber of Commerce; Pine Ridge Country Club; American Legion; and the East Shore Methodist Church. He is also a Lt. Cdr., U.S.N.R.; President of the Euclid Board of Education; Past President of the Professional Interfraternity Conference; and a member of the P.I.C. Executive Board.

He lives at 23401 Chardon Road, Euclid, Ohio, is married, and has three children—Janet (Mrs. A. W. Bluem), Thomas (Lt. j.g. U.S.N.R.), and Mary. He also has two grandsons.

Brother Glass reports that his attendance at the Silver Anniversary Convention at Minneapolis in 1929 as a delegate of the Central Ohio Alumni Association stimulated his interest in the Fraternity. When he observed first hand the leaders in action, including some of the men who are today giving their best to the success of Theta Tau, he felt that they deserved and should have the support of every member. Four years later he became Grand Outer Guard and in 1939 was elected Grand Regent, a position he considers to have brought to him the greatest honor he has ever held.

During the six years previous to his election as Grand Regent he had the finest of training under Schrader, Hopkins, Vawter, Curtis, and Daniels. Under Grand Regent Hopkins he was

assigned the project of setting up Regional meetings and attended one of the first held as representative of the Executive Council.

Some highlights of his term as Grand Regent were:

In 1940 he made a grand tour of the chapters and a good many Alumni Associations, This was without question an education in itself and of the greatest aid in administering the affairs of the Fraternity. About this experience he has written, "One little realizes the size and scope of Theta Tau until he has an opportunity to make such a trip." It was on this journey that he presided at the Regional meeting at Salt Lake City sponsored by Lambda Chapter, and attended an Inter Mountain Alumni Association banquet where nearly two hundred Theta Tau's were in attendance. Everywhere the welcome mat was out and the appreciation of

his visit was more than gracious.

Brother Glass says about the war years,

> Little did we realize the seriousness of the years to follow at the Convention in 1941 when I was re-elected for another term, nor did I expect to be in uniform myself before the next year was over. I received my commission in the Navy in the summer of 1942 and went on active duty in October. From then until February 1943, when I was assigned to the 1st Amphibious Force for duty in the Mediterranean, I continued to operate from New York where I was stationed. Past Grand Regent H. H. Hopkins was named acting Regent while I was out of the country, and neither he nor I expected that it would be 27 months before I returned. I was released from active service in November 1945 and Hopkins, who had done an outstanding job in holding the Fraternity together through almost three of the most hectic years in our history, turned the job back to me.
>
> The fact that we are as strong as we are today is a compliment to his fine administration. Due to the war no convention was held in 1943 or 1944, and in 1946 at Louisville, I retired.
>
> Only a few of the chapters went inactive during these years and most of them, through N.R.O.T.C., had their greatest growth.
>
> I feel that my association with the members of our Fraternity has given me much more than I can ever repay in services, and I sincerely trust that in a small measure I have made some contribution to the success of Theta Tau in keeping with the example of those who carried on before and after me.

Ralph W. Nusser, *Grand Regent, 1947-48*

Is Active Kansas Citian

Ralph W. Nusser was born in St. Joseph, Missouri on June 6, 1903. After graduating from Central High School in Kansas City, he entered the Liberal Arts School at the University of Kansas in September of 1922. After three semesters, he finally decided to enroll in the Department of Civil Engineering of the School of Engineering.

He was pledged by Zeta Chapter in the late spring of 1924 and his initiation took place in March 1925. He served two consecutive terms of office as Regent of the chapter and held other offices at various times. He was graduated in June 1928 with the degree of B.S. in Civil Engineering.

Brother Nusser started work as a draftsman in the Elevated Tank Department of the Chicago Bridge and Iron Works, Chicago, Illinois. After one year he returned to his native state, joining the Kansas State Highway Department's Bridge Department at Topeka, Kansas in 1929. The next year he moved to Kansas City and for two years was in the Kansas City sales office of the Truscon Steel Co. Then came the Great Depression, so he turned to real estate sales and property management with the A.P. Nichols Investment Co. in Kansas City, where he stayed for three years. Finally he joined the Sheffield Steel Corporation in August 1933. He started in the Engineering Department, went into the Sales Department in 1937, and has represented this company in the Steel Joist Department since 1945.

In 1933 Brother Schrader wrote Ralph Nusser and asked him to inquire about alumni interest in a Kansas City Convention in December 1933. With the help of many men he organized the alumni and they acted as hosts to an excellent convention in

the Hotel Newbern. At this convention he was elected to the office of Grand Outer Guard, and at succeeding conventions was elected Grand Inner Guard (Chicago, 1937), Grand Vice-Regent (Chicago, 1939), and in December 1941 was reelected to the office of Grand Vice-Regent. At this convention he submitted the first draft of the Pledge Manual. After much consideration the manual was published, and is still being used.

At the first convention after World War II he was elected Grand Regent (Louisville, 1946) and served in this capacity for two years, 1947 and 1948. Some highlights of his term as Grand Regent were: Omicron Chapter was revived with six men and a Chapter Adviser, Xi Chapter was rechartered at Wisconsin after many years of inactivity, and there was a great influx of returning GI's at all the chapters, many of them being unusually large

during this period. Brother Nusser carried on a two-year debate with Brother Doherty at Carnegie. This period was the beginning of the end of Nu Chapter. He also debated the White Clause with members of Tau Chapter off and on during the period and quieted the situation there. He had the usual problems of "keys", changes in the Ritual, recognizing new branches of Engineering, etc. There were two or three discipline problems, one in his own chapter, but nothing very serious in that department. He also visited several chapters and alumni groups.

Brother Nusser is married and the father of a son, Robert, 20, a sophomore at Baker University; and a married daughter, Barbara Nusser Hucke. He is a mason and a Shriner, and also a Methodist. He is Past Master of Ivanhoe Masonic Lodge, #446 AFAM of Missouri (1949). He is a member of Cosmopolitan Club International, and a member of the Engineers Club of Kansas City, Missouri. He is the Church School Superintendent and Past President of the Board of Stewards of Linwood Methodist Church, Kansas City, Mo.

Norman B. Ames, *Grand Regent, 1948-50*
Is Charter Member of Gamma Beta

Norman B. Ames began his formal association with Theta Tau on March 13, 1935 when he was initiated as a charter member of Gamma Beta Chapter during installation ceremonies. Since then he has served the Fraternity in various capacities including Chapter Adviser of Gamma Beta, Grand Outer Guard, Grand Inner Guard, Grand Vice-Regent, Grand Regent, and Delegate-at-Large.

He has served on the faculty of The George Washington University with the following exceptions:

1. He completed requirements for the Master of Science degree in Electric Engineering at MIT and received the degree in June 1935.

2. From September 1940 to September 1941 he served a year of extended active duty in the Air Corps.

3. He was recalled to active duty in December 1941, after Pearl Harbor, as a major with duty in Air Corps Headquarters, Washington, as Assistant Executive and Executive, Operations Division. Promotion to Lieutenant Colonel in March 1942 and Colonel in December followed. While on duty in Washington he served as Director of the Civilian Pilot Training Program at The George Washington University and during this time was initiated into Omicron Delta Kappa in 1942. In April 1945 he was ordered to Italy as Information and Education Officer for the Air Force in the Mediterranean Theater and upon deactivation of Headquarters AAF/MTO he became Information and Education Officer for the Peninsular Base Section. He was relieved from this duty in January 1946, separated from the service, and resumed his work at The George Washington University February 1st.

4. During the academic year 1951-52 he was on sabbatical leave for fifty-three weeks at the Swiss Federal Institute of Technology, Zurich, fulfilling all requirements, except final approval of the dissertation, for the degree of Doctor of Technical Sciences.

During the summer of 1946 Brother Ames took an interest in local politics, particularly in the fight for Home Rule in his home county, Montgomery (Maryland). Elected in November a member of the Charter Board, he was Chairman of the Board which wrote the Charter, basic law and framework of the present Council-Manager form of government.

In May 1947 he was elected Vice-Chairman of the Washington Section, American Institute of Electrical Engineers, becoming Chairman in June upon the death of the incumbent Chairman. Another bit of unfinished business for Brother Ames is initiation into Tau Beta Pi. The Mississippi State College chapter selected him among seventeen former graduates. He could not attend the December 15, 1933 initiation and hopes to be initiated by the University of Maryland chapter in the near future.

Finally, by way of vital statistics, his oldest daughter is married and has three children—two boys and a girl. It is his hope that one or both grandsons, Joseph Ames and Bruce Patrick Vivari, may be Theta Taus some day. When his second and last daughter, a junior at G.W.U. marries he hopes to retire from active teaching and do some of the things he has never had time to do.

Brother Ames was Grand Vice-Regent of Theta Tau from 1946-48 and Grand Regent, 1948-50. About

his term as Grand Regent he has written:

Early indications were that the term of office would not be a tranquil one. At the first meeting of the Executive Council immediately following adjournment of the Convention, Brother George W. Carter, newly elected Grand Marshal, announced that he must, with profound regret, resign his office because of conflicting personal affairs.

Later Brother John M. Daniels, Nu Hon '22, was appointed Grand Marshal, with the advice and approval of the Executive Council as provided by the Constitution and By-Laws, effective February 1949. All members of the Executive Council rendered willing and full cooperation with the Grand Regent. It was a real privilege and honor to work with them.

Chapter advisers accepted appointments and responsibilities and gave generously of their time. Most of them were reappointees; some replacements were necessary because of circumstances. High tribute is due these brothers who year in and year out serve the Fraternity without glamour and with scant praise. Generally, a chapter is no better than its adviser. Chapter officers performed their duties well with the usual "headaches" to the Grand Scribe. Good officers, particularly regents, make good chapters, but unfortunately good chapters do not always elect good officers and the results are swift and sure.

In March 1949, upon invitation of President Doherty, I went to Carnegie for a pleasant conference with him and Dean Jones. There was, however, no indication that the Institute's decree against constitutional restrictions on membership would be lifted. Considerable sympathy with the decree prevailed within the chapter and it was declared inactive.

The 1948-50 Biennium was otherwise uneventful. No serious problems of discipline or finance arose. This is significant in view of the general overstrength of most chapters because of post-war congestion in colleges and universities. Membership increased from 11,066 to 12,113 and assets from $61,000 to $71,600 in spite of heavy outlays for regional conferences. Alumni activities were satisfactory. Particular mention should be made of Sigma Chapter under the leadership of Brothers Jack Dumbauld and Russ Glass.

Efforts of expansion or colonization were somewhat disappointing, but good results were had at Wayne University, Detroit. A strong local there was investigated, eventually accepted, and installed in May 1951 as Epsilon Beta Chapter by my successor, Grand Regent Don Curtis.

The final event of the Biennium was the Convention in Kansas City, arranged by Past Grand Regent Ralph Nuzum and the Kansas City Alumni. It was with mingled emotions of relief and regret that I turned the gavel over to the new Grand Regent, Donald D. Curtis.

D. D. Curtis, *Grand Regent, 1950-52*

Completes Almost Thirty Years of Service to Theta Tau

Donald D. Curtis was initiated as Omicron's second honorary member in 1923 during his early faculty years at the University of Iowa. A number of the charter members were his intimate friends from student days there only a few years before, so association with the Chapter was close from the beginning. Ned Ashton, John Folwell, the two Schuleen boys, Ed Nielsen, Paul Mercer, Vern Muth, and dozens of others made a group he enjoyed working with.

Only a few months after his initiation, a telegram from the Omicron delegate at the Columbus Convention, the Seventh Biennial, asked if Brother Curtis would consider editing the Gear. The result of that was three busy years, with reorganization of the magazine; getting out the Fourteenth General Directory; contacts with

and receive the B.S. degree in Civil Engineering in 1916.

He served in World War I from 1917 to 1919 as 1st Lt. and Captain, Corps of Engineers. His outfit was the 315th Engineers who were in France and Germany for a year, participating in two battles, St. Mihiel and Meuse-Argonne. Back in the United States, Brother Vawter returned to the railroad for one year as assistant engineer, then spent 1920 to 1922 as assistant professor of Mechanics at the University of Kansas. In 1922 he made a one way trip to the University of Illinois. Since that time he has taught Civil Engineering, becoming a full professor in 1937.

Jamison Vawter was initiated into Zeta Chapter in 1916, and his continued interest in the Fraternity is shown by his record of service. He was elected Grand Outer Guard in 1921, and Grand Treasurer in 1923. The latter position he served faithfully for twenty-seven years. The first twenty-

five of these were very active, but in the last two years Brother Schrader took over the detailed work of the chapter accounts, since Brother Vawter's administrative duties at Illinois had accumulated with the years.

He has also been active in the Professional Interfraternity Conference. He served as their vice-president, as a member of the Executive Committee, and held a two year term as president during the early years of the organization.

Besides his active teaching career and his time given over to Theta Tau, Jamison Vawter is a joint author of two books: *Theory of Simple Structures*, with Thomas C. Shedd (Hon. Kappa) and *Elementary Theory and Design of Flexural Members*, with James G. Clark. Both of these books are published by John Wiley and Sons.

In 1922 he married Theresa O'Brien and they have two children: Jeanne (Mrs. George H. Weatherbe) who now lives in Sao Paulo, Brazil, and Patricia whose home is in New York City.

Even his hobbies have grown more strenuous, as outside duties forced him to give up fishing. He now considers his chief recreation to come from taking part in politics, as he has been a member of the Urbana City Council for a great many years, in charge of the street department, and a member of the Board of Local Improvements.

Professionally the Grand Regent is a member of Sigma Xi, Tau Beta Pi, Chi Epsilon, Tau Nu Tau, and Scabbard and Blade. He also maintains his membership in the American Society of Civil Engineers, American Railway Engineering Associaton, and International Association for Bridge and Structural Engineering. He has served on committees of the A.R.E.A. for over twenty years, but has now retired from committee work.

During his term as Grand Regent Brother Vawter made an extensive tour of the United States in which he visited thirteen chapters of the Fraternity.

We have at the helm a distinguished engineer with a long record of service both to the profession and the Fraternity. He has done a fine job of bringing Theta Tau through the last biennium of its first half century.

