



The

GEAR

of **THETA TAU**

1904 - 1964



FALL 1964

VOLUME LIV

NUMBER 1





The Gear of Theta Tau

FALL 1964

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Board of Editors

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Cover: Theta Tau's first magazine, Hammer and Tongs, was published in 1905. With the second issue, published in 1909, the name was changed to The Gear and the design reproduced in the center of our cover was used. The design appeared on Gear covers through 1913.

Photo credits: Page 12, Philippe Holman; page 14, Fabian Bachrach; page 22, West Baden College.

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Theta Tau: 1904-1964

A Brief History

It seems but yesterday that four youngsters, spearheaded by Erich Schrader, sat talking of the feasibility of a national engineering fraternity. All were agreed that the medical, law, and dental professions had their fraternities—so why should not the engineers have one? So they went to work and the first twelve months were busy ones.

"It was agreed that character qualifications should have top priority in choosing a man for membership. Looking back on the intervening years, this appears to have been a wise decision."

So wrote Founder Hanks 60 years after Theta Tau was founded by Erich J. Schrader, Elwin L. Vinal, William M. Lewis, and Isaac B. Hanks on October 15, 1904, while they were students at the University of Minnesota. The Fraternity was then known as Hammer and Tongs, and the badge was a gold skull with a hammer and pair of tongs crossed. Erich Schrader, the principal Founder, was chiefly responsible for the Ritual, Constitution, and Bylaws.

Theta Tau began to take on its national character soon. Founder Hanks told his friend Robert Downing, a member of the Rhombohedron Club at Michigan College of Mines, of the new Fraternity. Further correspondence and an inspection trip by "Ike" Hanks led to the establishment of Beta Chapter in 1906.

The next Chapter came about when Founder Lewis went to the Colorado School of Mines. There he made contact with the Square Set Club, which became Gamma Chapter in 1907.

In 1911 representatives of the three Chapters and the Southwestern Alumni Association met at the University of Minnesota for the first national Convention. Several decisions of historic importance for the Fraternity were made. The name was

changed to Theta Tau, and the skull badge was exchanged for the present design. Perhaps most important for future expansion, it was decided that Theta Tau would include all branches of engineering rather than being restricted to mining and related studies.



The original badge of Theta Tau

Erich Schrader continued to serve as Grand Regent until 1919. This period of rapid growth saw the addition of Delta, Epsilon, Zeta, Eta, Theta, Iota, and Kappa Chapters to the roll.

The second Convention, hosted by Beta Chapter in Houghton, established *The Gear* as a project of the national Fraternity. Previously the magazine had been published by Beta Chapter, with H. H. Hopkins taking the initiative. Brother Hopkins was initiated as an alumnus of the Rhombohedron Club in the early days of Beta Chapter. The second Convention appointed Jack E. Haynes, Alpha '08, the first Editor-in-Chief of *The Gear* on a national basis.

In 1919, Dr. George W. Louderback, a charter member of Epsilon Chapter, was elected Grand Regent of the Fraternity. Founder Schrader became Grand Scribe, a position he held until 1954. During Brother Louderback's term as Grand Regent—1919 to 1925—the rapid growth of Theta Tau continued, with Lambda, Mu, Nu, Xi, Omi-

ron, Pi, Rho, Sigma, and Tau Chapters established.

J. Sidney Marine, Eta '21, was Grand Regent from 1925 to 1927. A significant step for *The Gear* was taken in 1926, when Donald D. Curtis, Omicron Hon. '19, was appointed editor. Brother Curtis reorganized the publication of the magazine, and established the file system which, in essence, is still used today.

The period from 1927 to World War II saw much growth in Theta Tau. During the term of Dr. Richard J. Russell, Eta '19, as Grand Regent, Upsilon, Phi, and Chi Chapters were established. Eta Chapter became inactive during this period. Brother Russell designed and issued the first 5,000 membership shingles of Theta Tau, and also designed the robes used by Chapter officers.

Don Curtis resigned as *Gear* Editor in 1929, turning over his job to J. W. Howe, Omicron '24, and Paul Mercer, Omicron '21. Brothers Howe and Mercer carried on for a record period of 32 years, through periods of depression, world war, and prosperity. Brother Curtis became Grand Marshal in 1927 and served until 1948, issuing 8,000 shingles during that time.

Fred Coffman, Lambda '32, served as Grand Regent from 1931 to 1935. Psi, Omega, and Gamma Beta Chapters were added during this time.

Regional Conferences

In 1935 H. H. Hopkins was elected Grand Regent. He had served as Grand Scribe during the early period of 1910 to 1919. During Hopkins' term as Grand Regent, the Regional Conferences were established.

Dr. John M. Daniels, Nu Hon. '22, was the last to serve as Grand Regent in this pre-war period. Brother Daniels later served Theta Tau as Grand Marshal from 1949 to 1958. Delta Beta Chapter was the last to be installed before World War II, and Kappa Chapter became inactive during that time.

Russell G. Glass, a charter member of Sigma Chapter, was elected Grand Regent in 1939. After World War II began, Brother Glass was commissioned an officer in the Navy. When he went overseas in 1943, Past Grand Regent Hopkins served as acting Grand Regent during those hectic years. Of course no Conventions were held during that time.

Post-War Years

At the first post-war Convention, Ralph W. Nusser, Zeta '28, was elected Grand Regent. During his term of office, Omicron Chapter was revived and Xi Chapter was rechartered. The great influx of returning GI's caused many Chapters to be unusually large.

Norman B. Ames, a charter member of Gamma Beta Chapter, served as Grand Regent from 1948 to 1950. Nu Chapter became inactive during his term.

Donald Curtis became Grand Regent in 1950. He had then served Theta Tau since a few months after his initiation in 1925. Epsilon Beta Chapter was established during his term of office.

In 1952 another who had served Theta Tau for many years was elected Grand Regent—Jamison Vawter, Zeta '16. Brother Vawter had served as Grand Treasurer since 1923, a period of 27 years. Paul Mercer was elected to take his place as Grand Treasurer, and he held that office until 1962.

The Golden Anniversary Convention of Theta Tau was a gala occasion for all attending, marred only because Founder Erich Schrader was unable to attend. Throughout the 50 years since 1904, Brother Schrader had been a guiding influence on the Fraternity. He knew thousands of the brothers by name, and kept track of their progress by a voluminous correspondence. At the 1954 Convention, Brother Schrader was retired as Grand Scribe and was elected Counsellor of Theta Tau, a position he was to hold for his lifetime, which ended in 1962. All the Founders have maintained an

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active interest in Theta Tau, and demonstrate by their devotion the value of membership.

A. Dexter Hinckley, Theta '27, was elected Grand Regent at the 1954 Convention. The need for a vigorous program for expansion was becoming apparent, and Past Grand Regent "Deacon" Ames agreed to do some traveling in an effort to establish new Chapters in 1957-1958.



An early picture of Erich J. Schrader

When the 1958 Convention was held, it had become obvious that extension was a full-time job. The Convention made the necessary appropriation of funds, and Grand Regent Charles W. Britzius, Alpha '33, announced the next fall that Robert E. Pope, Zeta '52, had accepted the position of

Travelling Secretary. Brother Pope was to hold this position in addition to that of Grand Scribe, which he has held since 1956.

The new extension policy began to bring results during Brother Britzius' term of office, when Zeta Beta and Eta Beta Chapters were installed.

A Central Office

The 1962 Convention took a further step in the promotion of Theta Tau when it provided for a Central Office with an Executive Secretary to work full time in all phases of the Fraternity's affairs. Bob Pope was named to that position.

William K. Rey, Mu '45, was elected Grand Regent at that Convention. During his term Theta Beta and Iota Beta Chapters have been installed, and other new Chapters are expected.

This brief history of Theta Tau, which names many who have contributed to the Fraternity, omits many thousands more who have worked in the brotherhood of H and T. The officers, committees, and active members of the Chapters carry out the daily activities which are the center of the Fraternity. Thousands of alumni have carved out worthwhile careers which are the fruit of their educations. They read their *Gears* and contribute time, advice, and financial help to their Fraternity when possible.

The world has changed ever more rapidly since 1904, and engineers are leaders among those creating the change. An early member of Theta Tau might well travel the last miles to his new job by stagecoach, or wear a "45" as protection on the frontier, as Walter H. Wheeler, Alpha '06, recently related. Now engineers frequently travel by jet plane, and many of the brothers are working on projects for the exploration of outer space. But throughout the constant change, enduring values such as Theta Tau exemplifies have remained, and the Ritual and traditions of our Fraternity carry on in an unbroken chain.

We Salute You, Theta Tau!

I am looking forward with great anticipation to the prospect of being present at our Sixtieth Anniversary Convention at Columbus, Ohio, in December. This will indeed be an outstanding occasion in our fraternal history. It will be wonderful to renew acquaintance with the officers and members I have met and to meet all of the others present. Perhaps on an occasion of this magnitude, we can all hope to have Founders Vinal and Hanks with us also. At the Fiftieth Golden Anniversary in Minneapolis in 1954, Vinal and I were present, but unfortunately, Erich Schrader was ill and Hanks could not make the trip.

The growth and expansion of Theta Tau over the years, with its increasing number of fine Chapters, is a great tribute to the high caliber of its officers, active members, and alumni.

Greetings to all Brothers in Theta Tau.

WILLIAM M. LEWIS, Founder

Greetings to all my Brothers in Theta Tau on this, the Sixtieth Anniversary of the founding of our Fraternity!

In recalling the 60 years with all their ups and downs, I cannot remember a day when the knowledge that I was wearing the badge of Theta Tau has not been a constant inspiration to better things and a fuller life. In times of misfortune, the sight of it in place over my heart has spurred me on to overcome the obstacles in my path; an intangible feeling that somehow or other, it was not meant that I should fail; that would be inconceivable, degrading. Not a day since 1904 has it been absent from my person.

I firmly believe that if each member of our Fraternity would keep the badge in *full* view at all times, it would prove a like inspiration to the member, as well as benefiting Theta Tau. It would put us out on the "highline," head and shoulders above the others who are deplorably lacking in this respect.

ISAAC B. HANKS, Founder

After a long life, and almost fifty years in Theta Tau, what should I say to the active members? Should I reminisce? Should I tell them what Theta Tau has meant to me? Or should I give them some advice?

Perhaps I should resolve this dilemma by giving them something to think about, and it is this—everything you do, all the little increments of acts and thoughts add up to the completed character. Therefore, if you want peace of mind and happiness in the later years, base your thoughts and acts on the Ten Commandments and the Golden Rule.

And now I remember reading somewhere of an African tribe in which, if anyone wished to address the tribe, he must do so standing on one leg—this to ensure that his remarks would be brief and to the point.

Best wishes for a happy and successful life.

J. SIDNEY MARINE, Grand Regent, 1925-1927

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I am pleased to have the opportunity to salute Theta Tau on the occasion of its Sixtieth Anniversary. My early initiation at Beta Chapter is one of the most important contacts of my life. Many of its members have been among my closest friends. I was chosen as their representative in the formation of the Executive Council, which led to close association with our leaders since.

Theta Tau was the first of the professional engineering fraternities and has led all the way. It has occupied a very prominent position on the campuses which were available to it. As our Fraternity enlarged, its prestige grew. Its graduates have held high offices in the engineering field and in the organizations of many companies.

It is hard to realize that sixty years have elapsed since our Founders organized as Hammer & Tongs Fraternity. Our leaders devoted their time and talents to further the high purpose to which Theta Tau was dedicated. We owe a great debt to the men who served in the key positions for more than two decades. It was my privilege and pleasure to know them well.

We are entering on a new era of activities and the added contacts between officers and Chapters will ensure our continued growth and progress. I will always cherish the friendships which membership in Theta Tau has brought me, and extend to all its members my sincere fraternal greetings and best wishes.

H. H. HOPKINS, Grand Regent, 1935-1937

The opportunity to extend greetings to my Brothers in Theta Tau is appreciated. My association with the Fraternity started in the middle Twenties when I was initiated as an honorary member by Nu Chapter and was appointed the Chapter Adviser. In 1931 it was my privilege to be elected to the Executive Council, which gave me an opportunity to meet with almost every individual active Chapter over the years from 1931 until 1959, when it was time for the Executive Council to place the affairs of the Fraternity in the hands of younger men.

As indicated, my connection with Theta Tau has been rather long and most rewarding. One of the greatest events for me in Theta Tau was to be in Rolla, Missouri, on May 19, 1962, and witness the initiation of our son, John Jr., as a member of Iota Chapter.

Over the years, the Fraternity has had a strong leadership and was able to call upon the services of a succession of outstanding men to voluntarily assume the tremendous responsibilities which led to its successful and continuous operations. This has been because Theta Tau has provided serious and lasting benefits to its members in that the contacts which are made are in line with the serious purpose of the Fraternity—an ideal which becomes more firmly rooted in our hearts as the years go by.

The present members of the Council are to be congratulated on their achievement and leadership, and I extend every good wish for the future.

DR. JOHN M. DANIELS, Grand Regent, 1937-1939

On the occasion of this Anniversary—greetings to the many Brothers with whom it was my privilege to associate.

Your Editor has given us quite a task—to try to put on the printed page some of our memories and feelings about Theta Tau. Thinking back to the beginning, I was an active in Theta Chapter—#112, 1927. Except for one early year, I stayed close to Columbia through the present, and thus have been in almost continuous contact with Theta Chapter. In 1934 when our wonderful Prof. T. H. Harrington, '89, (Theta's first honorary), retired, I was named Theta Adviser. Those were my best years—instructor and assistant to the dean, serving as adviser to the incoming engineering classes. This gave me a very close and personal relation to the students, and by the time they became Theta actives I knew them well.

From 1944 on I served as executive secretary of the Illuminating Engineering Society (managing director since 1958), and starting in those years it was my fortune to share in several offices in the Executive Council. This put me in the unique position of presiding when Theta's "resignation" was considered. It was my privilege to preside at a later Convention when the Fraternity acted to modify its membership requirement. Time heals all wounds, and it was a great satisfaction when Theta was reactivated on the petition of a local at Columbia.

Those years in which I shared the active leadership were full ones. I marvel at the letter writing I did; I was my own secretary after 5:00 p.m. This is the kind of experience all of your Executive Council members have always had—and continue to have. Such experiences are rich—the satisfaction of accomplishment, the continued work with young actives. (They seem to get younger every year.)

To those of you who read this and remember our association—a special greeting—and a wish that you have had and continue to have, as I have, years of wonderful experience in Theta Tau. To you younger Brothers who are closer to the beginning of things—you have the chance to share in that full life and if you are lucky, it will be with your Brothers in Theta Tau.

A. DEXTER HINCKLEY, Grand Regent, 1954-1958

Best wishes to all members of Theta Tau Fraternity on the occasion of our Sixtieth Anniversary. This is a time for reflection concerning our objectives and accomplishments. Our objective, "to promote the formation of lasting friendship among its brothers—to inculcate the principles of professional integrity and personal honor among its members," is certainly a worthy one that I feel is being accomplished.

I look back to my college days with a fond recollection. Many of my present friends and professional associates were first met through my membership at Alpha Chapter at the University of Minnesota. I cherish the opportunity that I have had serving as a national officer, which gave me an opportunity to associate with the big men of Theta Tau nationally, many of whom have now passed on. Times change but our Fraternity can still be of lasting value to students, alumni, and to the schools where we have Chapters.

C. W. BARRZUS, Grand Regent, 1958-1962

Sixtieth Anniversary Convention Plans

The Sixtieth Anniversary Convention will be held at the Deshler Cole Hotel in Columbus, Ohio, December 27 through 30, 1964. The convenient location and scheduling, and the significance of Theta Tau's Sixtieth Anniversary should make this the best-attended Convention to date.

Sigma Chapter, which celebrates its own Fortieth Anniversary this fall, will serve as host for this Twenty-Fifth Biennial Convention.

The Founders of Theta Tau will be invited to be special guests of the Fraternity at this historic Convention. Distinguished alumni will serve as keynote and Convention Banquet speakers.

Among the important matters to be decided by the Convention are questions regarding curricular eligibility for membership, establishment of a colony system for extension, adoption of a flag design, and Ritual improvement.

Hotel facilities will be adequate to accommodate alumni arriving without reservations, but those desiring to attend part or all of the Convention may obtain further information and make reservations through the Theta Tau Central Office.

Listed below is an abbreviated schedule for the Sixtieth Anniversary Convention.

Sunday, December 27

Registration, presentation of credentials
Committee meetings
Buffet dinner, keynote address
First Convention Session

Monday, December 28

Chapter Officer Workshop
Tour of campus
Ritual Workshop
Luncheon
Second Convention Session
Memorial Service
Dinner with panel discussions
Committee meetings

Tuesday, December 29

Third Convention Session
Luncheon with regional meetings
Fourth Convention Session
Initiation
Convention Banquet

Wednesday, December 30

Final Convention Session
Installation of new Executive Council
Luncheon, Executive Council meeting



Sigma Chapter's house

Twenty-Ninth Chapter to be Installed

The petition of Mu Sigma Epsilon at Mississippi State University has been accepted by the required vote of the Fraternity, and the local group will be installed as Kappa Beta Chapter of Theta Tau this fall. The installation ceremony, to be followed by a reception and banquet, has tentatively been scheduled for November 21, 1964.

Mu Sigma Epsilon was established a year ago with the objective of petitioning for a charter. The student body of Mu Chapter, Grand Executive Secretary Pope

have maintained contact with the local fraternity as it progressed.

The current officers of Mu Sigma Epsilon are James K. Upchurch, Jr., president; Pat F. Yarborough, vice president; Neilson Buchanan, recording secretary; Emile Nassar, corresponding secretary; and James Cuicchi, treasurer.

Nearby alumni will be individually invited to attend the ceremonies in Starkville. Others interested in participating in this event and welcoming into the bonds of Theta Tau its twenty-ninth Chapter, may obtain information from the Central Office.

Contributors to Theta Tau Progress

acknowledges with gratitude the contribution of the following alumni:

Upsilon '55
Kappa, Theta '50
Alpha '33
Gamma, Nu '48
Delta, Upsilon '51
Epsilon, Epsilon '31
Zeta, Mu '39
Eta, Omega '47
Theta, III, Mu '62
Iota, Epsilon '24
Kappa, Chi '43
Lambda, Epsilon '10
Mu, Upsilon '63

E. C. Gaston, Mu '23
Michael A. Gibbs, Mu '57
Willard F. Gray, Mu Hon. '34
E. A. Hassan, Jr., Epsilon '31
Carl P. Hesselbach, Mu '62
Tobin Humphrey, Theta Beta '64
J. Jay Jakosky, Zeta '20
James R. Kimzey, Upsilon '61

Ralph M. King, Zeta '25
George L. Klingaman, Epsilon '20
William M. Lewis, Founder, Gamma '09
Charles A. Lindsay, Epsilon '35
Reese E. Mallette, Mu '22
Henry J. Matchett, Alpha '13
Ralph A. McGoe, Epsilon '27
Ray W. Morgan, Lambda '39
Carter E. Nelms, Chi '48
L. W. Neubauer, Alpha '26
Jack McK. Pardee, Gamma '36
E. N. Pennebaker, Epsilon '24
Marvin D. Petersen, Omega '40*
Ross M. Phillips, Epsilon '36
Robert E. Pope, Zeta '52
Simon Ramo, Lambda '33
Philip W. Schasker, Alpha '60
Lyle W. Smith, Alpha-Beta '24
Paul Meredith Speake, Mu '27
G. Keith Taylor, Gamma '23
Jay N. Thorpe, Lambda '57
A. H. Tousley, Delta '46
Herman W. Weddle, Epsilon '28
Max L. Williams, Jr., Nu '42
J. Harold Witherspoon, Mu '34

* Memorial Gift from the Pacific Northwest Alumni Association.

Twenty-Ninth Chapter to be Installed

The petition of Mu Sigma Epsilon at Mississippi State University has been accepted by the required vote of the Fraternity, and the local group will be installed as Kappa Beta Chapter of Theta Tau this fall. The installation ceremony, to be followed by the traditional reception and banquet, has tentatively been scheduled for Saturday, November 21, 1964.

Mu Sigma Epsilon was established a year and a half ago with the objective of petitioning Theta Tau for a charter. The student members of Mu Chapter, Grand Regent Rey, and Executive Secretary Pope

have maintained contact with the local fraternity as it progressed.

The current officers of Mu Sigma Epsilon are James K. Upchurch, Jr., president; Pat F. Yarborough, vice president; Neilson Buchanan, recording secretary; Emile Nassar, corresponding secretary; and James Cuicchi, treasurer.

Nearby alumni will be individually invited to attend the ceremonies in Starkville. Others interested in participating in this event and welcoming into the bonds of Theta Tau its twenty-ninth Chapter, may obtain information from the Central Office.

Contributors to Theta Tau Progress

Theta Tau acknowledges with gratitude the gifts received from, or in memory of, the following alumni:

James C. Barr, Upsilon '55
Charles Boudakian, Theta '50
C. W. Britzius, Alpha '33
Thomas E. Burns, Nu '48
Don E. Callahan, Upsilon '51
Robert R. Coats, Epsilon '31
W. F. Cobb, Jr., Mu '39
Arthur B. Colgan, Omega '47
Erskine G. Donald, III, Mu '62
W. G. Donaldson, Epsilon '24
Reece J. Dunaway, Chi '43
Walter A. English, Epsilon '10
Earnest W. Fant, Upsilon '63
E. C. Gaston, Mu '23
Michael A. Gibbs, Mu '37
Willard F. Gray, Mu Hon. '34
E. A. Hassan, Jr., Epsilon '31
Carl P. Hesselbach, Mu '62
Tobin Humphrey, Theta Beta '64
J. Jay Jakosky, Zeta '20
James R. Kinzey, Upsilon '61

Ralph M. King, Zeta '25
George L. Klingaman, Epsilon '20
William M. Lewis, Founder, Gamma '09
Charles A. Lindsay, Epsilon '35
Reese E. Mallette, Mu '22
Henry J. Matchett, Alpha '13
Ralph A. McGoeey, Epsilon '27
Ray W. Morgan, Lambda '39
Carter E. Nelms, Chi '48
L. W. Neubauer, Alpha '26
Jack McK. Pardee, Gamma '36
E. N. Pennebaker, Epsilon '24
Marvin D. Petersen, Omega '40*
Ross M. Phillips, Epsilon '36
Robert E. Pope, Zeta '52
Simon Ramo, Lambda '33
Philip W. Schasker, Alpha '60
Lyle W. Smith, Alpha-Beta '24
Paul Meredith Speake, Mu '27
G. Keith Taylor, Gamma '23
Jay N. Thorpe, Lambda '37
A. H. Tousley, Delta '46
Herman W. Weddle, Epsilon '28
Max L. Williams, Jr., Nu '42
J. Harold Witherspoon, Mu '24

* Memorial Gift from the Pacific Northwest Alumni Association.

Comments from the Central Office

In October this year, members of the Fraternity attended events throughout the nation sponsored by Chapters and alumni groups in commemoration of Founders' Day. They gathered to pay tribute to the memory of Founder Erich J. Schrader, and to honor Founders Lewin L. Vinal, William M. Lewis, and Isaac B. Hanks, on the occasion of Theta Tau's Sixtieth Anniversary.

From this small group of four students in mining engineering at the University of Minnesota in 1904 has developed the Fraternity we know today with student engineers throughout the nation and professional engineers around the world among the 17,400 initiates representing every recognized branch of engineering and geology. Thanks to the vision, ability, and efforts of the Founders and other early members, the Fraternity has built on a firm foundation, realizing their expectation of a national professional fraternity—the oldest in the engineering field. Thanks to their continuing interest, and to the efforts of successive devoted and loyal initiates over the years, the Fraternity has grown and achieved its present stature as the largest in its field.

A review of Theta Tau's history indicates a record of growth at varying rates over the years as outside influences affected its progress. Theta Tau has been a fraternity making conservative advances, modifying its procedures and policies appropriately, and maturing with the years. It continues to be a dynamic, vital organization serving its members; and through them, serving their alma maters and the profession.

Perhaps because they are closer to mind, the changes made in the last decade seem particularly significant—among them, es-



tablishment of the posts of Regional Director, modification of our membership requirements, adoption of an active extension program, and consolidation of central office functions. But these are only part of the story. Remaining unchanged are the principles extolled in our Ritual, and the fraternal spirit which unites us as brothers in Theta Tau. To deserve the name, a fraternity must remain an organiza-

tion in which individual worth and bonds of brotherhood are recognized on a chapter and on a national level.

Membership in Theta Tau continues to enrich the lives of its members; and the distinguished careers of its long list of outstanding alumni have reflected credit on the Fraternity and on the ability of its active Chapters to select wisely those who would share in the bonds of the Fraternity.

Today, with expanding engineering enrollments, and with alumni assuming positions of responsibility in distant locations and in new and complex fields, there is a potential for membership in a fraternity such as Theta Tau to assume even greater value. That the members of all ages recognize this, is evidenced by the increased interest shown in participating in the affairs of the Fraternity. More are now making suggestions, cooperating in expanding the Fraternity and improving its existing units, and financially contributing to its progress than ever before. As those who belong continue to justify their selection as members of Theta Tau through their contributions of all kinds, continued progress of the Fraternity is assured. As the future unfolds, each of us may take greater pride in the Fraternity he has helped to build.

ROBERT E. POPE



Alumni News

Percy Z. Michener is Master Bridge Builder

Percy Z. Michener, Kappa '26, is chief engineer and project manager for the Chesapeake Bay Bridge-Tunnel, one of the most publicized of recent engineering achievements. The project has been named one of the seven engineering wonders of the modern world by the American Society of Civil Engineers. Brother Michener, who has been working on the project for eight continuous years, is employed by Sverdrup & Parcel, consulting engineering firm of St. Louis, Missouri. The design and supervision of the Bridge-Tunnel were handled by Sverdrup & Parcel.

When Brother Michener graduated from the University of Illinois in 1926, he joined the Division of Highways of the State of Illinois. He became assistant engineer of the Bureau of Bridges, beginning a lifetime of bridge building.

During World War II he served in the Corps of Engineers with the rank of colonel. His assignments included supervision of the "Canol" oil pipeline and refinery project in Northern Canada and Alaska. He later commanded port construction groups in the Southwest Pacific, including the rehabilitation of the port of Manila in the Philippines and new construction at Lingayen and Leyte.

Brother Michener joined Sverdrup & Parcel in 1946, and went to Saudi Arabia, where he was construction manager and assistant project manager for the company's engineering projects there. These included preliminary reconnaissance and field investigation for King Ibn Saud's railroad, reconnaissance and field investigation for new roads, plans and construction of the International Airport and Pilgrim Pier at Jidda, and preliminary field investigations



and reports for construction of one of the world's largest oil-loading piers at Kuwait near the head of the Persian Gulf.

In 1954 Brother Michener was in charge of reconnaissance, field investigation, and report for the construction of 300 kilometers of highway from Bangkok to Ban Phi for the Government of Thailand. Sverdrup & Parcel later prepared final plans and supervised the project.

Prior to the Chesapeake Bay project, Brother Michener was resident manager of Sverdrup & Parcel's office in Washington, D. C.

Brother Michener is a registered professional engineer in Illinois, Missouri, the District of Columbia, and Virginia, and is a member of NSPE. He is a Fellow of the ASCE, and is a member of Phi Kappa Tau, the Engineers Club of Hampton Roads, Virginia, and the Cosmos Club of Washington, D. C.

Campbell Soup Company is Headed by Murphy



William B. Murphy, Xi '28, has been president of Campbell Soup Company since 1953. He joined the firm in 1938 as assistant to the general manager.

Brother Murphy joined the A. C. Neilson Company of Chicago following his graduation from the University of Wisconsin with a B.S. degree in chemical engineering. He rose to the position of executive vice president of that firm.

During World War II, he was director of the Facilities Division of the War Production Board. His activities centered on ex-

pediting critical war material. President Truman awarded him the Medal of Merit for his services.

Brother Murphy was named assistant general manager when he returned to the Campbell Soup Company in 1945. He was elected executive vice president in 1949 and president in 1953.

He is a director of the American Telephone and Telegraph Company and of Merck and Company. He is a trustee of the Wisconsin Alumni Foundation, Massachusetts Institute of Technology, the University of Pennsylvania, the Nutrition Foundation, and the Academy of Natural Sciences of Philadelphia. In 1960 and 1961 he served as national chairman of the Radio Free Europe Fund. Brother Murphy is also a member of the Business Council (formerly Business Advisory Council).

In community affairs, Brother Murphy is cochairman of the Greater Camden Movement, a nonprofit organization formed to assist in the redevelopment, rehabilitation, and growth programs of the city. He also served as chairman of the Community Chest of Camden County in 1951, and as chairman of the Philadelphia Presbytery's Growth and Rehabilitation Fund Drive in 1958.