"Outstanding Delegate" Award Made Since 1941

"Deacon" Ames, then Grand Inner Guard, proposed to the Fifteenth Biennial Convention (1941) that it select one of its participants as the "outstanding delegate" of the Convention. The idea was presented by Barrett of Beta and quickly adopted. The delegate was to be chosen by secret ballot by his fellow delegates. The list of these convention leaders from 1941 is as follows:

Year	*Convention*	*City*	*Outstanding Delegate*
1941	15th	St. Louis	Max D. Crittenden, Epsilon
1946	16th	Louisville	William Sparks, Chi
1948	17th	Chicago	Don Blanchard, Gamma Beta
1950	18th	Kansas City	Thomas E. Mutchler, Gamma Beta
1952	19th	Lafayette	Peter Minderman, Sigma

Theta Tau Conventions

The coming biennial convention will be the twentieth of these meetings, since the first was not held until 1911 and the first and second World Wars interrupted the series. Before 1911 a number of informal meetings were held by delegates from Alpha, Beta, and Gamma chapters, but these had no power to legislate. The formal Conventions were held as follows:

First	1911 - Minneapolis, Minn.
Second	1913 - Houghton, Michigan
Third	1915 - Cleveland, Ohio
Fourth	1919 - Cleveland, Ohio
Fifth	1921 - Lawrence, Kansas
Sixth	1923 - Iowa City, Iowa
Seventh	1925 - Columbus, Ohio
Eighth	1927 - Chicago, Illinois
Ninth	1929 - Minneapolis, Minn.
Tenth	1931 - Fayetteville, Ark.
Eleventh	1933 - Chicago, Illinois
Twelfth	1935 - Kansas City, Mo.
Thirteenth	1937 - Chicago, Illinois
Fourteenth	1939 - Chicago, Illionis
Fifteenth	1941 - St. Louis, Mo.
Sixteenth	1946 - Louisville, Ky.
Seventeenth	1948 - Chicago, Illinois
Eighteenth	1950 - Kansas City, Mo.
Nineteenth	1952 - West Lafayette, Ind.
Twentieth	1954 - Minneapolis, Minnesota

GOLDEN ANNIVERSARY CONVENTION

The Grand Regent Says

In this, the Anniversary issue of *The Gear*, you have messages from our Founders and the Past Grand Regents of our Fraternity. It is due to these men, together with the others who have served as officers during the past fifty years, that Theta Tau has made its steady progress and attained the position it now holds. While none can match the fifty years of continuous service of Erich J. Schrader, they have all made their contribution, in many cases a notable one, and given unselfishly of their time. We owe them thanks. They constitute the Old Guard of Theta Tau. We also

When I became a member, our list owe thanks to the many brothers who have given generously of their time to serve as chapter advisers. In most cases their only reward has been the satisfaction of a job well done.
of chapters ended with Theta. I have seen the other chapters welcomed over the course of years. We can look forward with confidence for a continued healthy growth during the next fifty years. To attain this we must have the continued support of our membership. The Old Guard, on whom we rely for advice and labor, must reduce their efforts with added years, and so we must turn to our younger membership to carry on. With the excellent material we have available, and with each man making the effort of which he is capable, the next fifty years should be even better than the last.

To all I extend my greetings and best wishes for the years to come.

In H & T,
Jamison Vawter
Grand Regent

Nobody cares how you travel, the important thing is to be at Minneapolis.

Don't let anything stop you from coming to Minneapolis.

The Erich J. Shrader Award

The idea of an interchapter efficiency contest to stimulate good management and active participation in campus activities was first proposed at the Eleventh Biennial Convention in Chicago in 1933 by Richard Cope, the dynamic delegate from Upsilon Chapter. As is usual in such cases, Brother Cope was appointed chairman of a committee to bring in a plan for consideration at the next convention. During the next two years this committee evolved an elaborate outline of point awards for a long list of chapter activities and functions.

This report was turned over to the Publications Committee, of which Smith of Theta was chairman, at the Twelfth Biennial Convention at Kansas City in 1935 and this committee devoted 90 percent of its report to the matter of the contest. The report made several constructive criticisms, principal among which were the ideas of naming the contest after some prominent Theta Tau rather rather than calling it an "efficiency contest," and of adding rewards for "professional" activities on the part of the chapters.

At the Thirteenth Biennial Convention in Chicago, 1937, Grand Regent Hopkins implemented the contest by appointing a committee on Chapter awards with Edwards of Nu as chairman. This committee recommended that the interchapter competition start with the school year 1938-39 and that the following contests be for two-year periods. A form indicating the values awarded for various activities was provided by J. M. Daniels and revised by the Convention.

The Fourteenth Convention in Chicago in 1939 again revised the activity form. In fact, the committee on Chapter Awards, McPherson of Chi, chairman, submitted a two-page report and perpetrated eighteen pages of discussion as recorded in the Convention minutes. Important highlights of their report were their use of the name, Erich J. Schrader Trophy Award, the first designation of the award by that name; the recommendation that the Grand Inner Guard be official administrator; and specification that reports by the chapters be required each year, two to be counted for the biennial award.

The first award was made at the banquet of this Convention, Pi having a small margin of points over the next competitors. The award was a cup.

In the fifteenth Biennial Convention at St. Louis in 1941, the Committee on Awards, Lawrence Barrett (Beta) Chairman, made three specific recommendations for changes and four general recommendations as to ways of increasing the value of the contest to the chapters. The discussions were long and warm and resulted in many clarifications and improvements on such matters as: house chapters as compared with non-house chapters; financial condition evaluation; period for which report was to be made; and the nature of the award. It was decided that the latter should consist of a travelling bronze plaque, about 24x30 inches, to become permanent poseession of a three-time winner, and a small replica to be retained by the award winner each period. In his report to the Convention Grand Inner Guard Ames stated that competition returns from the chapters were not adaquate, fourteen having sub-

mitted reports for 1939-40 and only six of these for 1940-41. He mentioned that of the chapters qualifying with two annual reports Beta, Gamma, and Iota ranked uppermost. At the banquet Beta was given the award. A drawing of the proposed plaque was circulated for the delegates to see and report on to their chapters. A scroll carrying a likeness of Erich Schrader as a young man was prepared and presented to Beta Chapter in lieu of the plaque.

At the Sixteenth Biennial Convention at Louisville, in 1946, the Erich J. Schrader Award Committee, Edwards (Beta) Chairman, Markwood (Pi), and Mercer (Omicron), judged the chapter score sheets submitted for the year 1941-42 and declared Beta Chapter the winner, the second time Beta had won. Grand Inner Guard Mercer stated in his report to the Convention that, following his revamping of the procedure in accordance with the numerous helpful changes made by the Fifteenth Biennial Convention, the competition ending August, 1942 was so fine that he was most enthusiastic over the big's value of the contest.

Due to war conditions and the altered situation of a number of the chapters, the Executive Council in its Chicago meeting in May, 1943 regretfully suspended the contest for the duration of the war.

The Committee of the Seventeenth Biennial Convention at Chicago in 1948, consisting of Verner (Mu) Chairman, Fitch (Gamma), and Norman Ames (Gamma Beta) made history with the brevity of its report, the small number of changes recommended, and the making of two awards for the biennium, one for each year. For 1946-47 Mu was the winner and for 1947-48, Beta.

The Eighteenth Biennial Convention committee announced Upsilon as the winner, with score 3430 compared with 3411 for Phi and 3387 for Beta, a close contest.

Following this convention, an improvement in the handling of the contest details with the chapters was made by having a one-city committee. The Grand Regent appointed Brothers A. D. Hinckley (Theta), E. E. Ellis (Mu), and I. M. Lewis (Pi). Their efficient handling of the work and their two-year experience resulted in concrete suggestions for future contest forms, and the Convention adopted them. The 1950-52 award was won by Sigma, with Phi, Beta, and Upsilon following closely in that order.

The bronze scroll originally designed and approved had to be passed by because of wartime scarcity of materials. Subsequent work by Brother F. W. Edwards, Omicron, was reported by Brother Glass at the Eighteenth Biennial Convention. This recommended a travelling plaque three-quarters the size of the previously considered design and permanent possession plaques about the size of the shingle. Later investigation indicated that the cost of the plaques would be almost prohibitive. Accord-

You won't have to take this at Minneapolis

ingly, the final decision on the physical award has not been reached. Brother Hinckley has obtained scrolls similar to the one awarded Beta Chapter but with a more recent picture of Erich Schrader. These will be given at the Twentieth Biennial Convention to all winners since the establishment of the contest.

On the whole, the Erich J. Schrader Award Contest has been a productive enterprise and has served its purpose. It is true that every convention committee and nearly every operating committee has said that not enough chapters are participating. And it is certain that changes and improvements will continue to come. But the contest is well worthwhile and should continue, both as a means of helping the chapters to realize and institute self-improvement practices and as a reminder to us all of the devotion to our Fraternity and the example of our Number One founder, Erich J. Schrader.

You should be in the picture at Minneapolis.

Additions to Membership

DELTA

811 George Alfred Beck, Warren, Ohio
816 Robert James Kiber, Cleveland, Ohio
817 John Owen Fighter, Mansfield, Ohio
818 Richard Allan Goodall, New Middletown, Ohio
819 John Clark Guyeska, Grafton, Ohio
860 Earl Franklin Hawkins, Cambridge, Ohio
861 John Paul Hollis, East Cleveland, Ohio
862 James Gerald Klaus, Jr., New Springfield, Ohio
863 Donald Douglas Lanese, Cleveland Heights, Ohio
864 John Richard Layman, Cleveland, Ohio
865 Richard (NMN) Mazzatella, Cleveland, Ohio
866 William Howard Monnith, Jr., Cuyahoga Falls, Ohio
867 Edward Michael Petrushka, Cleveland, Ohio
868 Oliver Robert Rieley, Cleveland, Ohio
869 Charles Edward Sax, Cleveland, Ohio
870 James Joseph Schiller, Cleveland, Ohio
871 Charles Alan Schreiber, Wadsworth, Ohio
872 Richard Bolick Shadrake, Cleveland, Ohio
873 John H. (NMN) Shroyer, Jr., Dayton, Ohio
874 Stephen John Toth, Dayton, Ohio
875 Robert Karl Warmeling, Cleveland Heights, Ohio
876 David Everett Warrick, Columbiana, Ohio
877 James Godfrey Watterson, Shaker Heights, Ohio
878 Carl Delos Whisler, Mansfield, Ohio
879 John Penney Wright, Bedford, Ohio

ZETA

180 Paul Martin Pankratz, Chanute, Kansas
181 V. Ronnald Haught, Milwaukee, Wisconsin
182 Phil Delbert Platt, Coffeyville, Kansas
183 Lawrence William Taylor, Jr. Kansas City, Kansas
184 Donald Gene Finz, Coffeyville, Kansas
185 William Edward Franklin, Topeka, Kansas
186 Ivan LaVoral Henman, Augusta, Kansas
187 Benny Allen Anderson, Kansas City, Kansas
188 Robert Franklin Bruce, Mound City, Kansas

MU

614 Kurt Itzhak Altmann, New York, N.Y.
611 Crawford Arrington Battle, Uniontown, Alabama
616 Rex Gene Boykin, Sylacauga, Alabama
617 Hunter Mansfield Breland, Tuscaloosa, Alabama
618 Roy Richard Browder, Pueblo, Colo.
619 Kyle Stanley Drake, Jr., Opelika, Alabama
620 Guthrie Earl Farrar, Gadsden, Alabama
621 Raymond Matthew Hollub, Passaic, New Jersey
622 Francis Watters Jackson, Talladega Springs, Alabama
623 Wallace Earl Jordan, Grand Bay, Alabama
624 Fearn (NMN) LaRue, Mobile, Alabama
625 Jame Pierce Ledyard, Montgomery, Alabama
626 James Newell Maughn, Jr., Huntsville, Alabama
627 Billie Joe Nolan, Joplin, Missouri
628 Philip Morgan Phillips, University, Alabama
629 Leonard Harvie Sedlin, Mobile, Alabama
630 Donald Patrick Vallely, Fairfield, Alabama
631 Robert Samuel Wright, University, Alabama

SIGMA

418 Fred H. (NMN) Irons, Blanchester, Ohio
419 Eugene Robert Manson, Columbus, Ohio
420 Dale Edison Rawlings, Fairmont, W. Va.
421 Leslie LeRoy Robinson, Salem, Ohio
422 Robert William Schnabel, Bucyrus, Ohio
423 Kent Richard Shellene, Chicago, Illinois
424 Glenn Ray Smith, Bethesda, Ohio

UPSILON

428 Thomas Lynn Branigan, Fayetteville, Arkansas
429 Robert Harry Percy Jenkins, Fayetteville, Arkansas
430 Charles Robert McCreary, Crawfordsville, Arkansas
431 William Samuel Stewart, Helena, Arkansas

OMEGA

441 Charles Leslie Tollinger, Rapid City, S. D.

This poor fish won't be at Minneapolis

GAMMA BETA

310 Joseph Edison Bell, Alexandria, Va.
311 Thomas Harlan Birmingham, Washington, D. C.
312 Harry Marum Brandler, Washington, D. C.
313 Matthew Francis Foster, Washington, D. C.
314 Leon H. King, Washington, D. C.
315 Samuel Allen Mawhood, Arlington, Va.
316 James Pascal Richardson, Arlington, Va.
317 Paul Andrew Robey, Jr., Arlington, Va.
318 Darrill Conway Rohlfs, Washington, D. C.
319 Alan Hunter Yorkdale, Washington, D. C.

Rain or shine there'll be big doings at Minneapolis.

The GEAR *of* THETA TAU

OFFICIAL PUBLICATION OF THE FRATERNITY

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

210 ENGINEERING HALL IOWA CITY, IOWA

Subscription $1.00 a Year *Life Subscription $15.00*

VOLUME XLIV FALL, 1914 NUMBER 1

THE GEAR IS 46 YEARS OLD

When Theta Tau had but three chapters, the desirability of having a publication was realized and in 1908 the publication of "Hammer and Tongs" was begun by H. H. Hopkins, then a member of Beta Chapter. "Hop" graduated that year but members of Beta Chapter managed to get out an issue a year through 1912. The magazine was renamed "The Gear" in 1909. Its size was smaller than it now is, the early issues being 5½" x 7½".

The sixth issue of the young magazine was edited by Jack E. Haynes, Alpha '08, who carried on through 1913 and 1914. In those days it was customary to print a directory of the entire fraternity in the back of the magazine. *The Gear* was sold on a subscription basis of $1.00 per year and was in good financial condition. In fact, it was decided in 1912 to try to bring out more than one issue per year.

In 1915 Henry Matchett, Alpha '15, took over the editorship, but relinquished it the next year to Otto C. Budde, Delta '12. Brother Budde published the magazine until 1920, except for the years of 1918 and 1919 during which all chapters were inactive. In 1920 he turned it over to Hoy Stevens '22, and H. P. Churchill '15, of Delta Chapter. In Budde's regime the subscription rate was $1.25 per year and an annual issue with a directory in the back was the regular thing. The magazine in 1920 was thick—284 pages with additional pages of advertising. It was still the orginal size. Brother Stevens broke the 1921 issue into a magazine and a directory of the same size.

In 1922, Frank E. Mooney, Alpha '23, and Albert W. Morse, Alpha '23, took over with Brother Morse succeeding as editor in 1923. At this time *The Gear* was increased to its present page size and an ambitious schedule of quarterly issues was begun. Publication in the summer proved difficult, however, so three issues per year were printed until 1926 when Donald D. Curtis took over the editorship.

Brother Curtis, Omicron Honorary, found that editing *The Gear* in addition to his full-time job as professor of mechanics made it possible to put out but two issues per year

and for three and a half years he published regularly on that schedule.

Brother Curtis left Iowa in the fall of 1929 but before leaving obtained a promise from his successor, J. W. Howe, to carry on the editorship. This individual, knowing nothing about such matters, consented, providing his friend, Paul Mercer of Keokuk who came from a family of printers, would share the responsibility. Paul agreed and for the next twenty-five years this partnership continued to function. The appearance of *The Gear* was changed in 1934 when the identical somber red covers were dropped in favor of a variety of more interesting covers and the policy of adhering to fraternity news rather than publishing technical articles was adopted. It was obviously impossible to get an article which would interest any large proportion of a membership composed of engineers in management, sales, design, exploration, and construction in any of the fields of civil, mechanical, chemical, mining, electrical, industrial, agricultural, aeronautical, sanitary engineering, or geology.

The life subscription was adopted at the 1929 convention. This plan provided for sending the magazine to all alumni initiated after 1930, and has had a tremendous effect upon the subscription list. Because many alumni forget to send in addresses, the endowment fund established in 1930 has grown much larger than was anticipated when the plan was adopted and is still gradually enlarging, despite the great increase in costs experienced in the present inflationary period.