In 1954 Brother Murphy was awarded the degree of doctor of laws at Lawrence College; in 1960, the degree of doctor of humane letters at Pennsylvania Military College; and in 1963, the degree of doctor of laws at the University of Wisconsin.

Maxwell L. McCormack Advances with Ingersoll-Rand

Maxwell L. McCormack, Gamma '26, has been appointed executive vice president of Ingersoll-Rand Company, New York City.

He joined Ingersoll-Rand in 1926 as a trainee, and was assigned to the export department in 1927. He later worked as an engineering salesman in 1936, when he was transferred to the company's New York

headquarters in the Rock Drill Sales Department.

Brother McCormack was appointed manager of rock drill sales in 1942, and held that position until 1960, when he was placed on the executive staff of the company. In 1961 he was named vice president of Ingersoll-Rand.

Schuhmann Appointed to Distinguished Professorship

Prof. Reinhardt Schuhmann, Jr., Iota '33, has resigned as head of the Purdue University School of Metallurgical Engineering in order to devote full time to teaching and research. He had been head of the school since 1959. Brother Schuhmann has been appointed Ross Professor of Engineering at Purdue; this is one of eight distinguished professorships at the university.

Following his graduation from Missouri School of Mines, Brother Schuhmann received his M.S. degree at Montana School of Mines and his Sc.D. in metallurgy at MIT in 1938. During the war he worked in various government scientific activities, including the Manhattan atomic project.

In 1946 Brother Schuhmann became an associate professor at MIT. He went to

Purdue as a full professor in 1954. In 1959, when metallurgical engineering and chemical engineering were separated into two schools, Brother Schuhmann became the first head of metallurgical engineering.

Brother Schuhmann's special field of research in recent years has been the thermodynamics of high temperature metallurgical systems and the thermodynamics of irreversible processes. He is the author of *Metallurgical Engineering*, a standard text.

In 1959 he was corecipient of the Gold Medal of the Extractive Metallurgy Division of the AIME. In 1963 he was elected a charter Fellow of the Metallurgical Society of AIME. He also was first chairman of the society's education committee and is now a member of the board of directors.

Col. Nauman Retires from Army Corps of Engineers



Colonel Arthur C. Nauman, Kappa '34, retired on July 1, 1964, from the Army Corps of Engineers after more than 27 years of active service. He was chief, Joint Civil Defense Support Group, in the Office of the Army Chief of Engineers in Washington, D.C., at the time of his retirement.

Brother Nauman was commissioned a second lieutenant in the Coast Artillery Reserve in 1933 and entered the Army on ex-

tended active duty in 1941. As area engineer for the Seattle Engineer District in Spokane, Washington, he was in charge of construction of the Spokane Air Depot, Geiger Field, Baxter General Hospital, and the Fort George Wright expansion.

In World War II, Brother Nauman served in the South Pacific and Japan. He was commissioned in the Regular Army, Corps of Engineers, in 1946. Subsequent assignments took him to New Mexico and Alaska. He was commanding officer of the 925th Engineer Aviation Group in Alaska. He then served in the Office of the Secretary of Defense with the Military Liaison Committee to the Atomic Energy Commission in Washington, D.C.

Brother Nauman was district engineer, Detroit District, from 1953 to 1956. Three years of service followed in the Office of the Chief of Engineers, Washington, D.C., as an assistant chief of civil works. He served for one year in Korea as Deputy Engineer, 8th U. S. Army. From 1960 to 1963 he was Mediterranean division engineer for the Corps of Engineers.

Lustenberger is President of W. T. Grant



Louis C. Lustenberger, Nu '26, has been president of the W. T. Grant Company of New York City since 1959. The company is one of the nation's largest retailers.

Following his graduation from Carnegie Institute of Technology, Brother Lustenberger worked for the White Motor Company of Cleveland, Ohio; the American Rolling Mill Company of Middletown, Ohio; and the W. T. Grant Company. In 1932 he joined Montgomery Ward & Company of Chicago as an assistant in the Operating Department. In 1939 he was named

vice president and personnel director of that company, and in 1940 he became a member of the board of directors.

Brother Lustenberger rejoined the W. T. Grant Company in 1940 as vice president and assistant to the president. In 1941 he was also named director of personnel, and in 1948 he became executive vice president of the company. He was named a member of the board of directors in 1950, executive vice president and general manager in 1958, and president in 1959.

Brother Lustenberger is a member of the board of directors of Zeller's Ltd., Montreal, Canada; of the Household Finance Corporation of Chicago; of the Nylock Corporation of Paramus, New Jersey; of the Melville Shoe Corporation of New York City; and of the Novo Industrial Corporation of New York City. He is a member of the board of trustees of Carnegie Institute of Technology of Pittsburgh and of Skidmore College, Saratoga Springs, New York.

He is chairman of the board of the Institute of Distribution, an association of national non-food retail chain store companies. Brother Lustenberger is also a member of the board of directors of the Travelers Aid Society of New York City. His club memberships include the Union League and Weavers Club of New York City; the Scarsdale Golf Club; the National Republican Club; the Duquesne Club of Pittsburgh, Pennsylvania; the Naples Yacht Club of Naples Beach, Florida; and the Newcomer Society of North America.

Unique Firm is Founded by James J. Whitsett

James J. Whitsett, Sigma '42, is founder and managing director of the association management firm James Whitsett & Associates, Cleveland, Ohio. The firm acts as the national headquarters of associations, such as the Pipe Plug Producers Council and the American Nail Producers Council. Brother Whitsett organized and is secretary-treasurer of each of these associations. His

firm also handles projects such as safety, statistical, or marketing programs for independent associations.

Following his graduation from Ohio State, Brother Whitsett served four years in the Army Corps of Engineers. He now holds the rank of lieutenant colonel in the Army Reserve. After the war he practiced structural engineering for Eastman Kodak,

the Austin Company, and Arthur G. McKee and Company. He became assistant manager of the Control Department for McKee.

Brother Whitsett was introduced to association management by six years as secretary-treasurer of Industrial Fasteners Institute, an association of nut, bolt, rivet, and screw manufacturers. He attended six summer sessions of Institutes for Organization Management at Michigan State. *Association Management* recently published his article, "Developing an Effective Statistic."

Brother Whitsett is a registered professional engineer in Ohio and is a member of the American Society of Association Executives. He served as a deacon of his church for 11 years, and is a member of the City Club of Cleveland, the Cleveland Chamber of Commerce, and the Edgewater Yacht Club.



Monell Award Presented to Dr. Donald McLaughlin

Dr. Donald H. McLaughlin, Epsilon '14, has received Columbia University's Ambrose Monell Award for distinguished achievement in mineral technology. The award, which includes a medal and a prize of \$25,000, is given at special intervals. Brother McLaughlin is chairman of the board of Homestake Mining Company and vice president of San Luis Mining Company.

After receiving his B.S. degree from the University of California, he went to Harvard University, where he received the A.M. degree in 1915 and a Ph.D. in 1917. He served as a first lieutenant in the 63rd U. S. Infantry from 1917-1919, then worked as a geologist for six years with the Cerro de Pasco Copper Corporation in Peru.

Brother McLaughlin returned to Harvard as a professor of mining engineering in 1925. He later became chairman of the Division of Geological Sciences. In 1941 he returned to the University of California as a professor of mining engineering. He became dean of the College of Mining in 1941 and dean of the Col-

lege of Engineering in 1942.

His association with Homestake Mining Company was begun as a consulting geologist in 1926, and he became a consultant for the San Luis Mining Company in 1929. He has been a consultant to many other companies, and is a director of the International Nickel Company of Canada, Bunker Hill Company, Western Air Lines, American Trust Company, and United Nuclear Corporation.

Brother McLaughlin has been a regent of the University of California since 1951 and was chairman of the board, 1958 to 1960. He was a member of the National Science Board from 1950 to 1960, and served the Atomic Energy Commission from 1947 to 1952 as chairman of the Advisory Committee on Raw Materials. From 1959 to the present he has served as a member of the advisory committee of Flowshare Projects. He was chairman of the National Minerals Advisory Council from 1947 to 1949. He was a member of the Committee on Natural Resources of the Hoover Commission.

Brother McLaughlin is a member of the Geological Society of America and has been councillor; a member and past president of the Society of Economic Geologists; a member and past president of AIME; a member and past president of the Mining and Metallurgical Society of America; a member and past councillor of the American Academy of Arts and Sciences; a corresponding member of the Society of Ingenieros del Peru; an honorary member

of the Society Geology del Peru; and a director of the Harvard Alumni Association. In 1961 he was awarded the Rand Medal of the AIME.

His other memberships include Phi Beta Kappa, Sigma Xi, Tau Beta Pi, and Kappa Sigma. Brother McLaughlin has been awarded honorary degrees by the South Dakota School of Mines, Michigan College of Mines and Technology, Montana School of Mines, and Colorado School of Mines.

Founders' Memorial Fund Donors

Theta Tau acknowledges with gratitude the following contributions to the Founders' Memorial Fund:

Erasmus S. Borgquist, Lambda '11

* Earlier gift posthumously credited to this Fund.

Michael Keith Brown, Mu '63
Eastern Region of Theta Tau
E. Ralph Edgerton, Alpha '07*
Dent L. Lay, Gamma '35

Herbert Hoover on the Engineering Profession

"It is a great profession. There is the fascination of watching a figment of the imagination emerge through the aid of science to a plan on paper. Then it moves to realization in stone or metal or energy. Then it brings jobs and homes to man. Then it elevates the standards of living and adds to the comforts of life. That is the engineer's high privilege.

The great liability of the engineer compared to men of other professions is that his works are out in the open where all can see them. His acts, step by step, are in hard substance. He cannot bury his mistakes in the grave like the doctors. He cannot argue them into thin air or blame the judge like the lawyers. He cannot like the architects, cover his failures with trees and vines. He cannot, like the politicians, screen his shortcomings by blaming his opponents and

hope the people will forget. The engineers simply cannot deny he did it. If his works do not work, he is damned.

"On the other hand, unlike the doctor, his is not a life among the weak. Unlike the soldier destruction is not his purpose. Unlike the lawyer, quarrels are not his daily bread. To the engineer falls the job of clothing the bare bones of science with life, comfort and hope. No doubt as the years go by people forget which engineer did it, even if they ever knew. Or some politician puts his name on it. Or they credit it to some promoter who used other people's money. But the engineer himself looks back at the unending stream of goodness which flows from his successes with satisfactions that few professions may know. And the verdict of his fellow professionals is all the accolade he wants."

A story making the rounds in Washington says that Gen. Curtis E. LeMay, Sigma '29, Air Force Chief of Staff, stepped briskly into an elevator at the Pentagon one day and said "Tenth floor."

"But sir," said the operator, "this building has only eight floors."

"Well," said LeMay, "just do the best you can, son, just do the best you can."

In Memoriam

LUTHER J. BUCK, Gamma '20, died March 26, 1964, in Alton, Illinois. He retired in 1959 after a 35-year career with American Smelting and Refining Company. Brother Buck attended Case Institute in Cleveland, Ohio, before World War I, in which he served with the Coast Artillery. After the war he received his degree from Colorado School of Mines. He was employed by Anaconda Copper Company before he joined American Smelting and Refining Company as assistant superintendent in Federal, Illinois. He later became general superintendent, and in 1940, plant manager. Brother Buck was named to the Advisory Committee of the Illinois State Health Department in recognition of his work in dust control. He was a member of the board and treasurer of the Alton District Manufacturers Association from 1940 to 1959. He was also a member of AIME, Phi Delta Theta, and the Congregational Church. Golf and trapshooting were his hobbies. Brother Buck is survived by his wife, a son, a brother, a sister, and three grandchildren.

ROBERT STANLEY BURG, Iota '16, died March 15, 1964, in Los Angeles, California. He was a charter member of Iota Chapter, and a member of Tau Beta Pi and Pi Kappa Alpha. Brother Burg is survived by his wife.

LYOYD STUART CAMPBELL, Beta '35, died July 18, 1964, in Duluth, Minnesota.

VERNON J. COLLINS, M.D., Epsilon '26, died April 22, 1964, in Redding, California. Before becoming a physician, he was a geologist for Shell Oil Company. He was also a member of Theta Nu Epsilon.

DR. HENRY C. T. EGGER, Alpha Hon. '15, died June 17, 1964, in Minneapolis, Minnesota. For 39 years he was professor of mathematics in the College of Engineering of the University of Minnesota. He retired about six years ago. Brother Egger was the author of two textbooks used at the university. He was a member of Tau Beta Pi, ASEE, and Masonic organizations. Brother Egger is survived by his wife, a daughter, a son, six grandchildren, and two sisters.

JAMES M. FAIRCLOTH, Rho '28, died unexpectedly July 12, 1964. He was head of the Department of Civil Engineering at the University of Alabama, and was adviser to Mu Chapter for a number of years. After receiving his B.S. degree from North Carolina State, he went to the University of Alabama for his master's. In 1946 he became chairman of his department. During the 1952-53 academic year he was acting dean of the College of Engineering. Brother Faircloth was well known for his academic and civic work. He was an authority on land surveying and was active as a consultant. In 1961 the Tuscaloosa Rotary Club presented him its highest award for public service. He did free engineering survey work for a number of public projects. Brother Faircloth was a member of Tau Beta Pi, ASCE, the University Council, Christ Church Vestry, and many other organizations. He

was a past president of the Alabama Section of ASCE. His son, James M. Faircloth, Jr., is currently a Mu Chapter active. Brother Faircloth is also survived by his wife, four daughters, a sister, a brother, and four grandchildren. Theta Tau was represented at the funeral by Grand Regent Rey, Mu Regent John Daniel, and other Theta Tau actives and faculty members.

RICHARD ALEXANDER FERGUSON, Beta '38, died April 26, 1964, in Michigan City, Indiana.

DONALD DICKINSON FRASER, Beta '16, died December 26, 1963, in Vancouver, British Columbia.

ERNEST R. GRAHAM, Beta '06, died March 14, 1964, in Miami Lakes, Florida.

ALBERT W. HAPPY, Jr., Iota '32, died January 3, 1964, in Jefferson City, Missouri. He had been director of consultant services for the Missouri Health Department since 1956. Brother Happy was a graduate of Missouri School of Mines and received a master's degree in public health from Yale University. During World War II he served in the Navy in Africa and the Philippines, and was discharged in 1946 with the rank of commander. Brother Happy became associated with the Missouri State Highway Department in 1932, and went with the Health Department in 1940. He was a member of the Missouri Society of Professional Engineers, the American Public Health Association, the VFW, and Kappa Alpha Fraternity. He was a past president of the Jefferson City Engineers Club and of the Missouri Public Health Association. Brother Happy is survived by his wife and three sisters. A memorial scholarship fund at Missouri School of Mines has been established in his honor, with contributions being accepted by Harold Broegging, Iota '32.

OTTO HERRES, Gamma '11, died March 22, 1964, in Salt Lake City. He was a nationally known mining engineer. After graduation from Colorado School of Mines, Brother Herres began his career with the Utah Fuel Company. Later he joined United States Fuel Company, becoming vice president and general manager. He served as vice president of Combined Metals Reduction Company until his retirement in 1956. Brother Herres was chairman and one of the founders of the National Lead and Zinc Committee and a former president of the Utah Mining Association. He was once offered an appointment as director of the U. S. Bureau of Mines, but declined so that he could continue legislative appeals for the industry. During the Eisenhower administration, he was an adviser to the State Department at a meeting of the International Minerals Conference. Brother Herres was a pioneer in the development of titanium metal reduction and was one of the first to utilize oxygen tanks in mining rescue work. He was one of the first chairmen of the Utah section of the AIMMPE, and was a past president of the Utah Mining Association, the Utah Coal Operators Association, and the Rocky Mountain Coal Mining

THE GEAR OF THETA TAU

Institute. He also served as president of the Inter-mountain Alumni Association of Theta Tau, and was active in its affairs. In 1949 he received the Colorado School of Mines Distinguished Achievement Award. Brother Herres is survived by his wife; a son, Schuyler A. Herres, Gamma '39; a daughter; six grandchildren; a brother; and two sisters.

JOHN D. HILLER, *Chi* '37, died December 29, 1963, in Burlingame, California. Brother Hiller received his B.S. degree in mechanical engineering from the University of Arizona. After serving in the Navy as a lieutenant during World War II, he was employed by the Bechtel Corporation of San Francisco. His last position was supervising engineer. Brother Hiller is survived by a daughter.

ANDREW T. JACOBSEN, *Lambda* '24, died July 31, 1964, in Salt Lake City. He was a charter member of Lambda Chapter. For the past 12 years he had been director of research at the radiation project at Dugway, Utah, and he was assistant to the coordinator of cooperative research at the University of Utah. Brother Jacobsen was also a partner in the Gem Grocery and Meat Company, which was founded by his father. A veteran of World War I, he was an active member of the Latter-day Saints Church. He was a past president of the Salt Lake Retail Grocers Association and of the Utah Retail Grocers Association. Brother Jacobsen is survived by his wife, three daughters, 12 grandchildren, two brothers, and two sisters.

HARVEY E. KAPPAHIN, *Alpha* '19, died July 21, 1963, in Lansing, Michigan. After graduation from the University of Minnesota, he served in World War I. For eight years he was manager of the Rural Electric Cooperative at Sanit Ste. Marie, Michigan. Brother Kappahn had been with Michigan State University in rural electric cooperative work for the past 16 years. He was a member of Tau Beta Pi. Survivors include his wife, a son, two grandchildren, and a sister.

GEORGE W. MALONE, *Upsilon* '51, died September 13, 1964, in Schenectady, New York.

DALE R. McENARY, *Eta* '14, died February 27, 1964, in Tucson, Arizona. He was initiated by Alpha Chapter. Brother McEnary was a partner in the firm of McEnary and Kraft. He was a Fellow of the American Institute of Architects and a member of Alpha Delta Phi.

ROY W. McLEESE, *Lambda* '30, died October 12, 1963. He was also a member of Beta Theta Pi. Brother McLeese is survived by his wife.

BERTRAM M. McNAIR, *Beta* '12, died November 7, 1963.

J. OWEN MOCC, *Xi* '24, a charter member of Xi Chapter, died March 16, 1963. He was also a member of Delta Kappa Epsilon.

GEORGE H. MORGAN, *Beta* '08, died recently in Apple Valley, California. Brother Morgan graduated from the University of Michigan and Michigan School of Mines. He then went to New York, where he was associated with Dr. Walter Harvey

Weed, a mining engineer. During World War I he served in France, where he received a citation for bravery under fire and a commission as major in the Corps of Engineers. After the war he went to California, where he taught briefly at the University of California in Berkeley. He then became assistant manager of a real estate project at Palos Verdes Estates, where he stayed until his retirement. After retirement he built his own home from adobe brick in Apple Valley. Brother Morgan is survived by his wife.

MARVIN D. PETERSON, *Omega* '40, died May 30, 1964, in Seattle, Washington. Brother Peterson had been with the Boeing Company since 1941, and was senior group engineer with the Aero Space Division. He had been working on proposals for ground-to-air missile systems. He is survived by his wife and parents. The Pacific Northwest Alumni Association has made a donation to the Theta Tau general fund in Brother Peterson's memory.

L. FERN PETT, *Lambda* '22, died April 7, 1964, in Salt Lake City. He retired as general manager of the Utah Copper Division, Kennecott Copper Corporation, in 1958, and had been living in San Francisco. Brother Pett was a Navy radio operator in World War I. After graduation from the University of Utah, he joined Utah Copper in 1922 as a computer in the Engineering Department. Brother Pett had served as president of the Utah Mining Congress, of the Western Division of the American Mining Congress, and of the Utah Manufacturers Association. He had also served as chairman of the Salt Lake Area United Fund campaign and on the Salt Lake Council, Boy Scouts of America. He was a past president of the Inter-mountain Alumni Association of Theta Tau and was active in its affairs. Brother Pett was a member of the Bingham Lions Club, the Salt Lake City and Provo Chambers of Commerce, the Salt Lake Kiwanis Club, the AIME, and the Church of Jesus Christ of Latter-day Saints. He is survived by his wife, four sons, a daughter, four brothers, and three sisters.

HENRY CARTER REA, *Epsilon* '27, died December 9, 1963, in Albuquerque, New Mexico. He was a well-known geologist. Brother Rea spent his boyhood in Cuba, the Philippines, and China; his father was owner and publisher of an international magazine, *Far Eastern Review*. During World War I he served for two years in the Navy, much of the time in active combat duty. After his graduation from the University of California at Berkeley, he spent his early professional career with such oil companies as Shell, Standard of California, British American, Seaboard, and Bny. He worked in the United States and Canada and in many foreign countries, particularly in the Far East. Brother Rea is famous for coining the term "photogeology," and was an expert in its usage. In addition to oil geology, he was a specialist on soils, and at the time of his death, he was working on building materials. He taught night classes at Ventura, California, and gave guest lectures to students at the University of New Mexico. Brother Rea was a life member of AAPG. He was active in the Foreign Affairs Committee at Denver and Albuquerque

and participated in the University of Denver Social Science Seminars on Ethics and Foreign Policy. He was a Mason and was listed in *Who's Who in the West*. Brother Rea is survived by his wife, a daughter, two grandchildren, and a sister. (From an AAFG Memorial)

EDWIN T. REIDER, *Kappa '30*, died in February 1963, in Miami, Florida. He is survived by his wife.

S. GORDON SAUNDERS, *Zeta '22*, died February 25, 1964, in Bloomfield Hills, Michigan. He was president of Northwest Sales, Inc., and regional manager of Bay State Abrasives Company. Brother Saunders went to Detroit in 1926 to establish a branch of the Cook Paint & Varnish Company of Kansas City. Later he became director of paint research for Chrysler Corporation, and from 1940 to 1953 he was manager of Chrysler's Cycleweld Division. Brother Saunders was widely known as a pianist and sportsman. He was a member of the Society of Automotive Engineers, St. Dunstan's Guild, and Sigma Chi Fraternity. Survivors include his wife, three sons, and seven grandchildren.

HARRY J. SCHIERMEYER, *Sig. Iota '23*, died June 6, 1964, in Edwardsville, Illinois. He was retired from the Illinois Division of Highways. Brother Schiermeyer is survived by his wife and a son.

FRED J. SCHMITT, *Iota '32*, died February 9, 1964, in La Grange, Illinois. He was director of marketing research for the D. A. Stuart Oil Company, Chicago, Illinois. Brother Schmitt was also a member of Kappa Sigma. He is survived by his wife, a son, and a daughter.

CHARLES C. TEVIS, *Iota '23*, died February 17, 1964, in Jefferson City, Missouri. He retired in 1961 as an engineer for the Missouri State Highway Department, and since that time had been employed as a consulting engineer. During his 38 years with the Highway Department, he served as a district engineer and as chief of the Division of Construction in the highway headquarters at Jefferson City. He was chief of the Division of Plans and Surveys when he retired. Brother Tevis is survived by his wife and a daughter.

DR. V. LAWRENCE VANDERHOOF, *Epsilon '28*, died March 10, 1964, in Santa Barbara, California. He

was director of the Santa Barbara Museum of Natural History, but resigned last year because of ill health. He had taught at Stanford University and the University of California at Berkeley. During World War II he worked on the Manhattan Project, and at one time he was a research geologist for the Intex Oil Company of Bakersfield. Brother Vanderhoof was a Fellow of the Geological Society of America, the Society of Vertebrate Paleontologists, the AAFG, and was a Fellow of the Geological Society of Great Britain.

ROBERT O. VAN FLEET, *Epsilon '32*, died April 14, 1962. He was employed by Blanco Oil Company of San Antonio, Texas. Brother Van Fleet is survived by his wife.

EVAN W. VAUGHAN, *Delta '30*, died April 6, 1964. He was associate and chief hydraulic and sanitary engineer of Parsons, Brinckerhoff, Quade and Douglas, New York City. Brother Vaughan was an instructor at Case for two years and received his M.S. degree in civil engineering in 1933. He was head of the Soils Mechanics Section of the Tennessee Valley Authority and later served in a similar capacity on the Panama Canal. In 1955 he joined Parsons, Brinckerhoff, Quade and Douglas. Brother Vaughan was also a member of Sigma Nu and Tau Beta Pi.

JOSEPH EARL WALSMITH, *Phi '29*, a charter member of his Chapter, died July 4, 1964, in Indianapolis, Indiana. Following his graduation from Purdue, he was employed by Indiana Bell Telephone Company in the Construction Department. In 1941 he entered the Signal Corps as a first lieutenant, and was discharged in 1945 as a lieutenant colonel. In June Brother Walsmith completed 35 years with Indiana Bell as a facilities engineer in plant engineering. He was a member of the Indiana Professional Engineers. Brother Walsmith is survived by his wife, three sons, and a daughter.

FREDERICK D. WEEKS, *Tau '37*, died December 12, 1962, in Syracuse, New York. At one time he was associated with the Norwich Pharmaceutical Company and served on the Norwich, New York, City Council. Later he moved to Syracuse where he was employed first by General Motors and then by the State of New York. Brother Weeks is survived by his wife, a son, a daughter, his mother, and a sister.

25 and 50 Years Ago in Theta Tau

25 YEARS AGO

The Fourteenth Biennial Convention was held in Chicago.

Seven alumni in South America celebrated Founders' Day with a dinner.

Alpha Chapter held its annual canoe trip.

The Kansas City Alumni Association was chartered.

(From the Fall 1939 Gear)

50 YEARS AGO

Erich J. Schrader reviewed the history of the Fraternity on its Tenth Anniversary. Steady growth had resulted in eight Chapters and four Alumni Associations, all composed of "men, real men."

Delta Chapter had moved into its first house.

Alpha Chapter contributed a "camel" to the University Circus.

(From the 1914 Gear)

Alumni Notes

ALPHA CHAPTER

WALTER H. WHEELER, '00, is a structural and consulting engineer in Minneapolis. He specializes in bridges, buildings, industrial plants, grain elevators, etc. He has practiced engineering in Minneapolis since 1912, previously working in Colorado and New Mexico. Brother Wheeler is a registered professional engineer and a Fellow of the ASCE. He is listed in *Who's Who in America* and *Who's Who in Engineering*. He has been awarded "the Outstanding Achievement Award with gold medal" by the University of Minnesota and the Award of Merit of the Daughters of the American Revolution. Brother Wheeler was a member of the first class initiated by the Founders of Alpha Chapter in 1905.

MAURICE W. HEWETT, '13, has retired after 40 years of service in the Department of Public Works of St. Paul, Minnesota. He joined the department in 1923, after service in World War I, teaching at the University of Minnesota, and consulting and contracting work. Brother Hewett's work for the City of St. Paul has covered almost all phases of its engineering activity—hydraulic and structural design, traffic control, bridges, etc. Brother Hewett now lives in Richmond, Virginia.

DR. L. W. NEUBAUER, '26, is professor of agricultural and civic engineering at the University of California at Davis.

DR. L. V. BERKNER, '27, is the author of a new book, *The Scientific Age: The Impact of Science on Society*, published by the Yale Press. Brother Berkner is president of the Graduate Research Center of the Southwest in Dallas, Texas.

LT. COL. MIRZA F. GREGG, '33, is an aeronautical engineer at headquarters of the Air Force Systems Command's Space Systems Division in Los Angeles.

PHILIP W. SCHASKEP, '60, married Miss Metci Lucille Martin on June 15, 1963, in Seattle.

DAVID G. BARRY, '61, was married in April 1964 to Marian Sutherland of Minneapolis, Minnesota. He is employed by General Dynamics at Fort Worth, Texas, and is living in Arlington, Texas.

G. M. SCHAFFAU, '62, has been transferred by IBM from Rochester, Minnesota, to Huntsville, Alabama, to work on the Apollo Moon Shot, Federal System Division.

BETA CHAPTER

FRED GIBBS, '14, was an independent leaser and operator of mining properties and did mine examination work for various companies throughout the West until his retirement a few years ago. He makes his home in Prescott, Arizona.

PAUL E. HINCKLEY, '14, retired in 1963 as president and chairman of the board of the Hinckley Agency, Detroit.

RALPH A. LOVELAND, '14, retired in 1954 with the rank of major general in the Michigan National Guard. He lives in Ann Arbor, Michigan.

HAROLD F. MILLS, '14, lives in Santa Barbara, California. In 1938, as general manager, he began developing the Iron King Mine near Prescott, Arizona, later owned by the Shattuck Denn Mining Corporation.

CHARLES J. RASHLEIGH, '14, was treasurer of the Calmar Steamship Company, a subsidiary of Bethlehem Steel Corporation, for 30 years prior to his retirement in 1961. He lives in Baltimore.

GEORGE F. SCHREIBER, '14, spent many years as a mining engineer in Colorado. He is retired now and lives in Denver.

RALPH B. WIGGINS, '14, worked as a mining engineer in several countries of South America and the Belgian Congo. Since his retirement in 1949 he has traveled widely. His home is in St. Petersburg, Florida.