It is planned to have a file of *Gears* on display at the Convention. Unfortunately, many issues are missing because of the frequent change of management in the early years—and, we blush to admit, one issue, that of Fall 1943, is not in our file of recent years. Needless to say, anyone who can supply missing copies can do the fraternity a real service by donating them to the permanent file of *Gear* issues.

JWH

LIGHT'S DIAMOND JUBILEE

Just twenty-five years older than Theta Tau is Thomas Alva Edison's incandescent electric lamp. As engineers it is appropriate that we join the electrical industry in celebrating this birthday too as a most important milestone in our profession.

It was on October 21, 1879 that Mr. Edison announced the first practical incandescent electric lamp. The success of this new lighting medium and its accompanying central station developments led to extremely rapid growth of the whole electrical power industry. Generation, transmission, distribution, motor applications, household appliances, to name a few of the many facets of the electrical industry all became possible and important because the electric lamp lighted the way.

So on behalf of those of us who are especially affiliated with this great industry which claims so many engineers, we pause briefly in our own Golden Anniversary Celebration to extend our congratulations and good wishes to Light's Diamond Jubilee. Under the banner "Light for Freedom—Power for Progress" the industry will surely continue to lead the way to a better and more comfortable tomorrow for all of us.

PLM

Letters To the Editors

60 E. 12 St., Apt. 101
Chicago 16, Illinois

Gentlemen:

I enclose a form indicating my change of mailing address, clipped from the Spring 1953 issue of *The Gear*.

Previously, I had received the magazine through Delta Chapter when I was a member in undergraduate school at Case Institute of Technology.

I am listed as a life subscriber, and would like to continue receiving *The Gear* as an alumnus. You will find my mailing address, together with an address from which mail can always be forwarded to me, on the enclosed form.

Thank you very much for your immediate consideration.

Yours in H & T,
Thomas A. Zaker
Delta '51

We are not only putting you on the mailing list, Brother Zaker; we are even sending this issue out in October instead of December!

---

400 Cochran Road
Pittsburgh 28, Pa.

Dear Sirs:

Please note the change of address.

This is the first letter that I have ever written to the editors of *The Gear*. I surely enjoy receiving *The Gear* and reading it. It is a grand book. I may get out to the Golden Anniversary of Theta Tau in October.

Yours in H & T,
Samuel J. Hyle
Nu '33

The new address will keep *The Gear* coming your way, Brother Hyle. Glad you enjoy reading it. See you in Minneapolis.

Westinghouse Electric Corp.
Lima, Ohio

Dear Brother Howe:

This is to advise you of my new address for mailing *The Gear* as above.

Since leaving Tucson, June, 1952, I have not been able to get in touch with any other brothers personally until recently. Here at the Lima Works I have met Chester Johnson of Delta Beta and George Miller of Iota. Chester is working as a Manufacturing Engineer and has been here since February 1, 1954. George is now a Material and Methods Engineer.

I might call myself the "black sheep" because I have been working as an Assistant Foreman in the Aircraft Control Section for the past seventeen months. Along with this assignment I have also been working on a "Methods Development" program for the Control Section. This has been quite a challenge to all of us in the Manufacturing Department, but a very interesting project.

In closing, I would like to know if any other members of Theta Tau are in this area that you know of. George, Chester and myself are planning a Founders' Day dinner and we would like to know any others who may wish to attend.

Yours in H & T,
R. W. Whitson
Chi '52

We find no other alumni in our active files, Brother Whitson. You have discovered those whom we know of. If you want a bigger Founder's Day meeting, come to Minneapolis!

Pointe-A-Pierre
Trinidad, B. W. I.

Dear Sirs:

I have just received the most recent issue of *The Gear* and am writing to inform you of a change in my address from Havana to Trinidad.

If I miss an issue of *The Gear* I feel neglected, as I do look forward to receiving it, so I will appreciate your noting the above change on your mailing list.

Yours in H & T,
(A.) Max Jones
Chi '43

After such kind words, how can we refuse you anything, Brother Jones?

PO Box 240
Kitimat, B. C.

Dear Brothers:

I just received my *Gear* for the Fall of '53 and this brings to mind the fact that I haven't kept you up to date in my movements.

I now live in Kitimat, B.C. where I am employed as Carbon Plant Supt. by the Aluminum Company of Canada, for whom I have worked for the last twelve or thirteen years. You should have heard of the place,

judging by all the publicity it has had in the U.S.! We are now finishing up the electrodes and pot linings to start the plant next month. To the best of my knowledge these pots, or cells, are as large as any in the world, being designed for a current input of more than 100,000 amperes each. Other points of interest are the fishing—very good!; sailing—not bad; and the hunting which is good. We also have some pine timber up here.

I'll close now, wishing you the best for 1954.

Yours in H & T,
Matt Gooding
Psi '40

You make our mouth water, Brother Gooding. We have just had two weeks of temperature in the high nineties.

Amembassy
APO 301, c/o PM,
San Francisco, Calif.

Dear Sirs:

Again, I am changing my address, as indicated above. This time, I am leaving the US on or about 20 July, 1954 for a two-year tour in South Korea, as Economic Officer, Assistant Attache at the Embassy. Though I have been waiting for this for a few months, I had hoped that the appointment would not be made until after the coming convention, which I wanted very much to attend. However, when you want things to go slowly, they usually happen with what seems to be extra speed, and so it is now, with me. Some of the "revivers" of Xi Chapter will be at the convention to carry on, I feel sure. (We didn't found the chapter, but we did revive it after the war, as you remember).

Are there any other Theta Taus in South Korea now? (probably in the military forces there)—if so, what are their addresses? As I will be quite mobile in my new assignment, I will try to contact as many as I can, and maybe we can have our own celebration in Seoul on Founders' Day. (A Seoul Alumni Chapter—that would really be something!) I am looking forward to your special Anniversary Issue of the Gear with much interest.

In H & T,
William A. Hambley, Jr.
Xi '52

All of our mail to those in foreign military service goes to an APO or FPO address, so we have no way of knowing just where such personnel are actually located. Hence we are unable to give that Seoul Alumni Club a boost. If you get it done, anyway, be sure to send us a picture and a write-up, Brother Hambley. Power to you!

Golden Anniversary Convention, October 11-14 at Minneapolis!

P. I. C. Adopts Resolution on Membership

AUTONOMY RESOLUTION

WHEREAS professional fraternities are an integral part of the national fraternity system, and professional fraternities as such have furthered the standing of the respective professions which they represent in the professional schools and the professions at large; and

WHEREAS it is desirable and necessary that the work of such fraternities be continued as in the past; and

WHEREAS such continuity depends primarily upon the character of membership of the respective fraternities wherein their members are united under the bonds of brotherly love and affection; and

WHEREAS anything which tends to abolish the fraternity ideal destoys the purpose of professional fraternities and is repugnant to the right of selection inherent in the American way of life as guaranteed by the Constitution of the United States and the Bill of Rights:

Be It Resolved:

1. That the Professional Interfraternity Conference advocates that each member fraternity continue to have the privilege to adopt membership qualifications applicable to all its chapters free from interference or restriction by any non-member individual, group or organization.

2. That restrictions or regulations affecting the privilege and right of any fraternity to choose its own members from among persons of good moral character and scholastic standing in any school, college or university in which it has a chapter is an unwarranted and illegal interference with the fundamental principle of free association.

3. That in accordance with such principles the Professional Interfraternity Conference advocates fraternity autonomy with respect to fraternity membership.

The Committee further recommends that the resolution be referred to the Publicity Committee for appropriate action.

Two Epsilon Beta Alumni Change Names

Grand Scribe Erich Schrader has sent an official notice that two brothers from Epsilon Beta Chapter have legally changed their names. The former Peter Samuel Davidovich, '31, is now Peter Samuel Davis; and Carl Eugene Olesko, '31, has changed his name to Carl Eugene Oleksiak.

Sure hope I'm not late to the Golden Anniversary Convention at Minneapolis!

In Memoriam

Arthur Francis Benson, Eta '17, died at his home in Erie, Pa. on November 10, 1953. He graduated from M.I.T. as a mechanical engineer. After war service he went to Seattle and for some years was connected with the Vulcan Mfg. Co. there and then with the Atlas Gas Engine Company. He returned east in 1933 and was employed by the American Meter Co. in Philadelphia, Pa. until 1941 when he was transferred to the Erie office.

Charles Alan Brantingham, Eta '23, died suddenly on March 21, 1954. After graduating from M.I.T. he founded the Emerson-Brantingham Co. in Rockford, Ill., and then founded the Ehaley Foundries there also. From 1933 to 1940 he was president of the Thompson-Lichtner Co. of Chicago and then joined the engineering staff of General Mills, Inc. in Minneapolis, Minn. until 1499 when he was transferred to Bloomington, Ill. A few years later he moved to Newburyport, Mass. and established himself as a manufacturer's agent.

Fred Abbott Cutler, Jr., Alpha ex '17, died suddenly in Boston on May 12, 1944. He was born in 1891 in Minneapolis, Minn., and after completing high school he entered the School of Mines of the University of Minnesota. Due to the sudden death of his father, he had to leave college and go to work before he graduated. He was employed as a salesman by various firms in Minneapolis and for a time operated a book store on University Ave. SE, near the campus. For the last thirty years of his life he was a machinery salesman and after 1930 was the New England representative of Johnson Motors of Waukegan, Illinois.

John Kenneth Dumbauld, Sigma '12, age 48, died of a heart attack on March 30, 1954. He was born on May 6, 1906, at Dennison, Ohio. He graduated from Ohio State University as a civil engineer in 1932 and received his CE in 1948. With the exception of a short period, he was an engineer for the Ohio State Highway Department in Columbus, Ohio. He was an enthusiastic Theta Tau, helped install Epsilon Beta, was twice President of the Central Ohio Alumni Association and was its secretary at the time of his death. He will be missed by Sigma chapter for which he had done so much.

Milo Pilcher Fox, Alpha ex '10, Col. Engineer Corps, U. S. Army, died at Galveston, Texas, on July 21, 1911. He was born in Mankato, Minn. in 1890, and studied civil engineering at the University of Minnesota until he was appointed to West Point in 1909. He graduated from there in 1913, one of the "ranking five" in the senior class. After getting his rank of second lieutenant he was sent to Ft. Leavenworth, Kansas, and remained there until the start of World War I, when he joined the A.E.F. and had the rank of Lt. Col. when he returned home. Later he was chief district engineer at Wilmington, N. C.; Huntington, West Virginia; Portland, Oregon; and Secretary of the Mississippi River Commission, until he was sent to Galveston, Texas, in 1948.

Vivian Gregor Kaufman, Kappa '34, died on March 14, 1954. He was born on October 20, 1898 in LeRoy, Illinois, and received a B.S. in civil engineering at the University of Illinois in 1934. For a short time after graduation he worked in Champaign, Illinois, and then joined the staff of the U.S. Engineers. At the time of his death he was engineer in the office of the President of the Mississippi River Commission in Vicksburg, Miss.

Clark Hossack McNaughton, Beta '19, died in a Chattanooga, Tenn. hospital on February 19, 1914. He was born in Argyle, Michigan, on January 13, 1899. He went to Houghton in October 1916 to attend the Michigan College of Mines and during the period of World War I was a soldier in the S.A.T.C. He graduated as a mining engineer with honors in 1919 and was a member of Tau Beta Pi. Shortly after graduation he went to work for the Tenn. Copper Co., and at the time of his death was Production Manager at Copperhill, Tenn.

Otto Henry Metzger, Gamma '19, age 60, died in Salt Lake City, Utah, on May 17, 1934. He was born in Meeker, Colorado, on February 4, 1894, and graduated as a mining engineer from the Colorado School of Mines in 1919. After graduation he went to Cuba in the employ of Minas de Matahambre until 1923 when he returned to Colorado to be chief engineer for the Sunnyside Mines in Eureka. In 1928 he joined the U.S. Bureau of Mines as a mining engineer, and was employed in various places in the West until 1941 when he joined the staff of the Union Mines Development Co., examining uranium deposits. A few years ago he became valuation mining engineer for the U. S. Bureau of Land Management in Salt Lake City.

Hugh M. Robinson, Kappa '23, died in Chicago on January 13, 1914. He was born in Chicago on November 1, 1900, and graduated as a mechanical engineer from the University of Illinois in 1921. He was employed by various companies in Chicago, finally joining the staff of the Underwriters

Laboratory, 207 East Ohio, Chicago, as a mechanical engineer.

Charles Knapp Rounds, Alpha '19, died suddenly in Antioch, California, on November 13, 1941. He was born in Minneapolis, Minnesota, on May 20, 1890. He spent much of his youth in California but returned to Minneapolis in 1914 and enrolled at the University of Minnesota as an electrical engineer. In 1917 he joined the army and was Sgt. Co. F, 313th Engineers A.E.F. He returned to college in 1919 and left in 1920 to enter the employ of the General Electric Co. He was employed by several companies and in 1942 he returned to California where he was self employed as an electrical contractor, working on some of the important jobs in the Bay region.

Chauncey Lorenzo Sharpe, Gamma ex '36, age 41, died of polio on August 13, 1943, five days after being stricken. He was born in Topeka, Kansas, on May 27, 1913, and initiated by Gamma Chapter on December 4, 1934. In the spring of 1935 he ran short of funds and left the Colorado School of Mines, going to Nevada where he worked in tungsten mines until the fall of 1936 when he enrolled at the University of Nevada. He received his E.M. in Mining Engineering in June 1937. For a short time he operated a small gold mine near Las Vegas and then held positions in several companies until 1941 when he joined the operating staff of the U. S. Gypsum Co., at Sweetwater, Texas, then at Ft. Dodge, Iowa, and then two years at the main office in Chicago as assistant to the Production Manager. In 1946 he was sent to Guelph, Ontario, to be production manager or works manager for the Canadian Gypsum Co., Ltd. He was a fine and loyal Theta Tau with a brilliant future in the profession.

Fred Will Sheffield, Alpha '09, died in Seattle, Wash., on May 23, 1918. He was born and raised in Crookston, Minn., and graduated as a Civil Engineer from the University of Minnesota in 1908. After graduation he was employed by several railroad companies on the Iron Ranges and at International Falls, Minn., and in 1912 went to work for the Security Bridge Co. in Minneapolis. Later he lived in Fargo, N.D., and served as City Commissioner of Fargo for eight years. Thereafter he moved to Seattle and at the time of his death was Engineer-Estimator for Drake Puget Sound, one of the largest contracting firms in the Pacific Northwest.

Robert Adams Stickney, Alpha ex '18, died on May 2, 1942 at his home at White Bear Lake, Minnesota. He was born in St. Paul, Minn. on Sept 17, 1891 and after completing high school enrolled at the School of Mines, University of Minnesota. He left in 1917 and went to work for the Buick Motor Co. in Flint, Michigan. He then joined a railway supply company. From 1924 until his death in 1942 he was Fuel Supervisor for the Great Northern Railway Co. in St. Paul.

Carl Dierking Theobald, Theta '26, died of a heart attack on December 24, 1933. He was born in New York City on November 25, 1902, and graduated as a mechanical engineer from Columbia University in 1926. For some years he was employed by various firms in New York and in 1944 joined the staff as engineer in the Architecture Department of the College of the City of New York.

James Underhill, Hon. Gamma, died in Wheatridge, Colo. on April 22, 1934. He was born in New York City on April 9, 1871. After receiving an A.B. in geology from Harvard in 1894 he went west and in 1901 received his M.S. from the University of Colorado and his Ph.D. there in 1906. He left the State of Colorado Geological Survey in 1919 to become a member of the faculty at the Colorado School of Mines, remaining there until his retirement in 1946. He was a member of Tau Beta Pi and Sigma Xi.

William Orange Vandenburg, Beta '23, died on April 16, 1934, in the Naval Hospital at Bethesda, Md. where he had been ill with nephritis for several months. He was born in Muskegon, Mich., on January 18, 1898, and after attending Grand Rapids Jr. College, entered the Michigan College of Mines in 1916. From 1917 to 1919 he was Pvt. First Class, Evacuation Hospital, AEF, and then returned to college, graduating as a mining engineer in 1923. After graduation he worked for a time for several mining companies, until 1928 when he joined the staff of the U. S. Bureau of Mines in Reno, Nevada, serving as Mining Engineer until 1941. During this time in Reno he wrote a number of circulars for the Bureau covering the mining and mineral deposits of five Nevada counties, and wrote a book on Placer Mining in Nevada which was published by the State Bureau of Mines. In 1941 he went to Lima, Peru, and became Mineral Attache for the American Embassy. From 1941 to 1931 he was attached to the embassy in Pretoria, South Africa, and then was sent to Paris to make a survey of strategic materials in western Europe and North Africa. In 1932 he was attached to the Embassy in London as Chief Mining Engineer. He was a credit to his profession and the Fraternity and a devoted servant to his country.

The Growth of Theta Tau===

Chapter Histories

The Beginning of Theta Tau and Alpha Chapter

It was in the fall of 1904 and the beginning of another school year at the University of Minnesota, but for one student on that campus it was the beginning of a life's work. The student was Erich J. Schrader, a senior in Mining Engineering, and for some time he had had the dream that there be a professional fraternity for Engineers similar to those that already existed in the fields of Medicine, Law, and Dentistry. He would sit and talk at some length about this with his roommate, Elwin L. Vinal, who was a sophomore in Mining Engineering. Thus on October 15, 1904, these two engineering students met in their room with Isaac B. Hanks and William Murray Lewis, who were also sophomores in the School of Mines, and together the four men founded the Society of Hammer and Tongs. Little did any of them dream at that time, the proportions to which this small society was destined to grow.

This group did not meet again in a formal meeting until November 22, at which time they initiated their first new member, who was E. Ralph Edgerton, also a sophomore in the School of Mines. After this initiation, the remainder of the meeting was spent in revising and amending the original constitution. In fact, the next few meetings dealt principally with additions to the constitution, the ritual, and laying the basic foundation of the Society. Erich Schrader

Earliest recorded group picture of Hammer & Tongs, they are from left to right, Front Row: Isaac B. Hanks, E. Ralph Edgerton, Erich J. Schrader, Randolph J. McRae, and Walter H. Wheeler. Back Row: Clinton B. Smith, George F. Weisel, and James Cowin.

presided over these meetings and was called the Regent, while Isaac Hanks recorded the proceedings and was called the Scribe. It wasn't until December 17, that the Society initiated another member, George F. Weisel, again a sophomore Mining Engineer. March 6, 1905, marked the entrance of the next initiate, Clinton B. Smith, a senior in Electrical Engineering, and he was followed by Randolph J. McRae, James Cowin, and Walter H. Wheeler who became the tenth member of the Society on April 16, 1905, and the last initiate during its first year.

The first mass initiation was held on October 18, 1905, in recognition of the Society's first anniversary, when four new members were initiated. Many of these early meetings were held in Ike Hanks' home or in a rented second story room over a bookstore just north of the main Minnesota campus. On November 16, 1905, Isaac Hanks was elected the new Regent of the Society, and although it was publicly represented by the Greek letters Theta Tau, it was still officially called, the Society of Hammer and Tongs of the University of Minnesota.

It was on March 26, 1906, at the home of Regent Hanks that the initiation of Robert Downing and W. B. Andrews took place. This initiation was unique in that Downing and Andrews were not Minnesota men, but were from Michigan College of Mining and Technology in Houghton, Michigan. In fact, they belonged to another society there called the Rhombohedron Club, and the purpose of this initiation was to give these two men the authority to go back to Michigan Tech and initiate all of the members of the Rhombohedron Club into what would then become Beta Chapter of Hammer and Tongs. By May 14, 1906, a badge had been decided on, and for the first time it was voted to have an initiation fee of $10.00, of which $4.00 would pay for the badge and $6.00 would go into the chapter treasury, and thus the office of treasurer was created.

Pledge Button

Coat of Arms

During the early years the Pledge button was designed by the late Wm. A. Rose, Alpha '06, and the Coat of arms by Arthur Larkin, Alpha '08, and the present badge was designed by E. H. Snyder, Beta '12. The enlarged Ritual was first read at a meeting of the Southwestern Alumni Association in Globe, Arizona, in 1909, and approved by all members present to be presented to the coming Convention.

At the end of his sophomore year, (accompanied by Elwin L. Vinal) William Murray Lewis had transferred to the Colorado School of Mines at Golden, Colorado, and his active participation in Hammer and Tongs seemed to be curtailed at least temporarily. It was at Colorado Mines that he came across a group of engineers called the Square Set Club, and on May, 31, 1907, the petition of the

Square Set Club was accepted and this became Gamma Chapter of Hammer and Tongs.

On February 23, 24, and 25, 1911, the first convention was held at the old Y.M.C.A. on the Minnesota campus, and all three chapters met in Minneapolis for the first time. It was during this first convention that it was decided to change the name from Society of Hammer and Tongs to Theta Tau Fraternity, whose Greek letters Theta Tau had been used publicly since 1903. Also during this convention the first slate of national officers was elected, with Erich Schrader being the Grand Regent. It was at this convention that Brother Schrader presented the ritual which he had spent considerable time revising.

In the fall of 1911, Alpha Chapter of Theta Tau took the first step toward having a chapter house by renting several rooms of a house for $25.00 a month. Erich Schrader, then living temporarily in St. Paul, was still very active, and in reality the guiding hand of the Fraternity. It was truly a Fraternity now and no longer a small society, for as the months passed by new chapters were being added, and names such as Delta, Epsilon, and Zeta chapters were being discussed at Alpha's meetings. By 1914, the active members and interested alumni members could see the necessity of the chapter having its own house, and it was decided to sign house notes of $50.00 each, or as much as a person could afford, strictly on a voluntary basis.

Earliest meeting place of Hammer and Tongs, a rented room above what was then Wilson's Bookstore. This picture taken in 1912.

The Andrews Hotel in downtown Minneapolis was the site of the first Founders' Day celebration of Alpha Chapter, held on October 15, 1914 to commemorate the tenth aniversary of the founding of the Fraternity. At that time it was resolved that such a gathering should be an anual event of all chapters, not only noting the founding date of the Fraternity, but also the installation date of each respective chapter.

To operate a chapter of a college fraternity in normal times is one thing, but Alpha Chapter soon found out in 1917 how world conditions and a war can show their effect in disrupting these well laid plans. Since everyone was in jeopardy of being called into military service soon, the regent was empowered to appoint a committee of three to have complete charge of the chapter offices until things became more settled. The house that Alpha Chapter was renting at that time was retained through the summer of 1917, but when the fall term started and only four or five men returned, they decided to give up their house and rent a few rooms

in a social fraternity house. However, smaller quarters were soon found and the nucleus of the chapter moved to a house of their own at 1023 University Avenue SE.

When normal times returned and membership once again began to flourish, thoughts were again turned to the possibility of the chapter owning its own house. Something concrete was done in the summer of 1922 when members of the Twin City Alumni Association under the leadership of Benjamin Walling '09, James Colvin '14, and others, created the Theta Tau Association which would serve as the owner of the chapter house. They proposed that all future members sign a fifty dollar building note to be paid within five years after graduation. Up until then this had only been done on a voluntary basis. This money would be held by the Association until such time as they were financially able to purchase a house.

These "Roaring Twenties" meant good years for Alpha Chapter, and in the fall of 1927 the chapter had moved to a large house on Washington Avenue and Walnut Street. This house had 14 men living in it regularly, with a capacity of over 20; there were from 20 to 25 eating regular meals there, and it was much closer to the engineering part of the campus. Alpha Chapter indeed seemed to be on its way and getting stronger. Its spirits weren't even dampened by the flash fire that broke out at the house and interrupted its regular meeting on March 5, 1930, but the fire department quickly put out the blaze with little damage being done.

Finally in the fall of 1931, Alpha Chapter moved into its own home at 324 Walnut Street SE, just a block south of its previous location. The house was 15 years old at the time and not particularly suited for a fraternity house, but it was purchased with an eye to the future. The house was situated on a large corner lot in a desirable location, and it was hoped that a new house might some day be built on this same site. A big factor in Alpha's being able to buy a house at this time was the money and securities that were bequeathed the chapter by Tom Andrews '26, upon his untimely death January 31, 1929 in Rhodesia, South Africa. About the time that the new house was purchased there was also the formation of a Mothers and Wives Club of Alpha members, and the very first task was helping the boys with furnishings for their new house.

Once again the unforseen retarded Alpha's growth, this time in the form of the Depression. School enrollment dropped and so did the membership. It wasn't unusual to see many alums living at the house upon leaving school. A typical sign of the times was the meeting of October 18, 1937, when they voted to raise the price of breakfast from 10c to 15c. The depression gave way to the war years once again, and things went from bad

All aboard for Minneapolis!

Boy! Will there be a big time in Minneapolis.

Founders' Day Banquet October 15, 1946—publicly burning the mortgage of Alpha's first house at 324 Walnut Street SE.

to worse. It had been hoped that the Army might take over the house as a dormitory, and later because of low membership and consequent loss of income they explored the possibility of renting the house to an outside organization. This was evidently true of all chapters, since the Executive Council had directed that it would be permissible to initiate men under 18 years of age, and in the event of a shortage of actives, honoraries could now hold office.

By the fall of 1943, there was an influx of Navy students, and many new members came from their ranks. This was an abnormal situation, for special concessions had to be made in regard to scheduling of meetings, initiations, etc., according to when they were permitted time off. None of these men lived in the house, and of course, the serving of meals in the house had been adandoned several years previously. All through these trying war years, Fred Teske '27, then serving on the University staff, was instrumental in holding the chapter together, serving in the dual capacity as chapter adviser and treasurer.

Things looked up again after the war, and on October 15, 1946, the mortgage of the house was publicly burned at the Founders' Day Banquet. This was the result of a concentrated drive to retire many of the

PROPOSED NEW HOUSE
FOR ALPHA CHAPTER OF THETA TAU
AT THE UNIVERSITY OF MINNESOTA

First Picture of Beta Chapter — Top row: Byron O. Pickard, Jack Peacock, Wm. Perkins, Alfred Menche, Bill Sweeney, Fred Varney, Geo. Marshall, Jimmy Barr
Second row: Al Steinbach, Carl Kingston, George Anderson, Bob Downing, Albert Hasselbring, Jimmy Thoms, Charley Kumke, "Bay" Staples, Bob McKillikan
Bottom row: Roy Earling, Jim Torbert, "Dutch" Andrews, Jonne Woevig

through 1912. It published the first directory of Theta Tau members and was the first chapter to issue a regular bulletin. It was the first chapter to have a regular house committee, the first to establish a fund and a stock company for the purpose of a chapter house, and the first to own its own house. The official Theta Tau song was written by Don C. Blackmar, Beta '11, and the present official pin was designed by E. H. Snider, Beta '12. Beta was host to the second annual convention in 1913.

With the brief history given so far, rather large steps through the succeeding years will cover the highlights up to the present day.

On March 28, 1931, Beta Chapter assembled to commemorate its twenty-fifth anniversary. The guest of honor was H. H. Hopkins of Chicago, who represented the Executive Council. His talk conveyed the greeting and message of the national officers. Prof. Fisher also gave a very inspiring speech, mainly a resumé of the chapter from its beginnings. Among the other alumni present were C. J. Sheldon, R. W. Drier, Carl Knaebel, P. Paquette, Wm. Longacre, H. Hawn, and L. Tunne.

With the advent of the second World War, Beta Chapter suspended its activities on June 1, 1943, not to be opened again until May 6, 1945. On May 6, 1945, a special meeting of the active members of Theta Tau on the M.C.M.&T. campus was called. Present were B. J. Ellerthorpe, R. Atkins, and B. Beckner. The subject discussed was the reorganization of the H & T's and the reopening of the chapter house. Brother Duggan, Beta Chapter's adviser, was consulted, and through his efforts the first regular meeting was held on July 9, 1945. The membership being so limited, it was decided that only the posts of regent and scribe could be filled. The months that followed were filled with much toil for the men of Beta Chapter in the reorganization.

Since that time the chapter has once again, just as in the past, become a

leader in campus activities. Beta members of Theta Tau have been active in every prominent organization on campus, holding more than their share of offices in these organizations. Awards, symbolized by various trophies which are displayed on the old fireplace mantle, stand in mute testimony of the unselfish efforts of the members. This year Beta again won the annual winter carnival for the third consequtive time by compiling the most points, and in so doing won the much-coveted winter carnival trophy, which is now in Beta's permanent possession.

Beta is proud to have many of its alumni close by, with the following serving on the faculty of M.C.M.&T.: Dr. R. W. Drier, Dr. C. T. Eddy, J. M. Harrington, W. B. Gertz, H. Hawn, W. A. Longacre, C. M. Harry, and T. H. Barrett.

The passing years have left Beta a rich heritage, with a tradition in which all of its members can justly take pride.

Founder Murray Lewis Established Gamma Chapter

In the fall of 1907 a small group of students at the Colorado School of Mines organized the Square Set Club for the purpose of petitioning the Society of Hammer & Tongs for a charter. The late C. M. Hurlburt was the leader of this group. The charter members were Paul Neer, F. F. Frick, J. B. Lowell, W. V. DeCamp and L. P. Clapp. Since Wm. Murray Lewis, one of the Founders of Theta Tau, was then attending the Colorado School of Mines, he was authorized by Alpha and Beta Chapters to install the new

"Colorado Mines Peak" conquered by Theta Taus Harr and Miller

group and later be affiliated with the new Gamma Chapter.

The new chapter rented a small house near the campus for meeting purposes. F. F. Frick was the first Regent and J. B. Lowell the first Scribe. Gamma was without a rival until 1924 when a chapter of Sigma Gamma Epsilon, a professional fraternity in the mineral industry field, was established at Golden.

Although third in age, Gamma is second in size, having initiateed 815 members since its founding. During its forty-seven years on the Mines campus, Gamma Chapter has played a prominent role in student activities. Perhaps the most unusual of these is its recent feat of securing official approval for the naming of a previously unnamed mountain crest, "Colorado Mines Peak." This project represented the work of Regent Neal J. Harr, under the guidance of Gamma's adviser, Dr. L. W. LeRoy, who had first suggested the naming of a peak for the School of Mines. The members of Gamma Chapter can take pride in this achievement as evidence of the active traditions of Theta Tau on the Colorado Mines campus. Gamma has had a long and successful life, and a large percentage of the most prominent alumni of Colorado Mines are members of Gamma Chapter of Theta Tau.