JOSEPH B. WILKINSON, '14, retired in 1959 as manager of the Berrien County Tax Description Office. St. Joseph, Michigan is his hometown.

DR. J. B. VAN PELT, '22, president of Michigan Tech, participated in a 13-day, 13,000-mile Air Force inspection tour of the Arctic in July. He and other educators visited facilities in Newfoundland, Greenland, and Alaska.

LYLE W. SMITH, '24, is a senior engineer with Southern Services, Inc., of Birmingham, Alabama.

CHARLES MERRELL BAKER, '33, is now employed by Borg-Warner International. His first assignment is Apollo-Ingersoll, Medellin, Colombia, S. A.

JOHN A. ROBERTSON, '56, is an engineer with Western Electric. In January he was transferred from White Sands Missile Base, New Mexico, to Bonn, Germany. With his wife and two children, he is living in Bad Godesburg, a suburb of Bonn. Brother Robertson is supervising the installation of high frequency radar.

HENRY C. HAASE, '64, is a management trainee with United States Steel in Gary, Indiana.

GAMMA CHAPTER

WILLIAM MURRAY LEWIS, '09, represented Theta Tau at the inauguration of William Walsh Hagerty as the seventh president of Drexel Institute of Technology, Philadelphia, Pennsylvania, on May 12, 1964. Founder Lewis joined with numerous other representatives of professional societies and educational institutions in marking the occasion. He reports that he particularly enjoyed the banquet preceding the program, and that the ceremonies were most impressive, with many distinguished persons present.

CHARLES E. DYER, SR., '10, celebrated his Golden Wedding Anniversary on March 12, 1964.

ALAN KINCOCK, '12, is a consulting mining engineer with headquarters in New York City. His current job is in British Columbia, Canada.

JOHN ROBERTSON, '22, is a weapon systems analyst with the Chemical-Biological-Radiological Agency, Fort McClellan, Alabama.

LUTE J. PARKINSON, '23, has written a book, *Memoirs of African Mining*, which is available through the Colorado School of Mines. He is retired as head of the Mining Engineering Department at the school.

JACK COOLBAUGH, '31, is in Bulawayo, Southern Rhodesia.

C. D. KERR, '30, has retired as Oklahoma City District production superintendent for Pan American Petroleum Corporation, after 30 years with the company. While in Kansas, he served on the Oil Advisory Committee for two governors. He is a member of the Oklahoma City Petroleum Club, the American Petroleum Institute, Masonic Lodge, and Kappa Sigma.

GEORGE H. FLAYTER, '30, is assistant manager, Selby Plant, American Smelting and Refining Company, in Berkeley, California.

M. E. VOLIN, '33, director of the Institute of Mineral Research in Houghton, was elected a director-at-large of the Michigan Good Roads Federation, an organization that works cooperatively with the State Highway Department and other groups.

JOSEPH B. KENNEDY, JR., '35, was one of eight alumni receiving Distinguished Achievement Medals at the Commencement of Colorado School of Mines. He is president of Sinclair Oil & Gas Company, and was recently elected a director of the National Bank of Tulsa.

DENT L. LAY, '35, is a planning scientist with Lockheed Missile and Space Company, Sunnyvale, California.

JACK MCK. PARDEE, '36, is a mining engineer with the U.S. Forest Service in Phoenix, Arizona.

ALLEN S. CROWLEY, '39, has the sub-contract on the upper dam or pumped storage project of the Cabin Creek Project for Public Service Corporation of Colorado. His address is Georgetown, Colorado.

JOHN C. COWAN, '49, is a production engineer for Richfield Oil Corporation in Bakersfield, California.

JACK A. RAMSBELL, '49, has been transferred by Continental Oil Company from Jackson, Mississippi, to New York as senior staff geophysicist, International Exploration Department. He was division geophysicist in Jackson.



ROBERT B. STECK, '57, joined Multi-Amp Corporation, Cranford, New Jersey, on May 1 as assistant to the president. He has since been elected treasurer and a member of the board of directors. Brother Steck was previously assistant to the manager of advanced development and planning at Westinghouse Atomic Power Division. He has also worked for National Lead Company of Ohio and Titanium Metals Corporation of America. He is a graduate of Rutgers University, Western Reserve University, Colorado School of Mines, and Miami University, and was on the staff of Smith College. Brother Steck lives in Belmar, New Jersey.

DELTA CHAPTER

CECILE P. FAUREL, '22, retired in June 1964.

LAWRENCE B. RATL, '28, is a construction inspector for the University of California at Irvine.

HARRY W. SMITH, JR., '29, has moved his firm, Harry W. Smith Incorporated, to the Pan Am Building in New York. The firm devotes itself to depth technical contributions to the business and professional press. The company was formed in 1947, and serves the sales and engineering departments of 13 U. S. industrial firms.

ROE E. WITHROW, '34, has been appointed vice president of Dow Chemical International at Midland, Michigan. He had been treasurer since 1961. Brother Withrow worked in research and design for Dow until 1948, when he was transferred to the accounting department. In 1959 he was appointed assistant to the president of Dow Chemical International.

NYAL W. DEEMAN, '41, is city manager of Marshall, Michigan.

LOUIS K. ACHESON, JR., '46, is a senior scientist for Hughes Aircraft Company, Culver City, California.

A. H. TOUSLEY, '46, is a project engineer for Kaiser Engineers, Oakland, California.

B. F. AVERY, '48, is employed in the Large Lamp Department of General Electric Company in New York City.

JAMES H. JENSEN, '48, a senior specialist in residential lighting at the Large Lamp Department of General Electric's Lamp Division in Cleveland, received one of the 1963 Cordier Awards presented by the company.

RUSSELL D. CHURCHILL, '49, received a Cordier Award from the General Electric Company in

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1963. He is a specialist in fluorescents, mercury lamps, and accessories in the Large Lamp Department of the company.



THE REVEREND GERALD F. CAVANAGH, S.J., '53, was ordained a priest on June 18 in Clarkston, Michigan. He has completed three years of theological studies at West Baden College, a division of Loyola University, and will spend his final year of theological studies at the new seminary at Loyola. After working for a short time with the Cleveland Pneumatic Tool Company, he entered the Society of Jesus at Milford, Ohio. He

then went to St. Louis University, where he received master's degrees in business and education in 1958. He taught physics and mathematics at Loyola Academy for two years before entering theological seminary.

RUSSELL J. WARREN, '60, was married on June 6, 1964, to Doris Kenyves. The couple lives in Euclid, Ohio; he is employed by Ernst & Ernst in Cleveland.

JAMES F. RYBAK, '63, is employed as a staff member by Sandia Corporation, and is working on his master's degree at the University of New Mexico.

EPSILON CHAPTER

EDWARD WESSER, '17, is a consulting mining geologist in Garden Valley, California.

GEORGE L. KLINGAMAN, '20, retired in 1963 as an engineer for Standard Oil Company of California.

JAMES B. CHAMBERLAIN, '24, was retired by Aluminum Company of America January 1, 1964, after 22 years of foundry metallurgical work at Alcoa's Verdun, California works. His earlier professional activities included tin and tungsten mining in Bolivia, gold dredging in Alaska, and base metal mining in Montana and California. Brother Chamberlain now plans to devote most of his time to San Gabriel Valley real estate.

W. G. DONALDSON, '24, is a consulting geologist in Berkeley, California.

E. N. FENNERBAKER, '24, is a consulting geologist in Scottsdale, Arizona.

WILLIAM HENRY COREY, '27, is an independent consulting exploration oil geologist in Woodland Hills, California. He previously was with Continental Oil Company.

RALPH A. MCGOY, '27, is a self-employed oil production-petroleum engineer in Bakersfield, California.

HERMAN W. WEDGE, '28, has retired as a geologist for Standard Oil Company of California.

ROBERT R. COATS, '31, is a research geologist with the U. S. Geological Survey, Menlo Park, California.

E. A. HASSAN, JR., '31, is manager of resources for Kaiser Aluminum and Chemical Corporation, Oakland, California.

ARTHUR WESSNER, JR., '33, for the past four years has been head of the Mechanical Shops Department, Lawrence Radiation Laboratory of the University of California at Livermore. Prior to the moratorium on nuclear testing, he spent the majority of his time on field testing as head of mechanical engineering support for the laboratory in the Marshall Islands and at the Nevada test site.

CHARLES A. LINDEAY, '35, is president of American Urethane Inc., and vice president of Stauffer Chemical Company in Los Angeles, California.

ROSS MARVIN PHILLIPS, '36, is a consulting geologist and petroleum engineer in Corona del Mar, California.

JAMES D. HUNTON, JR., '39, is a self-employed farmer in Imperial, California.

DAVID A. ROWLAND, '51, is division reservoir engineer for Tidewater Oil Company in Los Angeles.

HAROLD V. HOFFMAN, '57, is a physicist at Stanford Research Institute, Menlo Park, California. JOHN Q. SIMS, '58, is an assistant engineering geologist for the State of California, Department of Water Resources. He is doing geology related to the design and construction of Oroville Dam.

CAPT. JAMES A. TAYLOR, '59, graduated in April from the Air Force's Squadron Officer School at the Air University at Maxwell AFB, Alabama. He also completed the Air Force Survival and Special Training School at Stead AFB, Nevada. Brother Taylor was reassigned to a SAC unit at Plattsburgh AFB, New York.

P. ANTHONY PRICE, '62, is attending the Harvard Business School in Boston, Massachusetts.

ZETA CHAPTER

ALBERT H. MANGELDORF, '12, received a Fifty-Year pin of the Gold Medal Club of K.U. at the June commencement.

CHARLES M. COATS, '13, is self-employed in oil and gas leasing in Fort Smith, Arkansas.

DR. J. JAY JAKOSKY, '20, is president of the Electrophysics Corporation. He lives in Newport Beach, California.

JOHN BUNN, '21, has been chosen executive director of the U. S. Basketball Federation. The Federation is an organized rebellion against AAU management of sports.

FOSTER MYERS, '21, retired April 1, 1964, from the Gas Engineering Department of the Cincinnati Gas and Electric Company. He has moved to Hutchinson, Kansas.

WALDO G. BOWMAN, '23, has been appointed Engineering Joint Council representative to the U. S. National Commission for UNESCO. The commission is an official advisory body established by Congress. Brother Bowman is chief editor of *Engineering News-Record*.

RALPH M. KING, '25, is executive vice president of Laydo-Arkansas Company in Stuttgart, Arkansas.

CHARLES E. SPAHR, '34, received a Citation for Distinguished Service at the June commencement of the University of Kansas. He has also been elected vice president of the K.U. Alumni Association Board of Directors for the coming year.

ELMER L. DOUGHERTY, '50, is the 1964 Cedric K. Ferguson Medalist of the AIME. The medal is presented annually to the author of the best petroleum technical paper published in the preceding year which was prepared by an AIME member under 33 years of age. Brother Dougherty is a senior staff mathematician at Standard Oil Company of California's Electronic Computer Center in San Francisco. He also serves as a lecturer in petroleum engineering at Stanford and the University of California at Berkeley.

GEORGE R. McNEEM, '31, was recently elected mayor of Winfield, Kansas. He is a consulting geological engineer in petroleum. His family includes three sons and a daughter.

LEROY W. FELTZEN, '56, was transferred in February to Wichita as division plant personnel supervisor for Southwestern Bell Telephone Company. He previously was in St. Louis as facilities engineer and repair foreman.

WILLIAM E. FRANKLIN, '57, is enrolled in the Kinnert Graduate School of Industrial Administration at Purdue University, West Lafayette, Indiana. He expects to receive his M.S. in August 1965.

DR. JOHN M. DEALY, '58, is teaching in the Chemical Engineering Department of McGill University, Montreal, Quebec, Canada. In August he married Miss Jacqueline Dery in Ann Arbor, Michigan.

DR. GEORGE G. DODD, '60, received his doctorate in electrical engineering at the University of Illinois in June. He is employed in the Computer Technology Department at the General Motors Research Center, Warren, Michigan.

WILLIAM C. FISHER, JR., '61, is now employed as a senior engineer in the Power Plant Engineering Department at the T.W.A. Overhaul Base in Kansas City, Missouri. He previously worked for Pratt and Whitney Aircraft in Connecticut.

THETA CHAPTER

THEODORE BARRETT, '14, took part in his class reunion during Columbia's commencement in June.

FELIX E. WOODS, '16, is chairman of the Columbia Engineering Council.



CAVIN K. MACBAIN, '32, was awarded the Alumni Medal of the Columbia University Alumni Federation during the June commencement ceremonies. He is president and chairman of the board of Gristede Bros., Inc. He is a director of the Northern Westchester National Bank, Union Square Savings Bank, and

First Federal Savings & Loan Association.

WELDON S. BOOTH, '40, was a recipient of the 1964 Alumni Medal given by the Alumni Federation at Columbia's June commencement. He is president of Coakley and Booth, Inc., a heavy construction company.

DONALD D. MACLAREN, '45, was awarded the Alumni Medal of Columbia University during the June commencement ceremonies. Brother MacLaren is president of Theta Tau's Metropolitan New York Alumni Association.

PETER B. SHEHDAN, '49, has joined International Protected Metals of South Plainfield, New Jersey, as sales manager. The firm manufactures plastic lined aluminum pipe for corrosive services.

CHARLES BOUDAKIAN, '50, is product manager, military power equipment, American Electronics Inc. of Fullerton, California.

RUDOLPH J. THODEN, '55, is returning to Aramco's New York office on a rotational assignment after four and one-half years in Saudi Arabia.

CAPT. JOSEPH A. PARKER, JR., '57, has graduated with honors from the training course for Air Force missile and nuclear transportation safety specialists at Sheppard AFB, Texas. He has been assigned to a MATS unit at Travis AFB, California.

IOTA CHAPTER

JOSEPH C. BARTON, '17, seeks oil and mineral reserves, both U. S. and foreign. He has worked from Tucson, Arizona, since 1953.

PHILIP L. BLAKE, '24, is retired and living in Richmond, California.

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WALTER F. BREUER, '37, is now head of the Structures Section, Technical Engineering Branch, Missouri River Division of the Corps of Engineers. He is just completing 25 years with the Corps.

KEITH E. SHORT, '49, is in the Engineering Department of the American Oil Company, Wood River Refinery, Wood River, Illinois.

DAVID GOULD, '51, was quoted in *Fortune's* series, "The Young Executives," October 1964. He is an executive with Caterpillar Tractor Company.

THOMAS B. FULLER, '54, is staff industrial engineer for Western Mining Divisions, Kennecott Copper Corporation, Salt Lake City. He lives in Sandy, Utah, where his family includes three daughters and one son.

LT. BYRL J. ENGEL, '62, is with the Seventh U. S. Army in Germany. He is a sanitary engineer in the 455th Preventive Medicine Unit near Stuttgart.

KAPPA CHAPTER

ROBERT S. CANNON, '26, expected to retire in October after 34 years' service with Standard Oil Company of New Jersey and associated companies. He was in Genoa, Italy, and expected to go to Atlanta, Georgia.

ED. W. GIFFORD, '28, moderated a forum on "Sorbents and Sorbent Dehumidification" at the annual meeting of the American Society of Heating, Refrigerating, and Air Conditioning Engineers at Cleveland in June. He will chair a symposium on the same subject at the semiannual meeting in Chicago in January.

J. E. DARE, '31, is president of the Chicago & Illinois Midland Railway Company, Springfield, Illinois.

HAL H. STOLLELE, '31, is plant manager of the Plain Butadiene Plant for Phillips Petroleum Company in Borger, Texas.

A. W. KOWITZ, '32, was awarded a 30-year certificate for services in the Department of Agriculture, U. S. Soil Conservation Service. He has been state conservation engineer for the USSCS in Wisconsin since 1954. In July 1961 Brother Kowitz was placed in retired status of the Organized Reserves (Lt. Col., CE).

JOHN R. WEBB, '32, is president of Webb and Compton, Inc., Acoustical Engineers and Contractors, in East Milton, Massachusetts.

WILLIAM F. BARNER, '34, is a systems engineer for the Boeing Company on the Saturn Program in Huntsville, Alabama.

CHARLES S. MONNIER, '38, has been in Springfield, Illinois, since 1957 as division engineer for the federal-aid highway program in Illinois. They have over 1,500 miles of the interstate system—one of the larger programs among the states.

LAMBDA CHAPTER

PROF. ERASMUS S. BORGQUIST, HON. '11, is professor emeritus in civil engineering at the University of Arizona. He is living in Long Beach, California. Brother Borgquist served as Chi Chapter adviser for 19 years.

J. D. FORRESTER, '28, is dean of the College of Mines and director of the Arizona Bureau of Mines at the University of Arizona at Tucson.

RAY W. MORGAN, '39, is in industrial sales for General Electric Company in Tucson, Arizona.

DR. FREDERICK D. COURTNER, '41, was awarded a Ph.D. by the University of North Carolina in June this year. He has been appointed dean of student affairs by Newberry College at Newberry, South Carolina.

BLESS L. DIAMOND, '59, married Miss Lorraine J. Scolaro in Lexington, Massachusetts, on May 9. Brother Diamond received his master's degree in electrical engineering at MIT, and is presently employed as an electrical engineer at the MIT Lincoln Laboratory.

MU CHAPTER

E. C. GASTON, '23, is president of Southern Services, Inc. in Birmingham, Alabama.

R. H. HARRIS, '23, is vice president for electric operations of Alabama Power Company in Birmingham.

J. HAROLD WITHERSPOON, '24, is chief engineer for the Central Foundry Company, Tuscaloosa, Alabama.

PAUL MEREDITH SPEAKE, '27, is a partner in the firm of Davis, Speake & Thrasher, Architects, in Birmingham, Alabama.

PROF. WILLARD F. GRAY, HON. '34, is professor of electrical engineering at the University of Alabama.

W. F. COBB, JR., '39, is president of Bankhead Mining Company, Inc. in Jasper, Alabama.

A. E. (WHITKY) BLANCIAC, '45, is a member of the technical staff of the Systems Department of the Spacecraft Engineering Subdivision of Aerospace Corporation, El Segundo, California. He recently visited his alma mater with his wife and four children.

LT. COL. GEORGE E. HOMICH, '47, is now director of supply and services for the 2nd Air Division at Tinker Air Force Base, Oklahoma.

WALTER E. DEMILLER, JR., '48, is quality service manager with Scott Paper Company, Mobile, Alabama. He is married and has three children.

ROBERT W. MCKENZIE, '48, is sales representative for the Wolverine Tube Company, Birmingham, Alabama.

ROBERT L. TAYLOR, '48, is chief engineer, Lano Department, for United States Steel's Fairfield, Alabama Works.

WILLIAM D. MURPHY, '50, is scientific assistant to the director, Aero-Astrodynamics Laboratory, at Marshall Space Flight Center, Huntsville, Alabama.

MICHAEL A. GIBBS, '57, is now a management consultant for Booz Allen & Hamilton in New York City.

CAPT. CHARLES K. BEAUCHAMPE, '58, graduated in August from the Air Force's Squadron Officer School at the Air University, Maxwell AFB, Alabama. He was reassigned to Charleston AFB, South Carolina.

JAMES SWEENEY, '58, graduated from the Air Force Air University in March 1964, and returned to Kirtland AFB, New Mexico, where he is employed as a weapon system project engineer at the Air Force Weapons Laboratory. He has been in his present position since February 1962.

DANE O. LOWREY, '61, is a project engineer, RF systems design, for NASA at the Marshall Space Flight Center, Huntsville, Alabama.

ERSKINE G. DONALD, III, '62, is a test engineer at the Marshall Space Flight Center, Huntsville, Alabama.

CARL F. HESSELBACH, '62, is a statistical analyst for Ford Motor Company, Dearborn, Michigan.

MICHAEL KEITH BROWN, '63, received his M.S.I.E. degree from the University of Alabama in August 1964. He is now an instructor in the Department of Industrial Engineering at the university.

ROBERT W. KEMBRUGH, '63, is an electrical test engineer for Brown Engineering Company, Inc. at Huntsville, Alabama.

WILLIAM M. LAMPKIN, '63, is a graduate student in engineering at the University of Alabama.

LT. ERNEST B. LONGMIRE, JR., '63, has graduated from flight training at Craig AFB, Alabama. He has been assigned to George AFB, California, for duty.

LT. ALVIN D. MOORE, '63, has graduated from flight training at Laughlin AFB, Texas. He has been assigned to flying duty at Hickam AFB, Hawaii.

NU CHAPTER

THOMAS E. BURNS, '48, is an application engineer for Bird Machine Company, Walnut Creek, California.

DR. MAX L. WILLIAMS, JR., '42, is professor of aeronautics at California Institute of Technology, Pasadena, California.

ROBERT C. SYDAKA, JR., '47, has been appointed general manager, Refractories and Electronics Division, for the Carborundum Company, Niagara Falls, New York.

XI CHAPTER

THEODORE C. RYNDA, '48, has been appointed to the position of consultant, Navigation and Guidance Division, Air Force Avionics Laboratory, Wright Patterson AFB, Ohio.

LT. JOHN R. IMHOF, '63, has entered Air Force navigator training at James Connally AFB, Texas.

OMICRON CHAPTER

KENNETH D. WILSON, '54, is plant manager for the Baker Manufacturing Company, Hartselle, Alabama.

WILLIAM G. MACQUEE, '58, has joined Zeni & Maguire Company, Mechanical Contractors, in Farmington, Michigan. He is a registered professional mechanical engineer in Ohio and Michigan.

PI CHAPTER

THEODORE B. EDWARDS, '24, has added another patent to a long list at the U. S. Army Mobility Command's Engineer Research and Development Laboratories, Fort Belvoir, Virginia. The latest is a "Plural Generator Fed Motor Control System."

MILTON L. GRIGG, '29, a city planner and church architect, has been elected to a second one-year term as president of the Church Architectural Guild of America. Among Brother Grigg's achievements are the American Embassy complex in Canberra, Australia; city planning projects in Hamilton, New Jersey; and historic restorations which include Monticello, home of Thomas Jefferson.

ROBERT E. LEE, '29, has been elected to the board of directors of the Associated General Contractors of America, Inc. He is president and co-founder of R. E. Lee & Son, Inc., Charlottesville, Virginia. Brother Lee serves on the boards of directors of the Virginia Engineering Foundation and the Virginia Foundation for Architectural Education. He is a member of the Charlottesville City Council.

DR. LAWRENCE R. QUARLES, '29, dean of the University of Virginia's School of Engineering and Applied Science, has been named chairman of the Southern Interstate Nuclear Board.

CHARLES W. ASHBY, '42, is owner of the Chas. W. Ashby Company, Birmingham, Alabama.

V. A. SHENNER, JR., '47, is a planning engineer, Richmond District, Virginia Electric and Power Company. He is the father of a son, Steven Parsley, born March 18, 1964.

THE GEAR OF THETA TAU

ROBERT A. MOORE, JR., '59, has been with the Union Bag-Camp Paper Corporation in Franklin, Virginia, since graduation. He began as a process engineer and has been promoted to his present position of assistant superintendent of a 700-ton per day paper mill. His family includes two daughters and two sons.

CARTER YEATMAN, '64, is an aerospace technologist at the Manned Spacecraft Center, Houston, Texas.

RHO CHAPTER

JAMES A. LOWE, '54, is now district sales engineer for Sylvania Lighting Products, Charlotte, North Carolina. Previously he was area manager for Western Waterproofing.

CAPT. JACK L. FLOWERS, '55, has been decorated with the U. S. Air Force Commendation Medal at Vandenberg AFB, California. He was awarded the medal for meritorious service as a project officer with the 6595th Aerospace Test Wing at Vandenberg.

CAPT. ROBERT E. JOBE, '57, has arrived for duty with a unit of the Pacific Air Forces at Osan AFB, Korea. He previously served at Laredo AFB, Texas.

LT. ANTS KOPPEL, '64, has entered Air Force navigator training at James Connally AFB, Texas.

SIGMA CHAPTER

HAROLD A. BOLZ, Hon., dean of the College of Engineering at Ohio State University, was awarded an honorary doctor of engineering degree by Purdue University at the June commencement. He was a member of the Purdue faculty from 1938-54.

THOMAS D. SINGER, '63, is a quality engineer for the Boeing Company, Marshall Space Flight Center, Huntsville, Alabama.

TAU CHAPTER

CDR V. RALPH SOBIERALSKI, '31, is assigned to command of the U. S. Coast and Geodetic Survey Ship *Hydrographer*. They are now engaged in hydrographic surveys in the Gulf of Mexico. Brother Sobieralski was previously Tampa District Officer for three and one-half years.

UPSILON CHAPTER

CHARLES B. BLACK, '35, is president of the J. W. Black Lumber Company, Corning, Arkansas. He is the father of eight children.

HAROLD K. BREWER, '48, is a sales engineer for Westinghouse Electric Corporation in Little Rock, Arkansas.

CDR W. F. RUSSELL, USN, '49, reported for duty as commanding officer of Mobile Construction Battalion FIVE in April 1964. He had been

commanding officer of the U. S. Naval Construction Schools at Fort Huachuca, California.

MAJOR HAROLD T. HAMILTON, '50, graduated in June from the Air Force Command and Staff College at the Air University, Maxwell AFB, Alabama.

DON E. CALLAHAN, '51, is a field service and support member of the technical staff of Hughes Aircraft Company, Tucson, Arizona.

CAPT. JAMES F. KOONCE, '51, graduated in June from the Air Force Command and Staff College at the Air University, Maxwell AFB, Alabama.

WILLIAM B. STILES, Hon., is director of the Graduate Institute of Technology of the University of Arkansas at Little Rock.

JAMES C. BARR, '55, is an assistant engineer for Southwestern Bell Telephone Company, Little Rock, Arkansas.

JULIAN C. STEWART, '57, is a civil engineer for United Gas Pipe Line Company, New Orleans, Louisiana.

GLEN SELF, '58, received his Ph.D. in industrial engineering from Oklahoma State University in August 1963. He is now working as senior operations analyst in operations research, General Dynamics, Fort Worth.

JOHN P. HOSKYN, '60, is working in the Hydraulic Section of the Tennessee Valley Authority, Knoxville, Tennessee.

JAMES R. KIMZEY, '61, is a doctoral candidate at Kansas State University, Manhattan, Kansas.

PHILLIP W. LANGLEY, '61, is a sales engineer for Layne Arkansas Company in Stuttgart. He is a member of ASCE, AWWA, the Junior Chamber of Commerce, and is a director of the Chamber of Commerce.

LT. EARNEST W. FANT, '63, is with the U. S. Army 3d Howitzer Battalion, 6th Artillery, Fort Sill, Oklahoma.

CHARLES F. LONG, '63, planned to enter graduate school this fall. He is a program engineer for General Electric Company, Brockport, New York.

JERRY R. ROGERS, '63, received his master's degree from the University of Arkansas in August. He expected to enter Northwestern University to work for his Ph.D. in civil engineering.

G. W. SORRELLA, '63, received his master of chemical engineering degree at the University of Oklahoma in June. He has accepted employment with Humble Oil & Refining Company, Baytown, Texas, as an engineer in the Butyl Rubber Section of the Technical Division.

LT. JOHNNY B. FLOYD, '64, has arrived at Glasgow AFB, Montana, for duty as a civil engineering officer.

PHI CHAPTER

GENE A. NOTTOLA, '52, is employed by Youngstown Sheet and Tube Company, East Chicago, Indiana, as assistant superintendent of construction engineering. He previously was with A. M. Kinney, Inc., Consulting Engineers.

JOHN R. CARLSON, '63, is enrolled in the Krannert Graduate School of Industrial Administration at Purdue. He expects to receive his M.S. in August 1965.

CHI CHAPTER

WILLIAM F. NORBYN, '32, has been elected vice president in charge of West Coast operations for Ceco Steel Products Corporation. His headquarters will be in Los Angeles. He is a director of the Construction Industries Committee of the Los Angeles Chamber of Commerce, a member and past secretary of the Construction Specifications Institute, and past president of the Los Angeles chapter of the Producers Council.

LEWIS W. LOWE, '40, is chief of the Substation Construction Branch, Parker-David Project, USBR, Phoenix, Arizona.

OSCAR T. LYON, JR., '42, is assistant state engineer for the Arizona Highway Department at Phoenix.

REECE J. DUNAWAY, '43, is chief of control systems engineering for AiResearch Manufacturing Company of Arizona at Phoenix.

CARLTON E. NELMS, '48, is assistant mechanical engineer for Inspiration Consolidated Copper Company in Arizona.

ROY H. VAN PELT, '61, is employed by Motorola Inc., Western Military Electronics in the Advanced Development Section of Telecommunications Lab. On April 4, 1964, he married Marilyn Pauline Ido in Phoenix, Arizona.

JAMES E. FORTHEMAN, '64, is a process design engineer for Chemstrand Company in Decatur, Alabama.