Delta Kept Professional Standards High

Delta Chapter was the outgrowth of a local mining society, Mu Sigma, which had been founded in 1909. In December of 1909, delegates from Mu Sigma and others met in Minneapolis to form a national mining fraternity called Sigma Kappa Alpha; but by 1911, Case was the only remaining chapter of that society. The chapter petitioned Theta Tau and was granted its charter on May 25, 1911.

About 1915 Delta decided not to initiate members of social fraternities having chapters at Case, and was thus considered a social fraternity on the campus; the new chapter soon was maintaining a house and competing with the others for members and in intramurals. This situation was not to be tolerated long, however, and early in 1923 a reorganization occurred. At the request of Dr. George D. Louderback, who was Grand Regent at that time, the men who wanted to continue as a social fraternity were suspended until graduation.

"Count" Frank Robertson Van Horn

The handful of remaining actives, deprived of their house by the new

local Tau Delta Tau, elected new members from the upperclass levels. In harmony with the national policy of Theta Tau, the men were chosen on the basis of character, personality, and engineering promise, without regard to social fraternity affiliations. Professor "Count" Van Horn, Delta honorary, an ardent supporter of campus activities, was appointed faculty adviser and helped immensely in this troubled time.

In the succeeding years, the organization of Delta Chapter has changed little. A few sophomores are now elected to secure greater continuity in chapter activities. Projects have been many and varied. Banquets and meetings of professional interest have been held regularly; and Delta has contributed in many areas to the school as a whole.

For example, in 1938 Delta revived an old Case tradition, the all-school dinner. Its purpose was to arouse spirit prior to the Thanksgiving Day game between Western Reserve University and Case. During the war years a share-the-ride program was inaugurated, and the brothers sold war savings stamps to the students. The ever-knotty problem of parking on the campus was Delta's responsibility for several years. Currently the chapter cooperates with the Institute in furnishing guides for prospective students who visit the campus.

In 1934 Count Van Horn died, and the following year an annual award was established in his memory. The award is given to an outstanding member of each graduating class who is selected jointly by the chapter, department heads, and a faculty committee. It is commemorated by a fitting plaque in Tomlinson Hall.

Today, Delta men are outstanding in all phases of college life. The alumni have enhanced, by their achievements, the good name of their chapter, school, and fraternity. Delta Chapter is looking forward to continued growth and is seeking new areas in which to be of service to their campus.

Epsilon Actually Fourth Oldest Chapter

In February of 1911, a group of nine University of California students met at the Theta Delta Chi house to bring about a closer union of geology and mining students. After four meetings of this local, nameless society, under the chairmanship of Ralph Countryman, a petition to Theta Tau was granted and Epsilon Chapter was chartered. The installation occurred in the Phi Gamma Delta house on May 4, 1911, although the charter bears the date May 1, 1911.

It is interesting historical fact that,

All roads lead to Minneapolis

George D. Louderback as Grand Regent

according to Grand Scribe Schrader, although the charter was voted to Delta before Epsilon, the latter chapter was actually installed ahead of Delta. Epsilon is therefore the fourth oldest chapter of Theta Tau.

Fifteen of the sixteen charter members were registered in the College of Mining, the other in Geology in Natural Sciences. Number one, and first regent, was Ralph Countryman. the others were Frank S. Hudson; Walter H. Schroeder; N. John Lund; A. D. Wilcox; C. M. Staples; George D. Louderback; George B. Dillingham; George D. Smith, Jr.; Randolph R. Vail; Guy L. Goodwin; William L. Moody; Chas. M. Heron; George M. Collins; Ernst E. Behr; and Ralph B. High.

Of these charter members, who so ably built the foundation for Epsilon, many went on to professional success. One of these, George D. Louderback, also maintained an active interest in Theta Tau and participated in the duties of the Executive Council, becoming Grand Vice Regent in 1913

and Grand Regent in 1917. He served three terms in this office, the only Grand Regent other than Erich Schrader to serve more than two! Furthermore he has been continuously and consistently interested in Epsilon and long acted, before the days of official "appointments," as faculty adviser. He is currently allowing Epsilon Chapter to use his lot for commercial parking and the revenue from this has put the chapter on a firm financial footing. To him, more than to any single person, does Epsilon owe its success, and indeed its very existence.

Many other great men have gone through Epsilon, building on in times of plenty—retrenching, rebuilding, and holding fast in times of stress. The strength of the chapter has been in the loyal interest of its members and alumni and the responsibility of its officers. In such an organization the regent bears the greatest burden and he, more than any other member, is responsible for success or failure during his tenure. Epsilon has been fortunate in having fine regents and it is a fitting tribute that their names be recorded here.

1911 Ralph Countryman

1912 Frank S. Hudson
Arthur Eaton

1913 N. L. Taliaferro

1914 C. E. Waldner
John C. Fraley, Jr.

1915 Roy S. Rhoades
Thomas H. Kirwan

1916 Frank J. Hoenigmann
E. M. Butterworth

1917 Karl H. Schilling
Joseph T. Deane

1918 John B. Stevens

1919 Glenn H. Alvey
Sam Grimfelder

1920 Hubert L. Pascoe
Ralph T. Salsbury

1921 George L. Klingaman
Richard J. Russell
(later Grand Regent)

1922 H. R. Thornburgh
J. B. Leiser

1923 M. G. Edwards
Ray E. Byler

1924 O. G. McDonald
Norman Hardy

1925 Charles C. Roripaugh
Charles A. Anderson

1926 Kenneth L. Gow
James C. Kimble

1927 Thomas W. Koch
Alfred Livingston, Jr.

1928 Francis W. Anderson
E. C. Simpson

1929 Donald E. Koch
Christian Jensen

1930 Roger F. Rhoades
James B. Chamberlain

1931 C. O. Fairbank
Bert O. Dawson.

1932 Edward A. Hassan, Jr.
R. E. Turner

1933 Georges Vorbe
Jack P. Hays

1934 Cordell Durrell
Robert Coats

1935 Charles A. Lindsay
Cyril Fox

1936 Alton E. McLaughlin
Galen H. Sturgeon

1937 Phillip D. Chubb
James Joubert

1938 Edward M. Wheeler

1939 Allen McClure
Theodore Olsen

1940 Grant W. Metzger
R. M. Sommer

1941 Roy Turner
Max D. Crittenden, Jr.

1942 Wesley R. Carlson
William F. Cox

1943 John S. Gary
Chester M. Gibson

1944	John J. Reed C. Sterling Pratt
1946	Thomas C. Landreth, Jr.
1947	Frank M. Hanson John D. Knoverton
1948	Garnier H. Curtis Harold L. Boyd, Jr.
1949	Thomas E. Gary, Jr. William S. Bartholomew
1950	Leo J. Herrera, Jr.
1951	John R. Parr Marshall Maddock
1952	Richard C. Peterson
1953	L. Wayne Abel
1954	Rudy C. Epis

The faculty advisers, local representatives of the Grand Regent, have stood behind the chapter, counselling, guiding and sometimes prodding, the officers. In a degree known only to the national officers and to a few of the members, brothers G. D. Louderback, D. A. Anderson, Howell Williams, Ed Wisser, and Sam Welles have helped to maintain the continuity of Epsilon.

Since its founding on May 4, 1911, Epsilon Chapter has initiated 761 members into Theta Tau Fraternity. Included are men from Geology, from what was formerly called Mining but is now known as Mineral Technology, and in later years from Paleontology. Consequently, Epsilon alumni have risen to prominence in the petroleum and mining industries and as geologists and paleontologists. Many have become teachers and a few have strayed into other professions or occupations.

The past of Epsilon has been worthwhile. The future looks even better. Epsilon members are all pledged to a greater effort that will bring closer together in years to come the active, alumni, and faculty members of Epsilon Chapter.

Zeta Settled in Chapter House After Many Moves

The Tunnel and Shaft Society was founded at the University of Kansas on October 27, 1911, for the purpose of petitioning Theta Tau for a chapter at K. U. In March 1912, the charter was granted, and on April 17, 1912, the charter members of Zeta Chapter of Theta Tau, Ross I. Parker; Oliver L. Andrews; Herbert L. Wilson; Richard B. Ward; Henry H. Campion; Al

Zeta Chapter charter members Ross I. Parker, left, and Charles M. Coats, right, at the Fortieth Anniversary Celebration, show Dick Boggs, left, and Marshall Brown, right, (then pledges) the technique of polishing the Theta Tau plaque which hangs over the porch of the chapter house.

H. Manglesdorf; Charles M. Coats; Fred E. Johnston; Edwin A. Van Houten; and Herbert A. Rice, were initiated by brothers Erich J. Schrader, H. H. Hopkins, and Benj. B. Walling.

From the time the Tunnel and Shaft Society was founded until September 1915, active meetings were held all over the hill. For the most part they were held in the Beta house, Phi Delt house, Phi Psi house, and the Keltz house. After every meeting the men adjourned to Lee's College Inn for a feed on one of the members. At that time a meal was only 25 cents at the Inn.

In 1915 Theta Tau men were instrumental in founding a Professional Interfraternity Council on the K. U. campus. The same year the first house was opened at 1225 Oread. Evening meals at the house were 25 cents. The Theta Tau House was open to any and all engineering society meetings.

The house was lost during the summer of 1918 and meetings were held in the triangle room in Marvin Hall. In 1919 the first alumni news letter was sent out. In November of that year R. E. Ferguson, '20, was awarded the DSC and the Croix de Guerre.

September of 1920 found Zeta at 1336 Vermont. In December of that year the Theta Tau National Convention was held at Lawrence. Two years later the chapter moved across the street and acquired the first Theta Tau house mother, Mother Ferris. Most of the parties and dances were held at Ecke Hall.

In 1925 arrangements were finally made to purchase the old Phi Delt house at 1409 Tennessee. That year there was recorded the first mention of pledges getting swats for not doing pledge duties. In 1926 Mother Struuer took over from Mother Ferris.

In 1927 the first Red Dog party was held at the house. That was also the year the first Theta Tau-Triangle-Kappa Eta Kappa banquet was held. In 1928 the first large stag party for the men was held "out north of town"! The last of that year also saw the first large debt of about $700. However, by March of 1929 the debt had been paid off and the house was about $900 to the good.

The years 1932-33 saw the Theta Tau parties changed to the Country Club and become very formal affairs. Also in 1933 Theta Tau won the intramural wrestling trophy. In January of 1934, E. J. Schrader paid a visit to the chapter. To encourage pledging that year, $25 was discounted on the first house bill to new men.

In 1936 the chapter started off the fall semester with a large picnic. For fifteen years or so prior to that it had been the custom to end each year with a feast, picnic, or dinner in honor of the graduating seniors. In December of 1936 the Zeta delegates had a short trip to the Theta Tau convention, held at Kansas City. In 1937 the chapter moved to 1245 Louisiana and an annex was rented at 1140 Louisiana. In 1938 the minutes mention that boards were done away with for the pledges.

The continuity of the chapter was broken by the war, but shortly after the war, the Zeta House Corporation purchased the present chapter house at 1602 Louisiana. In 1946, Ralph Nusser, Zeta alumnus who had served on the Executive Council for some time, was elected Grand Regent.

Again in 1950, Zeta Chapter and the Kansas City Alumni Association were hosts to the fraternity when the 18th Biennial Convention was held in Kansas City. It was at this convention that Jamison Vawter, Zeta '16,

terminated his 27-year term as Grand Treasurer.

In the fall of 1951, Zeta Chapter was served for a short while by Mother Cole and is now being served by Mother Dimond.

The addition of a game room in the basement and a parking lot behind the house was made in 1952. The outstanding chapter event of that year was the observance of Zeta's 40th anniversary. House improvements were an outstanding project in 1953-54 for this chapter. Two trophies were added to the house's collection, one in intramural basketball and the other for homecoming house decorations. The active members of Zeta have been leaders and participants in many engineering activities, societies, publishing of the K. U. engineering magazine, and expositions.

Now with nearly 600 Zeta men, the chapter can look back on many years of progress and is looking forward to even greater progress in the future.

Eta Established at M. I. T.

Eta Chapter was founded at the Massachusetts Institute of Technology on May 23, 1912 and existed until the depression year of 1930. In its active period Eta initiated 301 members, many of whom have since achieved great prominence. One of the Grand Regents of Theta Tau, Sidney Marine, was a member of Eta.

Theta's Beginning Shrouded in Mystery

Theta Chapter welcomes this opportunity to tell of her early history. This year marks not only the 10th Anniversary of Theta Tau, but also Theta Chapter's 40th, and, as is well known, the Bicentennial of Columbia.

The roll book of Theta Chapter ends with No. 519. However, the first page of the book indicates No. 12. Therein lies a rather strange story, for the original roll book, started in 1914, was lost sometime during the first World War and was never recovered. And so, the following early history comes largely from information obtained by the chapter from Erich Schrader in 1935.

A Theta Tau charter was granted to

It may be hard to get away from the office but you'll be glad you went to Minneapolis.

the Senior Mining Society in 1914 when Columbia's Engineering School was the School of Mines. This society was originally an honorary one, and membership was considered to be quite an accomplishment. In 1914, the society became more liberalized as a result of student demand, and any mining student was eligible for membership. Under the leadership of Ernest Klepetko, Beta '11, a past regent of his chapter who was attending graduate school at Columbia, a group petitioned Theta Tau for a charter. As a result, the Senior Mining Society became Theta of Theta Tau when fifteen members were initiated on May 26th, 1914.

With the entry of the United States into World War I, the chapter began to disintegrate as the members volunteered for service. Chapter functions were suspended and the records given over to the scribe. After the war, Erich Schrader attempted to recover the records from stray bits of information he had received, but found that the last scribe, Bert Smith, '17, had died. All attempts to locate Smith's family failed. In 1920, the chapter was revived with the initiation of five members by a group from Eta.

It was a rough beginning, but Theta has progressed continually from those early days to now number almost six hundred brothers.

Iota Men Head Missouri Mines Alumni Association for 13 Consecutive Years

Although Iota Chapter was granted a charter on February 1, 1916, installation of the ten charter members did not take place until December 30, 1918.

The following men are charter members of Iota Chapter: James L. Head; Gunnard E. Johnson; Louis W. Ehlers; Robert S. Burg; Fred Grotts; Carl G. Stifel; James A. Worley, Jr.; Frank H. Geib; James J. Dowd; and Wm. H. McCartney. E. Ross Householder, Delta, Roll No. 10, also became affiliated with Iota Chapter at that time. The first faculty adviser was Robert John Anderson, Delta '14, who was later to serve on the Executive Council as Grand Inner and Grand Outer Guard.

At the next installation nine men were added to the group, seniors Colwell A. Pierce, Bernard W. Adams, and Louis A. Turnbull; juniors John G. Reilly, Harry A. Ambler, Martin F. Bowles, Joseph Barton, and Theodore C. Gerber; and Harold T. Herivel, a sophomore.

Since that time Iota has continued to grow until there are now more than 700 members.

Among the many accomplishments of the Iota alumni, one of the most outstanding is their long record of service to the Missouri School of Mines Alumni Association. Since 1941 the Association has been served in consecutive order by presidents who are members of Iota of Theta Tau, with these men being listed in order of service:

Carl G. Stifel, '16, president, Carl G. Stifel Realty Co., St. Louis, Mo.

Fred C. Schneeberger, '25, vice-president, Picker X-Ray Corp. of Missouri, St. Louis, Mo.

Karl F. Hasselmann, '25, president, Salt Dome Drilling Corp., Houston, Tex.

James L. "Babe" Head, resident mining engineer, Anaconda Copper Mining Co., New York, N.Y.