J. J. LAVELL, '64, is an application engineer for Collins Radio Company in Cedar Rapids, Iowa.

OMEGA CHAPTER

DENNIS E. DABLIGARD, '32, has been appointed chief engineer of the Port of Seattle by the Port Commission. He has been assistant chief engineer for the past three years.

ARTHUR H. COLGAN, '47, is a research scientist for Northrop-Nortronics in Rolling Hills Estates, California.

WILLIAM A. GRIFFITH, '47, is a research engineer for Phelps Dodge Corporation in Morenci, Arizona.

JACK R. ROSE, '52, is quality assurance manager for Conelco Components, San Bernardino, California.

HAROLD S. HANSON, '53, is a senior engineer for North American Aviation of Downey, California.

GAMMA BETA CHAPTER

FELIX D. GREISLER, '46, has been director for the past five years of electronic data processing for the Pennsylvania Department of Highways. The department uses an IBM 7040 and has one of the largest installations devoted exclusively to highway data processing.

JOEL S. SONNABEND, '52, received the degree of master of science in engineering management from Northwestern University in June 1964. He is working for Raytheon Company at Wayland, Massachusetts, as manager of the Product Engineering Section.

WAYNE A. DAVIS, '60, received an M.Sc. (summa cum laude) in electrical engineering from the University of Ottawa in October 1963. His thesis was entitled "On the Linearity of Sequential Machines."

LT. CLIFFORD B. STEARNS, '63, is an electronics engineer at headquarters of the Air Force Systems Command's Space Systems Division at Los Angeles.

DELTA BETA CHAPTER

MAJOR THOMAS M. SUMNER, '44, is a research and development officer at headquarters of the Air Force Systems Command's Space Systems Division at Los Angeles.

MORGAN S. WAUGH, '62, is a Ph.D. candidate in the Department of Electrical Engineering at Ohio State University. He holds a three-year NASA doctoral traineeship.

STEVE F. BRUCKER, '64, married recently and is employed at the National Cash Register Corporation, Dayton, Ohio.

DON HOLLENBECK, '64, is working for his master's degree in electrical engineering at Ohio University, Athens, Ohio.

JOHN W. JAMES, III, '64, is at Ohio State University on the Bell Labs master's program. At the time of his graduation from Speed Scientific School of the University of Louisville, he captured eight of the fifteen awards made to graduating seniors.

LAWRENCE NOLD, '64, is employed by Marathon Oil, Pipelines Division, Findlay, Ohio.

EPSILON BETA CHAPTER

CHARLES E. WALES, '53, received the 1964 Shreve Prize for Chemical Processing at Purdue University. The award emphasizes the importance of good teaching. Brother Wales is on leave of absence from the faculty of Wayne State University to work on his doctorate in chemical engineering.

THETA BETA CHAPTER

TOBIN HUMPHREY, '64, is an engineering management trainee for United States Steel, Pittsburgh.



Chapter News

Throughout the past biennium, each issue of *The Gear* has featured Chapter letters on a different topic. The topic this time is the pledging ceremony and pledge training. Practices in this vital area of Fraternity operation vary widely from Chapter to Chapter, but successful Chapters are never casual in preparing their pledges for full membership in Theta Tau.

The pledging ceremony was an important topic of discussion at the last Convention, and may well be considered again at the Convention in December.

ALPHA CHAPTER



Alpha Chapter is proud to have initiated 12 new members during the week of September 28th through October 4th. Each ex-pledge successfully negotiated "fun and health" week and became a brother during the formal initiation Sunday, October 4, 1964. The initiation is the culmination of Alpha's traditional pledging ceremonies and routines.

Soon after signing his pledge form, the pledge participates in a formal ceremony where he is presented to the active Chapter and in return is presented with his pledge pin by an active who serves as a "big brother," guiding him through the pledge quarter.

During the pledge quarter the pledge must memorize the Charter, important selected historical facts, general information, and information about every active and inactive Chapter of Theta Tau. He also learns the Chapter roll and must attend Monday night pledge meetings.

Each pledge must contribute ten hours of his time during clean-up and yard work. The pledge class as a whole receives one or several pledge projects of a beneficial nature, such as painting and permanent house improvements. During the pledge quarter each Alpha Chapter pledge must make an exact replica, except for initials and year, of Erich J. Schrader's Theta Tau paddle, which is kept at Alpha Chapter and cannot be taken from the house. The paddle is the pledge's personal possession, but it is carefully checked to ensure all dimensions are within strictly specified tolerances of the original.

This year we of Alpha Chapter are celebrating not only Theta Tau's Sixtieth Anniversary, but also Alpha Chapter's Sixtieth Anniversary. We formally celebrated with many of our alumni the founding of Alpha of Theta Tau at a banquet October 15. Festivities carried over until October 17, which is the University of Minnesota's Homecoming.

We wish each and every active and alumnus of Theta Tau Fraternity a very "Happy Anniversary."

ALBERT W. LINKS
Corresponding Secretary

BETA CHAPTER



Here at Beta our rushing procedure includes one or two open houses a year, intended to acquaint new students with Theta Tau. In addition we have several informal social functions a month to which promising individuals are invited. These functions include outdoor barbecue suppers in

the spring and fall, a smelt fry in the spring, and various indoor parties throughout the year. We have also found it to be a good policy to invite nonmembers to help work on such projects as Homecoming floats and Winter Carnival snow statues. We also make a practice of inviting individuals to dinner during the week.

Once a pledge class has been formed, each pledge receives a list of his duties and responsibilities. These include eating dinner at the house once a week, spending one night a week at the house to answer the telephone in the evenings and to wake the members in the morning, and keeping the living room in order. A regular part of our pledge training is a weekly meeting at which the pledges demonstrate individually their progress in learning the information about Theta Tau that they are required to know by reciting it before the members. Each pledge class is assigned a project which will be beneficial to the Chapter, and this must be completed before initiation.

We feel that the above procedures speed up a pledge's adjustment to fraternity life, create a sense of respect for the Chapter house, and promote unity among the members of the pledge class. We also believe that treating a pledge as we would any other member, with the exception of those practices listed in the paragraph above, results ultimately in a stronger fraternal bond.

JIM LARSON
Corresponding Secretary

GAMMA CHAPTER

No Chapter Letter

DELTA CHAPTER



Prospective rushees are introduced to the Chapter during several informal meetings at the beginning of the second semester. It is at this time that they are informed of their duties as pledges and what Theta Tau requires of them.

Upon acceptance of bids, pledges start on a seven-week pledge period in which they learn the necessary

information about our Fraternity. At the end of this period they are required to hand in a gear and the solution to our traditional engineering problem along with taking the pledge final.

Pledges are initiated in a formal ceremony as described in the Ritual.

Delta Chapter, under the leadership of our new Regent Alan Foster, is planning many things for the upcoming year. Among these are the updating of the Chapter's Bylaws, plant trips to various companies, having a series of lectures from guest speakers, and making final preparations for the Founders' Day banquet.

MICHAEL A. CAESAR
Corresponding Secretary

EPSILON CHAPTER

No Chapter Letter

ZETA CHAPTER

We here at Zeta Chapter have discussed having a pledging ceremony, but as yet we do not have one. At present, in the beginning of the semester we give our pledges



their pledge pins.

Each week our pledges are given certain assignments about the Chapter and the Fraternity at large which they have to learn. They are quizzed about these assignments at dinner on Monday nights. They are also given written tests on these and the highest score gets first choice at the work duties for the week. We have two pledge captains who take care of escorting the housemother and these are changed each week.

Our pledges are required to be in study hall Sunday through Thursday nights unless they have the permission of their active roommates. If by mid-term a pledge has exceptionally good grades, he also may be out of study hall on Wednesday nights if he so desires.

After living two semesters without a housemother, Zeta Chapter now has one. Although the men greatly enjoyed not having a housemother, the Dean of Men seems to think that they are greatly desirable. We now have the best one we could have found.

LARRY AKIN
Corresponding Secretary

THETA CHAPTER

As a newly reinstalled Chapter, we have not as yet established a formal pledging ceremony, and we look forward to hearing from other Chapters on this matter at the Convention this year. Our pledge training program this year will institute a practice we learned about at



the Regional Conference last spring, i.e., pledges making gear replicas for the brothers. Our practice has been to try to offer a pledge training program that offers a sampling of every type of activity that we have during the year. This practice will hope-

fully be reinforced by ideas taken from other Chapters' procedures.

Before the summer recess, we sponsored a very successful picnic at which the alumni surprisingly upset the active brothers in a softball game.

TED DIERENBAUS
Corresponding Secretary

IOTA CHAPTER



This semester Iota Chapter of Theta Tau Fraternity is training 16 pledges. The pledging ceremony and procedure are conducted in the way described by the national Fraternity.

The pledges meet once every two weeks, and at that time are given comprehensive quizzes concerning the meaning of Theta Tau, the purposes, the founding and Founders, the local Chapter establishment, all the Chapters of Theta Tau, and the symbols of the Fraternity. At the end of his pledging, each man is given an extensive pledge final. The pledge is then considered for initiation.

A pledge has certain obligations to the Chapter. One of the most outstanding projects of Theta Tau on this campus concerns the Theta Tau calendars. These school calendars list campus events for the entire school year. It is the job of each pledge to secure ads for the calendars. The overall project is quite successful for the Chapter.

Another project of the pledges is to keep up to date the file of addresses of alumni from the Chapter.

Other projects that this Chapter sponsors during the fall semester include the sale of mums during Homecoming and a dance held before the Thanksgiving vacation.

Another outstanding feat of the Chapter is that at the end of last semester, Iota Chapter achieved the highest organizational grade point average on campus.

LAMBDA CHAPTER

No Chapter Letter

MU CHAPTER



Here at Mu Chapter we do not have a pledging ceremony; however, we feel that we have a very good pledging procedure.

We first have smokers to introduce prospective pledges to the actives. Then we usually have a party with a band to assure the "rushees" that we are a well-rounded Fraternity in that

we are social minded as well as scholastic minded. We feel that helps the quality of the professional fraternity. A man must be able to get along with people in his field and the social activities we have play a vital part in molding a man's character. This is very impressive to a prospective pledge.

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After we have reached our goal in pledging, we have weekly pledge meetings and house meetings once or twice a month for actives and pledges together. This gives the pledges a chance to know the actives better.

The pledge trainer, with the help of suggestions from the Chapter, assigns the pledges various projects throughout the semester. These projects are usually to improve the house or previous projects of the Chapter. The pledges have their own officers and we try to get the pledge class to take as much initiative as possible. Also the pledge trainer tests the pledges on material such as the Pledge Manual, Chapter history, etc.

This year Mu Chapter has taken a gigantic step that rates recognition. Just this fall we have been granted permission to operate a house on campus. We are the first professional fraternity to accomplish this feat in the history of the school! Only by the hard work of a closely-knit brotherhood of men, and with the assistance of Grand Regent Rey, were we able to do this.

PHIL DUKE
Corresponding Secretary

XI CHAPTER



Xi Chapter opened the school year with an aggressive rush program. The first four days of classes saw two Theta Tau information booths opened, one in the mechanical engineering building and the other in the electrical and civil engineering buildings. These four days were climaxed by our first rush smoker. Rushes enjoyed a stag party, a second

smoker, and finally our date picnic. Xi Chapter concludes rush with the pledging ceremony modeled after Phi Chapter's.

Pledgeship at Xi Chapter is built around four pledge meetings. At each meeting a comprehensive test is given covering the previous meeting's material. Xi's pledges have both an individual project and a pledge class project. The individual project is a gear wheel which must be made by each pledge to be taken around to each active member to be signed personally. This gives all of us a better chance to become better acquainted with the pledges. The second pledge project is a Chapter scrapbook for our accumulating pictures.

Xi's pledges complete their pledgeship by putting on a skit at our dinner-dance the night before initiation. Oddly enough, it seems as if all of our skits center around one theme, which is a "friendly" satire on the active members. This completes pledging at Xi Chapter.

LARRY A. NORGAARD
Corresponding Secretary

OMICRON CHAPTER



Early in each semester, a smoker is held for prospective pledges. This provides an opportunity for those students who have expressed an interest in Theta Tau to become acquainted with the Frater-

nity and the active members. As soon afterward as possible, the pledge class is selected and its meetings are started.

Pledge meetings are held each week. The pledge trainer and his assistant preside over the meetings and instruct the pledges in the history, customs, and goals of the Fraternity. Tests, both oral and written, are held periodically throughout the training period.

Pledge training is climaxed by an informal initiation in the form of a picnic. Outdoor sports, an open fire meal, and general good times are the order of the day. In the evening, the pledges embark upon a search for the "Theta Tau Stone." When this precious piece of marble is at last located, pledge training is officially ended and formal initiation is held the following week.

Initiation is held in accordance with the customs of the Fraternity. The members then attend a banquet where the new initiates are welcomed into the Chapter and the Theta Tau Stone is returned to the Regent. This banquet includes dates and wives of the members.

We at Omicron feel that this program does an excellent job in preparing men for active membership in Theta Tau.

RONALD UPHAM
Corresponding Secretary

PI CHAPTER



The rush program at Pi Chapter consists of three rush parties in the spring. The first two are open to all engineering students and the third is by invitation only. Bids are

then sent out. A short ceremony and party follow the return of bids. Later in the spring a banquet is held to which all brothers, pledges, faculty members, and alumni are invited. The purpose of the banquet is to promote better student-faculty relations and unite Theta Tau brothers in a festive spirit. Recently we have enacted a rigorous training program for our pledges to learn historical facts and information about Theta Tau. In conjunction with Founders' Day observance, we held a banquet on October 23. Initiation of pledges preceded the banquet.

HENRY H. BARBOUR
Corresponding Secretary

RHO CHAPTER



The pledge program of Rho Chapter begins each semester with a smoker and a coffee hour at two consecutive open meetings. At these meetings the prospective pledges have a chance to meet all of the brothers, ask questions about the Fraternity, and learn what will be expected of them as pledges.

After selection, each pledge is assigned a "big brother" for the duration of his eight weeks of pledge training. The big brother system is used to foster a strong fraternal bond between the brothers and pledges, as well as to develop the pledges' professional interest.

As much personal contact as possible between pledges and brothers is desired during the pledge training. In connection with this, the Chapter has a weekend social outing during pledge training each semester. With all brothers and pledges attending, this event affords an excellent opportunity for the pledges and brothers to get to know each other better.

The highlight of pledge training for each pledge is the construction of his pledge hammer. During the final week of his training, each pledge must carry his hammer to class with him and also obtain each brother's signature on it. Since the hammer has a total length of 44 inches and a head size of six inches by four inches by thirteen inches, this is quite a job.