Harry S. Pence, '23, engineer, Sverdrup & Parcel, Consulting Engineers, St. Louis, Mo.

For nearly a decade Joe B. Butler, Iota Honorary, has served faithfully as Faculty Adviser to Iota Chapter.

Kappa Established in 1916

Kappa Chapter was established on March 23, 1916 at the University of Illinois and existed for 23 years. In this period it initiated 433 members.

Lambda the Product of Epsilon Brother's Enthusiasm

In 1908, a group of engineering students at the University of Utah formed the U-Tech Club, its objects and ideals being to enlarge upon and amplify technical and scientific knowledge. In order to foster good fellowship among the student members, it was also a semi-social organization.

Theta Tau Fraternity was established at Utah largely through the efforts of Hubert L. Pascoe, originally of Salt Lake City, who had gone to the University of California to study engineering. While at Berkeley he became a member of Epsilon Chapter of Theta Tau. In 1920, he represented that chapter as delegate to the national convention. Brother Pascoe stopped in Salt Lake enroute to the convention, and while there he met some members of the U-Tech Club. Discussions followed concerning both organizations, and in very short order, the U-Techs prepared, signed, and delivered a petition to Brother Pascoe, requesting membership in Theta Tau.

According to reports, Brother Pascoe made a very convincing argument in favor of the petition, and without further ado, the convention voted to grant the U-Tech Club a charter. Thus in the space of a few weeks, the U-Tech Club became Lambda Chapter of Theta Tau.

Formal establishment of Lambda Chapter took place on April 29, 1920 at 8:00 p.m. at the home of Brother Douglas C. Barnes. The installing officers were George D. Louderback (Epsilon), Grand Regent, and Erich J. Schrader (Alpha), Grand Scribe, assisted by Acting Grand Marshal A. Werner Lawson (Epsilon) and Grand Inner Guard B. N. Kilbourn (Gamma). At this time 25 men became charter members.

The following evening another meeting was held at the home of Brother Barnes for the initiation of 29 alumni members of the U-Tech Club by the Grand Officers present. All the active members were present plus the following visitors: A. J. May, Jr. (Gamma) and Paul Hilsdale (Gamma). The following chapter officers were confirmed: G. Reynold Watkins as regent, Howard H. Haynes as vice-regent, and C. M. Anderson as scribe.

The following afternoon another special meeting was held for the purpose of initiating three honorary members and one more alumni member into Lambda Chapter.

Since its establishment, Lambda Chapter has initiated 667 members, many of whom have remained at the University of Utah on the engineering

faculty. Lambda Chapter is proud of the many outstanding alumni who have become successful in the engineering profession. Likewise the chapter is proud of the many projects and activities in which its members have taken part. The Theta Tau Library, with an outstanding collection of engineering literature and texts; the annual award to the graduating senior engineer who has the best record of scholarship and service to engineering; and the award for Engineer's Week, are only a few of the things Lambda Chapter is doing.

During the 10th anniversary year of Theta Tau, and the years to come, Lambda Chapter is looking forward to a great future of achievement in furthering the ideals of the engineering profession at the University of Utah. Lambda takes this opportunity to salute all the chapters of Theta Tau and the original founders and to wish the Fraternity success in the next 50 years.

Mu Honors Charter Members

In 1914 a group of student engineers on the campus of the University of Alabama organized a club called the "Engineers' Club". This club existed until November 15, 1919, at which time it affiliated with the American Association of Engineers.

Since the A.A.E. took in all engineering students indiscriminately, the fraternal spirit of the organization, to a degree, disappeared.

Twelve men, C. F. Booth, J. W. Cotlin, F. L. Davis, R. E. Mallette, S. D. Moxley, C. C. Shoots, F. C. Smith, W. O. Stephens, R. E. Thompson, R. J. Van de Graaff, C. A. Weston, and J. H. Wingard, felt the need of a strong fraternal organization and fostered this feeling, but took no definite steps until the beginning of the scholastic year of 1921 when they organized a club, called the "Castle Club", with the view of affiliating with a national fraternity. Later in the same year, this group was accepted into Theta Tau as Mu Chapter.

Needless to say, Mu Chapter sincerely appreciates the efforts of these

It may be too cold for swimming but there will be warm fellowship at Minneapolis.

charter members. On Saturday, April 10, 1954, the 50th Anniversary banquet was held and these twelve men were invited as honored guests. Since they are now strung out all over the nation, it was considered fortunate that three could attend the banquet. They were S. D. Moxley, the main speaker; W. O. Stephens, and R. E. Mallette.

Also at the banquet was Brother C. B. Cameron of Beta Chapter who took a great hand in helping Mu Chapter get started.

Since the founding of Mu Chapter, 631 members have been initiated into Theta Tau. Mu Chapter has always been active in campus activities and is held in high regard throughout the campus. This, needless to say, is typical of chapters of Theta Tau.

At the present time the officers are as follows: Regent, Robert Piper; Vice-Regent, William DeLoach; Scribe, Gerald Mahone; Treasurer, Robert Kulp; Marshal, Ned Shows; Corresponding Secretary, Don Jordan. The faculty adviser is Brother J. M. Faircloth.

Nu Chapter at Carnegie Tech

Nu Chapter was founded on January 1, 1922 at the Carnegie Institute of Technology and existed until 1948 when its charter was suspended. During the next biennium, because of the institution's insistence upon modification of the chapter's membership qualifications, Theta Tau reluctantly withdrew the charter. During its 28 years at Carnegie Tech, Nu initiated 516 men. One of these, John M. Daniels, became Grand Regent of Theta Tau and is presently serving as Grand Marshal.

Xi in the Running After Second Start

Xi Chapter of Theta Tau at Wisconsin was founded January 13, 1923, and became inactive in 1929. Seventeen years later on October 29, 1946, a group of enterprising engineering students striving to promote a greater interest in the profession, organized as Gamma Mu Epsilon. The following year, on March 22, Theta Tau returned to the campus when Gamma Mu Epsilon was granted its request to reactivate the Wisconsin chapter.

Presiding at the initiation ritual were Brothers Ralph Nusser, Kansas City, Grand Regent of Theta Tau; Jamison Vawter, University of Illinois, Grand Treasurer; John M. Daniels, Carnegie Tech, Delegate-at-large and Past Grand Regent; H. H. Hopkins, Chicago, Past Grand Regent; John Duntley, Vice-Regent of Alpha Chapter, University of Minnesota; W. C. Turnbull, Regent of Beta Chapter, Michigan Tech; and Richard N. Biggs, of Phi Chapter, Purdue.

Those initiated were John N. Pike, Milwaukee; Norman J. Stickney, West Allis; William A. Hambley, Jr., Milwaukee; William H. Coursen, Madison; Roland D. Block, Milwaukee; Walter Borchers, Detroit; Harold J. Endow, Madison; Burford R. Everett, Madison; James B. Geshay, Racine; Keith E. Gilbert, Madison; Edward H. Jagmen, West Allis; David A. Mickelson, Milwaukee; Alex R. Mitka, Kenosha;

Robert O. Schendelholz, Hartford; Alfred B. Scott, Jr., Rockford, Illinois; Norman C. Sethne, Kenosha; and Joseph R. Vinetti, Milwaukee.

Following the initiation the group adjourned to the Crystal Room for a banquet. Grand Regent Nusser and the Council members delivered brief addresses. Grand Treasurer Vawter presented the new chapter with the brass candle sticks which were used at the Sixteenth Convention. Brothers Frank Bowman, Xi '25, and Gerald Rohlich, Nu Honorary, of the Wisconsin faculty, indicated their interest in the new chapter.

The Grand Regent next called a formal meeting of Xi Chapter and officers were elected as follows: Regent, Buford R. Everett; Vice-Regent, Harold J. Endow; Scribe, David A. Mickelson; Treasurer, William H. Courson; and Corresponding Secretary, John N. Pike. The following morning the new officers received final instructions and the new chapter assumed its place as one of the twenty-four in the Fraternity.

Omicron Emerged Stronger After Merger

An excellent background of the founding of Omicron Chapter is contained in a letter from Brother P. L. Mercer, Omicron '21, part of which is reproduced below:

> . . . Primarily the group was formed as the result of an idea first discussed by three of us who were classmates of 1921—Gordon Lunt, Robert Dethlefs, and myself. We were members of general fraternities and recognized the benefits of such organizations, but felt that a professional fraternity in the field of engineering would be a great advantage to its members. Following many discussions, we held a meeting to which we invited a number of our closest friends in the college. All agreed that a professional fraternity would be a fine asset to the college and to us as members. Accordingly, in January 1920, we organized first as the Mecca Club, but shortly thereafter changed the name to Theta Sigma Delta.
>
> During early 1921, we determined to petition Theta Tau for affiliation. As I remained on the campus as a graduate student the next year, I continued my activities with Theta Sigma Delta and visited Alpha Chapter in Minneapolis for the twofold purpose of learning more about Theta Tau, and of convincing them of our merit as applicants for a chapter.
>
> Our petition was duly accepted and Omicron Chapter was installed in Iowa City on February 3, 1923, by Grand Regent George D. Louderback. Assisting him in these ceremonies were E. H. Comstock, Alpha; Paul Lawrence, Alpha; Frank Hoenigman, Epsilon; and L. A. Grettum, Alpha. The initiation was held in the chapter house located at 120 N. Dubuque Street, and the banquet following was served in the Hotel Jefferson. John Holbrook presided, and while Brother Louderback made the principal speech, all those present responded with short but enthusiastic talks . . .

Thus, Omicron became the twelfth proud member of the Theta Tau family on February 3, 1923. On that date, 19 charter members were initiated: John Holbrook, '24; Louis Baggs, '22; Vern Price, '22; Ronald Owen, '22; Verner Muth, '22; James Phillips, '22; Fred Freese, '24; Donald Hains, '23; John Moran, '23, Russell Hastings, '23; Thomas Herrick, '23; Clarence Sloan, '24; Lloyd Anderson, '24; Lawrence Fry, '25; George Ashton, '23; Kenneth Weir, '24; Clifford Von Hoene, '24; Russell Crawford, '24; and Mark Hess, '25. The first regent of Omicron Chapter was Brother Holbrook, and the first scribe was Brother Fry.

In May, 1923, Paul L. Mercer, who had played an important part in secur-

ing a local chapter of Theta Tau, was initiated into Omicron. Brother Mercer is presently the Grand Treasurer of Theta Tau, and is also editor of *The Gear of Theta Tau*, together with Brother J. W. Howe, Omicron '24.

Contemporarily with Theta Sigma Delta, a local radio fraternity (Chi Delta Sigma) headed by Brother Howe, was searching for affiliation with a highly regarded national organization. The high quality of the members of Chi Delta Sigma made them potential Theta Tau material. These two factors led to a merger and on May 20, 1926, the members and alumni of Chi Delta Sigma were initiated into Omicron Chapter.

In the earlier days, Omicron had a chapter house; in fact, it lived in five different houses up to the time of World War II. Early members may remember the house location on Dubuque street, just north of the Methodist Church. It was at this place that Omicron was host to the National Convention. This occasion was probably etched indelibly into the memories of the delegates due to the inclement weather at that time—it was 23 degrees below zero!

Later, the fraternity was housed on Iowa Avenue and on Market Street, finally acquiring the old Beta house on North Dubuque. During the war and pre-war period, financial problems and low male enrollments in college took a heavy toll of fraternity houses, and Omicron was among the casualties. The house was finally sold in 1947, although its active use by the fraternity ceased some years previous to this.

During the war, the local chapter was inactive, but due mainly to the efforts of Brother Gene Hogan and a few classmates who had returned to school after the war, Omicron Chapter was again revived. Since that time, activity has increased steadily. At present, Omicron is the strongest and most active student engineering group on campus. The local chapter now has 36 active members under the leadership of Regent Marvin Calvert, and boasts 440 alumni, including many prominent S.U.I. graduates. If the enthusiasm and attitude of the present members is a reliable indication, the Golden Anniversary of Theta Tau also marks the Golden Era of Omicron.

Omicron Reinstallation in 1947 (Grand Treasurer Vawter, Grand Regent Nusser, and Past Grand Regent Hopkins in front row)

Pi Important Factor in Virginia's Success Formula

About 1920 a group of leading engineering students at the University of Virginia formed a local organization named "Epsilon Society". The men in this society were chosen for outstanding leadership in the Engineering School as well as for scholastic abilities, it being stressed that the two should play equal parts in their election to this society. This organization began a search for a national engineering fraternity to which it could petition for a charter. In about 1921 Theta Tau was petitioned. After much correspondence, in the spring of 1923, Epsilon Society was notified it would be acceptable. Thus Pi of Theta Tau began on May 26, 1923, with L. C. Harman, the president of the Epsilon Society, as charter member No. 1. The other charter members were: Lyler B. Kiener; Edmund A. Smith; Edgar W. Dare; Harry L. White, Jr.; Elmer M. Knight; William T. Straley; Francis W. Taylor; Thomas S. Martin; Maitland A. Wilson; T. Henry Murphy, Jr.; Rueben R. Kawls; Thomas H. Henderson; Marcellus B. McDavitt; Earl H. Via (deceased Sept. 25, 1935); William R. Dorsey, Jr.; Theodoric B. Edwards; Robert G. Pitz; Harry K. Vought, Jr.; Paul L. Weir; Neuton J. Painter; and William W. Parkinson.

The original aims of Pi Chapter, in addition to those of Theta Tau nationally, were to raise the Engineering School both scholastically and numerically as there were only 200 students in the department at that time. To accomplish this end, Pi sent members to various high schools throughout the state each year and advertised in magazines with letters from professors telling of the school and engineering in general. With the formation of "Engineering Open House" Pi has been able to extend its promotion of the school by exhibiting text books and equipment used by the engineering student to high school visitors.

When Pi was first organized, the meetings were held in the YMCA building at the University. During the next few years the meeting place was changed to the Mechanical Laboratory and a room on the West Lawn was used as headquarters. In 1934 Pi was able to obtain a house which it rented and operated very successfully until World War II caused its shutdown. In 1945 Pi began again to search for a house, but due to the crowded condition of Charlottesville at that time, no place could be found. Now that conditions have settled, Pi is again considering a house and made more definite plans on May 21 when it held the fiftieth anniversary banquet which was attended by many alumni.

In the spring elections of 1924 Pi Chapter began sponsoring candidates for the officers of the Engineering School. In recent years Pi has been very fortunate, having put in 21 officers of the past 22 elected.

In the year 1926 Pi began two activities which have continued to the present. First was the sponsorship of professional talks. The first of these found on record was given by Mr. Derzulactus on "The Measurement of Steam Flow". In recent years the subjects of the talks have shifted to such topics as "The Engineer's Place in Industry" by Dr. Joseph Vaughn and "The Engineer and Contract Law" by Prof. Hardy Dillard of the University of Virginia Law School.

The other function first found on record in 1926 was the sponsorship of a

formal dance held at Memorial Gymnasium. In 1929 Trigon, a local society, joined Pi in the sponsorship of a dance. This dance has now become the highly successful, semi-annual Engineer's Ball. The last one was held on April 30, the date of Engineering Open House.

Rho Comes of Age

A professional engineering fraternity, Alpha Sigma Epsilon, was organized at the North Coralina State College in 1917. A few years later the late Judson D. Albright, Rho '21, started his correspondence with Erich J. Schrader and the local group decided to petition Theta Tau. The petition was discussed at the 1921 Convention of Theta Tau and granted at the Convention in 1923. Thus the Golden Anniversary year of Theta Tau is Rho's 21st year. Rho Roll #1 went to Winfield S. Norris, '24, now a prominent petroleum engineer in Texas. He had gone to the 1923 Convention as a guest and was initiated as the first charter member of the new chapter. Rho was formally installed on February 16, 1924, with a membership of twenty-six which included as a faculty member, the present Chancellor Emeritus, Col. J. W. Harrelson.

Rho Chapter has been in continuous existence since 1924, with an average membership of thirty actives. It did, however, drop to twelve in 1932 when college enrollments lagged due to the depression. The chapter was able to survive intact through the Second World War, and by 1946 had grown so large with the influx of returning brothers, that it was necessary to hold a "get-acquainted" party. Its initiates now number just over 500.

The chapter has been active in many campus projects, among which probably the most important is participation in the annual Engineering Fair. Throughout its history, Rho chapter has maintained an outstanding group

Rho's Winter Formal of 1941

on the campus of North Carolina State College which is one of the large engineering colleges in the United States.

Perserverance Purchased Sigma Chapter House

As the national Fraternity moves onward to its fiftieth anniversary, Sigma Chapter takes pleasure in reviewing thirty years of existence as a chapter.

It was in the fall of 1921 that a group of engineering students at the Ohio State University applied to the administration for recognition as "The Engineers' Club." This group wished to promote " . . . a professional engineering club wherein, through the bonds formed by social contact, they could broaden their technical training, widen their outlook, and advance in their chosen profession". Such recognition was granted and in the year which followed the members spent most of their time drawing up a constitution and formulating policies for the club's operation.

In the fall of 1922 the members recognized the need for a house if the objectives of the club were to be carried out. Therefore the club investigated the possibility of obtaining a house, and in 1923 they were able to lease a house at 181 E. 12th Avenue from another fraternity at Ohio State.

On April 10, 1924, the club petitioned the executive council of Theta Tau to accept them as a chapter of the Fraternity; this request was granted and on November 29, 1924, a group led by Acting Grand Regent Jamison Vawter, installed the new chapter.

From the very beginning of the chapter, it was the hope of the members to be able to purchase a chapter house someday. To accomplish this the members set up a house note system in the spring of 1925; under this system each member signed a seventy-five dollar note at the time he was initiated. This note was then payable to two faculty members within five years of graduation. This system was continued until the fall of 1929 when an Ohio corporation, Sigma of Theta Tau, Inc., was set up to administer the note system.

In the fall of 1925 the chapter moved from its original location to a house at 219 E. Lane Avenue which it continued to occupy until the spring of 1927. At the beginning of the fall of 1927 the chapter moved again, this time to 70 E. 18th Avenue where it

Boy oh boy! Today I leave for Minneapolis.

remained for three years. The next move, to 1961 Indianola Avenue, proved to be quite permanent since the chapter remained there until it was forced to close the house, because of the war, in April of 1944.

The chapter was able to remain active during the war although at times active meeting would be attended by only two brothers. This situation continued after the war and it was mainly through the efforts of a group of Columbus alumni that the chapter was renovated. The rebuilding was so successful that in the fall of 1948 the chapter felt it was strong enough to rent a house at 47 E. 16th Avenue. The lease on this house was maintained until the summer of 1951 when a long-sought goal was realized—the purchase of a chapter house. This house, at 1946 Indianola Avenue, was financed by a combination of the money which had accumulated from the house notes and a heavy mortgage.

Mainly through the efforts of Sigma alumni, an alumni club was formed in Columbus soon after the installation of the chapter. This club operated for a few years and then aplied for a charter as the Central Alumni Association; the charter was granted to them on December 22, 1928.

From the attainments of the chapter and its alumni it seems that they have gone far toward fulfilling the purpose of the old "Engineers' Club" as set forth in its petition to Theta Tau—"The purpose of the Engineers' Club is to encourage and promote a high professional attitude toward 'Engineering'—to make leaders in the engineering profession."

Tau Once Alpha of National Fraternity

Tau Chapter of Theta Tau was formerly the Alpha Chapter of Tau Delta Sigma. Tau Delta Sigma was founded in 1905 as a local professional engineering fraternity with the object in view of becoming nationl after suitable expansion. This intention was carried out by the giving of charters to two locals at Brown and Lehigh Universities. Partially because of World War I and partially because these chapters did not keep in touch with the parent chapter, their organizations died out. Still with the desire to unite with a national professional organization whose purpose is to foster fellowship and strong personal bonds among its alumni, Tau Chapter of Theta Tau was established.

The chapter was formally installed at Syracuse University on December 12, 1925, by Grand Vice-Regent J. Sidney Marine, who officiated. Since then, the membership of Tau Chapter has grown to 581 members and at the present time there are 37 active members.

In 1927, the chapter began to sponsor some of the activities of the College of Applied Science. The annual Engineering Dinner was the first activity undertaken. Following this, the Engineer's Ball and the Engineer's Picnic came under the auspices of Tau Chapter.

In 1941, the first atempts were made by Tau Chapter to obtain a chapter house. Because of lack of funds and the start of World War II, this project was abandoned. Frequently the attempts have been renewed, but they have met with little success. A combination of University regulations and the large number of

brothers whose homes are in the Syracuse area are the reasons for this lack of progress. At present, the chapter is starting a long-range plan with the object of buying a house.

Many alumni of Tau Chapter have gone on to distinguish themselves in the field of engineering. Among the most outstanding are former Dean Louis G. Mitchell; Kenneth A. Digney, '31; Theodore P. Hall, '27; Harold G. Merry, '28; and Carl F. Woese, '25.

Dean Mitchell was former dean of the College of Applied Science at Syracuse University and a charter member of the local chapter. He retired in June 1950. Brother Digney is President and General Manager of Oberdorfer Foundries in Syracuse. Brother Hall is Chief Engineer at Consolidated Vultee Aircraft Corp., San Diego. Brother Merry is Asst. Plant Engineer at the Du Pont Chambers Works in Deepwater, N. J. Brother Woese is a partner in the consulting firm of Robson and Woese in Syracuse. He is also a charter member of Tau Chapter. These are only a few of the outstanding brothers, for there are many others who have done well in their chosen field.

With the hope that it may, in the future, be a better chapter and continue to grow still larger and stronger, Tau Chapter sends best wishes to Theta Tau on its 50th Anniversary.

Tau-sponsored Engineers' Picnic—Fall 1950

Upsilon Has Fine Examples To Live Up To

The Delta Psi Fraternity was organized at the University of Arkansas during the winter term of the school year 1918-19. It was then known as the Engineers' Club. It was organized for the purpose of promoting the interests of the College of Engineering, as well as fostering an interest in student activities. The club existed until the fall of 1920, merely as a leading body in the activities of the Engineering College. At this time, however, the members, realizing the need of a greater feeling of brotherhood and

fraternalism in the Club, reorganized it on a different basis and revised the constitution with the idea of eventually petitioning for membership in a national engineering fraternity.

With this change of policy and with the advent of brotherly relations, the Club became a staunch fraternal organization. Membership was limited to juniors and seniors enrolled in regular courses in engineering, and was based upon scholarship, practicality, personality, and prominence in student activities. At this time it was voted that members should retain membership in the Club as alumni upon graduation. After a sucessful year it was thought that the Club had attained a standing which would warrant petitioning a national body for membership and, on March 31, 1921, a petition was sent to the Executive Council of Theta Tau Fraternity.

The beginning of the school year of 1921-22 found only a small number of the active members of the Club back in school, but these, with the aid of the alumni, selected the most worthy men in the junior and senior classes and began the new year in good shape. During the fall term, various letters of recommendation were procurred and were sent to support the petition. At the convention of Theta Tau, however, the petition was held over for further information. Realizing the deficiencies of the first petition, it was then decided to get up a new and more complete petition and submit it to the Executive Council for consideration. Prior to this, the name of the club was changed to the Delta Psi Fraternity, since such a name was more in keeping with the character and policy of the organization.

During the fall of 1926, the members of Delta Psi local engineering fraternity revived interest in petitioning Theta Tau for a chapter at the University of Arkansas. Correspondence and personal association with two members of the national frater-

Charter members Professors Spencer and Stelzner with honorary member Clark Hungerford at his initiation in 1918.

Upsilon entertained Grand Regent Vawter in February 1934. From left to right: Prof. J. R. Bisset (faculty adviser), Jamison Vawter, and Regent George Ballard.

nity, Dr. R. J. Russell from Texas Tech at Lubbock, Texas, and Professor C. V. Mann of Rolla, Missouri, were continued for over a year and a half. Nevertheless, the men were rewarded for their efforts in December of 1927 and were granted a charter to operate as Upsilon Chapter of Theta Tau.

The first opportunity for the installation of the chapter was during the Easter holidays and, consequently, the date was set for April 7, 1928. The installing team was composed of Dr. R. J. Russell of Texas Tech, the newly-elected Grand Regent; Professor Donald D. Curtis from Iowa University, the Grand Marshal; Professor C. V. Mann from Missouri School of Mines; and L. J. Burg from the chapter at Rolla, Missouri. The initiation was held at the Mountain Inn Hotel in Fayetteville, beginning about two p.m., and the following men were initiated as charter members of Upsilon Chapter: Gerald D. Stough, R. H. Clark, Porter J. Byrd, Theo. Tony Spitzberg, Theodore E. Peter, E. Pelham McGehee, Charles H. McRaven, Eugene B. Stokes, Professor W. B. Stelzner, Professor W. R. Spencer, Henry W. Schneider, Thomas L. Huckaby, Dick Ray, John W. Richardson, Albert B. Hubbard, and Fred E. Coker. The following men were initiated as active members: R. Max Brooks, Carl J. Natho, Jim R. Stephens, Lloyd H. Pond, Hugh R. Hart, Harold C. Leimer, S. Camp, and Robert A. Bowman. The initiation was well carried out to the last detail.

Two of the founders, Professors W. B. Stelzner and W. R. Spencer, contributed steadily to the growth of Upsilon Chapter. In April of 1950, when Brother Clark Hungerford, president of the Frisco Railroad, was initiated as an honorary member, these two founders were also honored. The chapter's Founders' Day celebration, later in that same year, was especially devoted to honoring these founders and former advisers of Upsilon. Each was presented with a solid gold ring bearing the crest of Theta Tau.

Professor Stelzner began his career at the University in 1909 and was head of the Electrical Engineering Department from 1936 until 1951. He was very active in committee work and served for a number of years as chairman of the Student Organization Committee. During that period, Tau Beta Pi, honorary engineering fraternity, was installed, in addition to six social fraternities, three sororities, three debating societies, and the American Institute of Electrical Engineers. In addition to this work, Professor Stelzner helped publish the first issue of the *Arkansas Engineer* in 1912 and helped gain its admittance to the Engineering College Magazine Association. He was also responsible for starting Engineers' Day on the campus in 1911. Professor Stelzner received B.E.E. and E.E. degrees at

the University of Arkansas, and his M.S. at Ohio State University.

Likewise, credit should be given to Professor W. R. Spencer, who served on the faculty until 1950, the last four years as Head of the Civil Engineering Department. Brother Spencer was actively engaged in research, primarily within the scope of road materials and cements obtained from native soil. He wrote two extensive booklets entitled "Road Materials in Arkansas" and "Portland Cement Materials in Arkansas", both the culmination of years of careful experimentation. He also engaged in consulting engineering. Perhaps the one who knows him best, former Head of the Chemistry Department of the University, Dr. Harrison Hale, has written:

> *Few persons rendered greater service to the community than he. Long service on the City Board of Education, of which he was chairman, left its mark on a growing educational system. For about the same number of years he was an Elder in the Central Presbyterian Church and Chairman of the Finance Committee as well as of the Building Committee, each of which demanded time and ability.*
>
> *From the beginning of the Arkansas Water and Sewage Conference in 1930 until 1931, he was Chairman of the Executive Committee, being also Chairman of the Conference in 1947. He was in reality one of the founders of the conference, which has done much for the improvement of the water supply and sewage disposal in the state.*
>
> *High-minded, public-spirited, willing to serve, with a pleasing personality, he was able to give very much . . . capable, friendly, and helpful, he was an excellent example during his active life of a member of an engineering fraternity.*

Brother Spencer received his B.A. from the University of Indiana, and received his B.S.C.E. degree from Rose Polytechnic Institute.

Since the retirement of Professors Stelzner and Spencer, Upsilon Chapter has remained actively engaged in many activities. One of the highlights of this past year was the visit of Grand Regent Jamison Vawter on February 8, 1954.

Through the knowledge of the diligent efforts of the early petitioning members, as well as the fine records of the two main founders, the members and alumni of Upsilon of Theta Tau have reason to be proud, and should cherish this rich legacy.

Phi Was Host to Last Convention

The founding and organizing of Torque Fraternity, May 16, 1921, on the Purdue University campus was the first of many steps resulting finally in the formation of Phi Chapter. Twenty-eight Electrical Engineering students joined together for the purpose of gaining fellowship, strengthening the bonds of those in the engineering profession, and improving student scholarship. Very little time passed before a constitution was drawn up which explicitly outlined the high standards and principles believed in by the founders. It was this initial constitution which was later found to have much in common with that of Theta Tau.

During the first year many changes were effected: officers were elected, a residence home rented, help hired, and the constitution revised. (Constitution revision embodied opening membership to all engineering students.) In 1927, when Torque had shown it was an organization of high

standards and ethics, a petition was made to Theta Tau for the establishment of a chapter on Purdue's campus. This petition was granted and the chapter was formally installed April 21, 1928, as Phi Chapter of Theta Tau Fraternity.

The years 1928 to 1942 were successful for Phi. In that period Theta Tau, as a member of the Purdue fraternity system, made an outstanding name for itself by having men who were top in scholarship, athletics, and campus organizations. The house membership remained rather stationary during these years at a point of comfortable capacity. This large group of men afforded opportunity to make many house improvements.

It was during this time of prosperity that World War II struck the country and in its wake many Phi brothers were called to service. From October of 1942 to February of 1946, the number of members was at a minimum. True to the custom of the organization, the chapter continued to function. Two other fraternal groups, who normally maintained large houses, moved in with Phi chapter for the sake of economy for all parties involved. This permitted Phi to continue active on the campus while many other fraternities were closed. By February, 1946, Phi was back on its feet and operating normally. The majority of the men were veterans whose more mature outlook gave the house a steadying influence during readjustment.

Phi acquired its chapter house in 1934

In the spring of 1950, a new occasion was added to the "Annual Events Calendar." Phi and the Purdue chapter of Triangle began the Engineers' Ball. At this spring dance the two fraternities vie for the right to possess a trophy for the following year by inventing, designing, and constructing a device known as a Rube Goldberg Machine. These machines are laughingly defined as . . . "a complicated machine to achieve a simple end."

Again in 1950, with the entrance of the United States into the Korean conflict, Phi brothers once more left the house to serve their country and Phi was back in a spot. Fortunately, the situation did not last long and recently these same men have been returning to complete their degrees. At the present time the house is about two-thirds full with an extensive rush program planned for future years.

Through the course of the twenty-six years of Phi's history, there have been up's and down's with periods of trial and prosperity. In spite of the difficulties the members have manged to come out on top, thanks to the firm foundation given by their founders. Phi now boasts a chapter house; a regular publication, *The Link*, and even a chapter mascot, a St. Bernard named Jezebel. Those who attended the last national Convention in 1952 are convinced of the fine spirit of Phi Chapter whose members were excellent hosts to the 19th Biennial Convention.

Chi Knocking at Silver Anniversary Door

Chi Chapter of Theta Tau was founded on April 23, 1930, at the University of Arizona. At this time Brother Richard J. Russell was Grand Regent of Theta Tau and presided at the installation. Others present for the installation were: Bruce B. Ellis, Alpha '08, acting Grand Vice-Regent; Harold A. Jimerson, Zeta '26, acting Grand Scribe; Fred A. Enke, Alpha '21, acting Grand Treasurer; E. S. Borgquist, Gamma '11, acting Grand Marshal; E. D. Gardner, Gamma '06, acting Grand Inner-guard; and T. J. Long, Zeta '29, acting Grand Outer-guard.

Pi Delta Tau, a local engineering fraternity, had petitioned Theta Tau and a charter was granted. Although Louis Fiscel's name does not appear on the charter of Chi Chapter, his efforts as head of Pi Delta Tau were of great importance in the founding of the chapter.

The charter members of Chi Chapter are: Roy M. Goar; Fred F. Denny; Jack H. Hopper; Charles J. McCash; Jacob Erickson, Jr.; Leo L. Laine; D. Carson Minton, Jr.; Otto K. Mangum; Rex L. McBride; William E. Tremaine (deceased); and Gurdon M. Butler. We are proud to state that these men have done well in their chosen professions.

Brothers Goar, Denny, and Hopper are with General Electric Corp. Brother McCash is with the Reclamation Service. Brother Erickson is with the Bureau of Public Roads and Brother Laine is with the U.S. Geological Survey in Tennessee. Brother McBride is a rancher in California and Brother Mangum is manager of an electric power company in Mesa, Arizona. Brother Butler is Dean Emeritus of the College of Engineering and has remained active in the College. Brother Minton was in Washington during World War II and at last report was assistant to the director of the Batelle Memorial Institute.

No list of the pioneer men of Chi Chapter would be complete without the names of Brothers E. S. Borgquist and Harold E. Jimerson. Both of these men aided greatly in the establishment of the chapter. Brother Borgquist, Head of the Civil Engineering Department at Arizona, has been of great help to Chi ever since its founding. Brother Jimerson was an enthusiastic supporter of Theta Tau

Arizona's Mines and Engineering Building—site of Chi's installation

and probably took the most active part in establishing Chi Chapter, and his efforts in this behalf will long be remembered. He was captured by the Japanese at Bataan and died a prisoner.

Since the founding of Chi Chapter, four hundred seventy pledges have been initiated to membership. In 1955 Chi Chapter of Theta Tau will celebrate the twenty-fifth anniversary of its founding.

Psi Installed by Grand Scribe Schrader

The history of Psi Chapter dates back to 1931 when the local Alpha Theta chapter at the Montana School of Mines saw the advantages of a bond with a national fraternity. Upon examining the national fraternities, Alpha Theta decided to petition Theta Tau. The correspondence was then begun which took well over a year before a letter of recognition was received from the Grand Scribe, Erich J. Schrader.

Arrangements were completed and on May 7, 1932, Psi Chapter was installed as the twentieth active chapter. E. J. Schrader, Grand Scribe and T. C. Adams, with the assistance of G. B. McLeese, Past Regent of Lambda, initiated twenty charter members and eight active members into Theta Tau Fraternity.

John Conrow, Regent; Ralph Seideman, Scribe; and Charles Trueworthy, Treasurer, were chosen as the first officers of Psi Chapter. These men were very instrumental in laying a firm foundation for the future of Psi.

From this small band of twenty-eight members, Psi Chapter now claims a total membership of 340. Of these, thirty-one are active members on the campus of the Montana School of Mines at the present time.

Omega Grew from First Fraternity on Campus

Omega Chapter of Theta Tau was estblished on the South Dakota School of Mines campus on March 26, 1932. The prior organization, which led eventually to affiliation with Theta Tau, was the local fraternity of Phi Alpha Lambda. The Phi Alpha Lambda fraternity was organized at South Dakota Mines in 1920, with the distinction of being the first fraternal organization at the school. Being the first fraternity, it naturally had to face a great deal of opposition during its early existence on the campus. Most of this opposition could be traced to ignorance of the aims and purposes of a fraternity. However, as the fraternity grew in size and spirit, its influence also increased favorably, so that soon it had the whole-hearted support of the president and faculty, and the good will of the student body. Although organized as a social fraternity, Phi Alpha Lambda had been interested in development along engineering lines. Consequently, the members, realizing the advantages of affiliation with a national professional engineering organization, petitioned Theta Tau Fraternity for a charter. The granting of this chartr in 1932 established Omega Chapter of Theta Tau at South Dakota Mines, with the petitioning members of Phi Alpha Lambda as the charter members.

Some of those charter members now

located in Rapid City are Francis Estrup, Gerald Munson, and John Lampert. On the South Dakota Mines faculty are charter members, Professors Dake, Bump, Rowe, and Kammerman. The success of the chapter has been due to a great extent to the continued interest of these men and others of the alumni body.

Since its beginning in 1932, Omega Chapter has become an important organization on the Mines campus. Omega Chapter has its own house which has accomodations for 21 members. Omega Chapter is proud of its house and its activities on the South Dakota Mines campus and is looking forward to a bigger and better future.

Gamma Beta the Realization of Ames' Ambition

For some time prior to 1927 the need for closer fellowship among the men enrolled in the several branches of engineering at the George Washington University was very apparent. On April 28, 1927, a meeting was held at which the professional engineering fraternity, Phi Theta Xi, was organized.

With the strong backing and encouragement of both the school in general and the engineering faculty in particular, this fraternity flourished. The calibre of its men was such that, soon after its founding, both the real and imaginary barriers between the several branches of engineering students were battered down. It was due to these unification efforts of this small handful of men that an activity known as the Engineer's Banquet was born on the George Washington campus, and it is to their credit that this activity is still celebrated every year.

In 1934, feeling the need for an even stronger fraternity, and at the suggestion of "Deacon" Ames, these men petitioned the Executive Council of Theta Tau for a charter. This petition contained letters of recommendation from such eminent people as University President Marvin, Engineering Dean Lapham, and again, Norman Bruce Ames. On March 16, 1935, Professor Ames realized one of his fondest dreams, that of being a founder of a chapter of Theta Tau.

Norman B. Ames as Grand Regent

This great man, to whom the number one badge of Gamma Beta Chapter was issued, had just begun his career of service to the Fraternity. In 1937 he was Grand Outer Guard, was elected Grand Vice-Regent in 1946, and in 1948 was chosen Grand Regent. The important thing is that in each of these positions he discharged his duties superbly.

Gamma Beta Chapter was fortunate in that only three of its members were

killed during the war years, 1941 through 1945. Many of the men had illustrious military careers, but the chapter is perhaps proudest of Colonel Ames.

Gamma Beta, up to the present time, has initiated 319 men, six of whom are honorary members. Through the years, credit must go, not only to the actives who have passed through the chapter, but also to the fine array of faculty advisers who have served in the past and present. Through their efforts Gamma Beta has compiled a fine record in all fields of scholastic and social achievement, both on the campus, and in the field of engineering.

Among many outstanding men, Norman Bruce Ames has established a record of service for Gamma Beta Chapter that will never be surpassed. Gamma Beta extends heartfelt thanks and sincere appreciation of all that he has done for the chapter.

Delta Beta Dominates Speed School

The Alpha Pi Fraternity was organized on March 16, 1926, less than a year after the founding of the Speed Scientific School as a department of the University of Louisville. Its co-founders, the late Dean Brigman and Professor Wylie B. Wendt, intended this fraternity to be of a professional nature, with membership limited strictly to engineers and composed as nearly as possible of a group consisting of students with high scholastic standings and records of leadership and outstanding performance in gereral school activities. With these objects in mind, the selection of the several students who would individually meet these requirements and collectively form a homogeneous and harmonious group was undertaken. The details of organization were then quickly but throughly worked out and the first business meeting was held a few weeks later. The late Dean Brigman was the fraternity's first faculty adviser, and was succeeded by Prof. Wendt who led the group with great enthusiasm, even helping to form an alumni chapter with regular monthly meetings.

Burning the mortgage

In the late 1930's, this local group began corresponding with our Grand Scribe. Much was due to the efforts of Jean M. Roberts, Pi '26, and George H. Harding, Sigma '26, both on the faculty of the University of Louisville at that time, who had interested the local group in Theta Tau. A petition was finally submitted, and the installation of Delta Beta Chapter was conducted on May 20, 1939.

At this installation Grand Regent Daniels, Grand Vice-Regent Glass, and Grand Marshal Curtis were present

and acted in their official capacities. At a preliminary meeting Grand Outer Guard Ames was appointed to act as Grand Scribe; G. H. Harding, Sigma '26, as Grand Inner Guard; and J. M. Roberts, Pi '26, as Grand Outer Guard. A special meeting of Delta Beta Chapter was then held by the Grand Officers for the purpose of initiating the fifteen charter members of the chapter and Professor W. B. Wendt as an honorary member. The initiation dinner was highlighted by an address by Grand Regent Daniels in which he pointed out the advantages of membership in Theta Tau.

Since its installation, Delta Beta has flourished. Due to an accelerated program at Speed School, the chapter was able to remain very active during the war, its chief problem being the large turnover in membership. Delta Beta has consistently had its members serving as officers in the Student Council of Speed School, as well as having members on the All University Council. The chapter has encouraged scholarship among its members and has encouraged professional activities with guest speakers on engineering subjects.

Delta Beta owns its own house, which serves as a meeting place, since most of the members live at home in Louisville. In this Golden Anniversary year, the event of which the chapter is proudest, was the burning of the mortgage on this house.

Infant Epsilon Beta Has Twenty-six Years of History

Although Epsilon Beta is the infant of Theta Tau, it is not as young as it appears to be. Before becoming affiliated with Theta Tau, Epsilon Beta was known as Epsilon Sigma Fraternity at Wayne University. Its history began with the old Wayne University Engineering Society. Some of the students of this society realized they were lacking the brotherhood present in a fraternity, and decided to form a fraternity which would be able to fill most of the social as well as professional needs of engineers. Thus, in 1928, seventeen members of the society formed Epsilon Sigma Fraternity.

As the years passed, Epsilon Sigma became one of the significant organizations in the Engineering College. In 1950 its members realized they were lacking another important aspect of fraternity life—that of having brothers with similar goals throughout the country.

Epsilon Beta receives its charter

Looking for a national professional engineering fraternity, Epsilon Sigma found in Theta Tau the ideals and desires for which it was searching. In the fall of 1950, Epsilon Sigma petitioned to Theta Tau Fraternity and was installed on May 19, 1951, as Epsilon Beta Chapter.

Since its installation into Theta Tau, Epsilon Beta feels that it has accomplished a great deal toward the success of producing well-rounded engineers at Wayne University, both professionally and socially.

There is also an active alumni group in the Detroit area which perpetuates the fellowship among Theta Taus after graduation.

Alumni Associatian Histories

Twin City Alumi Association Has Been Big Help to Alpha Chapter

The Twin City Alumni Associatinn was founded February 3, 1912. The first officers were Benjamin B. Walling, President (at that time Grand Treasurer of Theta Tau); Julian P. Farnam, '11, Vice-President; George A. DuToit '10, Treasurer; J. E. Haynes '08, Secretary; and George W. Jeyne '10, Corresponding Secretary. All of the founders except Benjamin B. Walling are still living, and all are alumni of Alpha Chapter. The organization was exceedingly active in its early years and letters in the files of Brother Schrader show as many as six technical dinner meetings a year. World War I had a devastating effect, and after that the association limped along for some years until 1926 when there was a complete reorganization and James Colvin was elected President, with Chester Marshall, a past scribe of Alpha, as Secretary. The association has worked closely with Alpha Chapter and its influence has done much for the undergraduate members. It holds two dinner meetings each year and for many, many years its Founders' Day banquet in October has been an outstanding occasion for the reunion of its members. It is proper here to pay tribute to Walter H. Wheeler '06, for his presence every year when at home and his wise counsel to the members.

Members of T.C.A.A. and Alpha chapter with their wives and girl friends meeting for an informal evening of dinner and dancing at the 19th Hole in St. Paul, June 1932

The I.A.A. Has Played an Influential Role in the West

by E. J. Watts, *Secretary*

The Intermountain Alumni Association has been a source of good fellowship among the engineers of the West ever since its founding on June 5, 1920. Thirteen charter members, H. L. Baldwin, Thomas P. Billings, H. W. Clark, R. W. Davis, J. P. Erickson, R. A. Gillis, H. G. Hall, Wm. G. Hayward, Wm. H. Kelsey, R. B. Ketchum, R. F. Penman, Heber S. Nelson, and E. H. Snyder, were present. They provided the needed spark of enthusiasm and the inspiration for leadership. As a result of their outstanding efforts the Association became nationally recog-

nized for its organized contact with all Theta Taus in the area, for its interest in the activities of Lambda Chapter, and for its accurate reporting of the activities of almost every member. None of the members can forget the meticulous care with which Brother C. Milton Anderson kept the records of finance and of the newborn and potential members of H and T, collected the annual dues, etc.

The roster includes many outstanding men of science and engineering who have made the principles of Theta Tau work in practice as well as theory. There was the lovable and fatherly, late Dean Ketchum and jolly, good-natured Windy Dick Lyman; George McLeese was the University "roughneck" of the twenties; Max Kennard and Robert C. Mayer his counterparts in the thirties and forties. Many recall the time Ed Snyder treated the whole group to oysters on the half-shell and a duck dinner at the Alta Club.

Among the accomplishments of the I.A.A. was the decision to use their accumulated funds to start the Theta Tau Book Collection in the University Library. With unceasing vigor H. T. Plumb, Al Sorenson, T. C. Adams, and others drove to establish Utah's first engineering license law in 1935. During the lean years of 1932 to 1940 when jobs were scarce and short-lived, Ed Snyder did his best to help Theta Taus survive the depression by giving them jobs and personal counsel. It has been the privilege of the I.A.A. to have the enjoyment of being with Erich Schrader, not only at meetings, but in private sessions when his sound counsel and business connections have helped many a Theta Tau to surmount his difficulties.

So much for the past history of the Intermountain Alumni Association, which was noteworthy because of an indescribable spirit which realistically bound its members together and gave great satisfaction in the application of H and T concepts. So much, too, for those events that are but pleasant memories of bygone days. The really important consideration right now is the history that will be written of the future decades when Theta Tau will be 75 or 100 years old.

In recent years, many of the present members have felt that the Intermountain Alumni Association was gradually slipping below its former enviable position. Some may wish to blame it on the officers alone. The truth probably is that there is a general deterioration of the "priceless ingredient" which characterized the group in the past. Let us hope that this decline is temporary. We can only reassure ourselves with the certain knowledge that if the existence of the U.S.A. is to be continued, then so must the development of personal integrity and faith in God be promoted with increased vigor. Such a climate of activity would be beneficial to the well-being of Theta Tau and it may well be that from this atmosphere will come the inspiration from which this Alumni Association may reach even greater distinctions. Certainly the current dilemma, like many other engineering problems, will be solved by a fresh and as yet untried approach that will be aided by the proper mores of the area.

In closing, the officers of the I.A.A. salute the national officers and the many unsung, faithful members of Theta Tau who have made it a living symbol of high standards and real brotherhood among the nation's engineers.

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