Through a high degree of professional interest and a close fraternal bond, the pledge program of Phi Chapter strives to develop brothers who will carry on the standards and traditions of Theta Tau.

LARRY M. SYKER
Corresponding Secretary

SIGMA CHAPTER



Since the livelihood of the Fraternity depends on rushing and pledging, we at Sigma attach great importance to our programs. The initial contact may be through letter, personal contact, or acquaintance with alumni. The rushee is invited to the house for a smoker or social event. One of the actives gets to know him personally and will probably invite him to dinner, where he can ask questions and meet more of the members. If the Chapter feels that the man meets the membership requirements, the rushee is then sent a bid to formally pledge Theta Tau on a given date.

A formal pledging ceremony is held. At this time, the pledge's "big brother" presents his pledge pin. The whole ceremony takes place in the chapter room with all members present.

Joining his pledge class, the new pledge must take part in organization of the class in order to elect officers, complete work projects, and generally unite as a group. We at Sigma Chapter have found the more spirit a class has, the greater percentage of them complete the required one quarter of pledgship.

During these three months, the pledge must (a) attend work sessions on Saturday mornings, (b) make a paddle and obtain signatures of all actives, (c) spend nine hours working on a project for the house, (d) help the rest of the class build a pledge plaque which is to be presented to the Chapter at the initiation banquet, (e) be present at the house at least one night per week to answer the phone. All of these projects can be completed easily if the pledges work as a group.

PETER L. LEFFLER
Corresponding Secretary

TAU CHAPTER



The pledging ceremony of Tau Chapter combines an indoctrination into Theta Tau as a national Fraternity with one dealing specifically with the customs and traditions of the local Chapter. We explain in greater detail than was done at the rushing smokers what

Tau does at Syracuse University, and let the pledges know what will be expected of them from both Theta Tau nationally and Tau Chapter locally.

For the past few years, we have also used the "big brother" system in our Chapter. Each pledge is entrusted into the care of a brother whose responsibility it will be to help and assist the pledge in any way he can, whether it be academic, social, moral, professional, or fraternal. Each big brother pins the pledge pin, and later the membership badge, on his "little brother" at the ceremonies. The form of this pledging ceremony follows that recommended by national with an informal ceremony of local origin later on.

Pledges are encouraged to take part in as many Chapter activities as possible. A long-standing requirement of all pledges is that they must construct a large wooden replica of a gear. Also, all pledges must compile the signatures of all brothers, along with each one's major field of study, year of graduation, and personal hobbies. This helps each pledge to learn about, as well as get to know better, each brother of Tau Chapter.

Tau plans all its pledge activities to fit in with the student's studies. We make a rule never to infringe upon a pledge's right to study, for that is his prime purpose for being in college. Tau Chapter keys its pledging program on the fact that a Chapter existing to help its members will continue to exist because its members in turn will help the Chapter.

LOUIS A. GROSS
Corresponding Secretary

UPSILON CHAPTER



Upsilon Chapter initiated a fine pledge class of fourteen boys on October 11. The Union is used as an initiation location as we of Upsilon feel it provides a place in which a good atmosphere can be achieved during the ceremony.

Each boy went through a merit and demerit program, plus the regular weekly meetings of the pledge class. The pledging was climaxed by "Gear Week" which started October 5 and continued to October 11. Clifton (Bandy) Stewart was elected model pledge. He is the starting center for the University of Arkansas Razorbacks and is majoring in mechanical engineering. Our chapter strength is now fifty actives and pledges.

We have just finished another successful "mum sale." We added over \$200.00 to our housing fund by selling mums at the University of Arkansas-Tulsa game on September 26. We are planning

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future sales at Homecoming on November 14, and hope to add still more to our housing fund. We are very proud of the team work exhibited by our actives and pledges in making these sales and other similar projects successful.

Our fall program is now under way with everyone looking forward to another great year for Upsilon Chapter. We wish the best of luck to all Taus for a successful year.

Vic JOHNSON
Corresponding Secretary

PHI CHAPTER



About 9:00 p.m. last May 5th, nearly everyone in the house found himself busy licking stamps, addressing envelopes, folding letters, or forging the Regent's name. This was the beginning of our fall rush program. This next semester our house occupancy will be down to a low level. Because of this the

rush program is very important if Phi Chapter is to maintain its present scholastic, professional, and social standing.

The first step of this program was the mailing of more than 250 letters to high school students who had enrolled in the Freshman Engineering Department. In this way we hoped to introduce Theta Tau, as well as Phi Chapter, to the entering freshman engineer. These students were invited, along with their parents, to a Saturday afternoon barbecue at the chapter house. (A great time was enjoyed by all.) Correspondence was continued with the students during the summer.

We have started this fall by sending personal letters to all of the freshmen engineering honor students. The Interfraternity Council, which controls all formal rushing on campus, has invited freshmen over to the different houses for Sunday dinners at the beginning of the school year. The IFC will then hold a convocation at which the freshmen will be invited to become acquainted with the fraternity system through a series of visits to different houses for smokers or dinners. These will continue for three weeks and after this time the fraternities are not supposed to have personal contact with the rushees. This ban on personal contact eschides letters and phone calls. At Christmas greeting cards will be sent to prospective rushees.

For the first three weeks of the second semester an informal rush program will be in progress where the rushees may be asked to the individual house for parties or just to study. After a certain date the houses will be free to pledge any person.

Phi Chapter has a formal pledging ceremony where the pledge is presented his pledge button by his adviser. The adviser is responsible for seeing that the pledge is helped with any problems he might have.

We are still trying to develop more fully our rush and pledging program. Any suggestions or helpful hints would be greatly appreciated. We hope that this outline of our program will be profitable to some other Chapters.

PAUL D. WISSELER, II
Corresponding Secretary

CHI CHAPTER



Chi Chapter of Theta Tau has a rushing and pledging system which is designed to demonstrate to the pledges what is expected from them as active members of Theta Tau and what Theta Tau can offer them. Chi initiates two pledge classes each

year—one each semester. Our rushing program begins when we send out letters to all the engineering students at the university. We hold three open meetings where the rushees can get a look at our Chapter and we a look at them. The second open meeting is a Saturday picnic where the actives and rushees play a fast game of football in a dry river bed outside of town. After the third open meeting the actives select the pledges by secret ballot and the pledge program then begins.

The pledge period lasts seven weeks, during which time the pledges shine a cast bronze five-inch gear, renovate the chapter house, attend our social functions, and learn the names of all the actives and alumni on campus by obtaining their signatures. During the week prior to initiation they are given the pledge test and are required to wear their polished gears around their necks to publicize the Fraternity on campus.

DUNCAN M. McINTOSH
Scribe

PSI CHAPTER

No Chapter Letter

OMEGA CHAPTER



Pledging at Omega Chapter of Theta Tau gets off to an early start with the mailing of letters of greeting during the summer to incoming freshmen. This letter tells the freshmen a little about Theta Tau and invites them to visit the Fraternity house.

As the school year progresses, prospective pledges are invited to different functions such as smokers and pizza parties. For entertainment at these functions, we have tried local comic talent and live music, and both have met with much success.

We usually have 10 to 15 pledges at any one time. During pledgship they become thoroughly familiar with Theta Tau and all of its traditions and customs.

We generally have two initiation weeks—one in the fall for upperclassmen and one in the spring for freshmen and upperclassmen. At our school, freshmen are allowed to pledge the second semester if they have a 2.00 accumulative grade ratio out of 4.00.

Pledge meetings are held about once every two weeks and more often just before an initiation week. At these meetings pledges are encouraged to learn all pertinent information contained in the Pledge Manual, all of the local Fraternity infor-

mation, and all of the pledge rules. The pledges also work on a pledge project, which is usually some improvement on the house. Each pledge is also required to make a symbolic paddle for a senior active.

At the present, we are still working diligently on plans for a new house, and have had a tentative blueprint drawn up. Omega Chapter again won the award for the highest average grade ratio among fraternities here at the School of Mines. The average for all actives last semester was 2.81 out of 4.00.

RONALD UTTECHT
Corresponding Secretary

GAMMA BETA CHAPTER



Gamma Beta's pledge program, under pledge chairman Marty Felker's direction, got off to an early start with the brothers taking part in George Washington University's freshmen orientation by acting as "Old Men." All engineering freshmen attended a special

orientation assembly where the purposes and virtues of Theta Tau were explained in detail. Prospective pledges were invited to our annual Shrimp Feast and a subsequent coffee hour get-together in order to meet the brothers.

This year it appears that we will have a larger than average pledge class. Initiation is held at our annual banquet and ball.

Gamma Beta's activities this semester include the setting up of a separate engineering school library, long needed and anxiously awaited.

Gamma Beta wishes its brother Chapters a happy Sixtieth Anniversary.

MILLARD E. CAHR
Corresponding Secretary

DELTA BETA CHAPTER

No Chapter Letter

EPSILON BETA CHAPTER



New members are initiated into Epsilon Beta Chapter twice each year. Because of the relatively small engineering enrollment at WSU, we have to get out and make ourselves known to all those who are interested in pledging a fraternity. A rush chairman is appointed twice each year to head a committee for the

sole purpose of obtaining new members. The committee will usually make arrangements for posters to be distributed in school and for advertisements to be printed in the school paper for the purpose of announcing the dates of rush parties where students may come to learn about Theta Tau and its members. In addition, the Interfraternity Council sponsors a Fraternity Day when most of the fraternities have an opportunity to set up a display in the Student Center.

Each fraternity has two rush parties and pledging begins a week after the last one. Our pledge period lasts only about six weeks due to the quarter system. During the last week of school, when finals are given, the pledges are relieved of their duties. During the pledge period each pledge is asked to learn all that is necessary to become a well-informed Theta Tau. The required material is given to pledges in portions each week. By the time the pledge period ends, they are ready to take their national and Chapter exam.

The pledge period is interrupted once for the twice-a-year Stag Party, when the pledges have their golden opportunity to thank the members and alumni for their education. The Stag Party is climaxed by a skit put on by the pledges. The skit is designed by the pledges to "score" on the members or the alumni. Informal initiation is held during the Christmas vacation or the summer vacation. Everyone held by the pledges to "score" on the members or the alumni. Informal initiation is held during the Christmas vacation or the summer vacation. Everyone held by the pledges to "score" on the members or the alumni. Informal initiation is held during the Christmas vacation or the summer vacation. Everyone held by the pledges to "score" on the members or the alumni.

RICHARD CALCATERRA
Corresponding Secretary

ZETA BETA CHAPTER

No Chapter Letter

ETA BETA CHAPTER



This fall Eta Beta Chapter conducted one of its most successful rush programs in recent semesters. This semester is similar to social fraternity rush, and it attracted some of the best men in the engineering school.

A series of parties which began in August succeeded in showing interested students the role of Theta Tau



Eta Beta Chapter's new house

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in college life, and giving rushees and members a chance to become better acquainted.

All eligible students were made aware of our program by distinctive printed invitations and by personal contacts. Students were also invited to drop in at the newly acquired chapter house to become more familiar with the Fraternity and its members.

One of the more successful parties was an athletic party just before school began. Football, baseball, and tennis combined to create a friendly, informal atmosphere.

The remaining four parties consisted of two date parties and two stag parties. The rushees were shown that Theta Tau is the fraternity for engineers; that it offers a chance to mix with other students, plus a social schedule designed to completely fill the needs of the engineering student. This series of events climaxed in the extension of bids to the prospective pledges.

Late in August, the Chapter succeeded in securing a suitable home, which is located in a pleasant neighborhood just ten minutes from the University of Houston. The house itself is a two-story masonry structure with living quarters upstairs for 12 members, and an adequate party area below. The spacious grounds are kept immaculate by a full-time gardener who resides on the premises. Presently six of the active members are residing in the house, with plans for others to move in during the weeks to come.

DAVID L. MILLER
Corresponding Secretary

THETA BETA CHAPTER

No Chapter Letter.



Wilfred Litzler places the badge replica above the fireplace in Eta Beta's new house.



Moving day for Eta Beta. Jim Simmons, Wendell Brough, and Leonard Wideman provide the manpower.

IOTA BETA CHAPTER



We of Iota Beta draw from some 42 years of past pledging experience, and being a local (Chi Sigma Phi) engineering fraternity, have established definite ideas on what we expect our pledges to accomplish. Being a cooperative institution, our pledging time is cut to a mere nine weeks.

During this time we expect our men to accomplish the following: learn the traditions of Theta Tau and Iota Beta Chapter; learn the members' names and majors; and construct a wooden gear with Theta Tau across the front, to be worn at all times.

After a man has begun to accomplish these things, he must carry out given assignments. A few examples are the following: a thoroughly detailed program, which engineered a chariot and a float; to make a report and sponsor a "mixer" type party for the active members; take an active part in the intramural sports and contests between our rival engineering fraternity. During the fall of each year the Interfraternity Council of the University of Detroit sponsors a "Greek Week." Our pledges play a significant role, not only in the Greek games, but also in general participation.

It is not inconceivable that a man in his first or second year of college could be lost in the fast pace that we set for him. Therefore, being aware of this possibility, we appoint for each pledge a "big brother" to look after and counsel the pledge.

It is basically these methods that we, the men of Iota Beta Chapter, choose in order to mold our men for Theta Tau.

RONALD C. READ
Corresponding Secretary

Additions to Membership

ALPHA CHAPTER

- 747 Michael Scott Eggert, Minneapolis, Minn.
748 Kenneth Arnold Hanson, Duluth, Minn.
749 Michael Anthony Bukovich, Buhl, Minn.
750 Alan James Capps, Chisholm, Minnesota
751 Carl Francis Darling, La Crescent, Minn.
752 John William Fraser, Jr., Duluth, Minn.
753 David Lee Gellatly, Duluth, Minnesota
754 George Harold Grenander, Jr., Minneapolis, Minnesota
755 Knute Sidney Knudson, Duluth, Minn.
756 Neal Franklin Nordling, Hallock, Minn.
757 Robert Allen Nordstrom, Minneapolis, Minn.
758 Ronald Alex Podpeskar, Virginia, Minn.
759 Reynolds Joseph Benzaglia, Virginia, Minn.
760 David Harry Ruhlberg, Fort Lauderdale, Florida

BETA CHAPTER

- 932 John Henry Kopecky, Cicero, Illinois
933 Albert Eugene Stinaac, Highland Park, Mich.
934 Michael John Day, Sault Ste. Marie, Ontario, Canada
935 James Alton Stroup, Birmingham, Michigan
936 Raymond Lee Srebnant, Downers Grove, Ill.
937 Donald Walter Slat, Downers Grove, Ill.
938 Brian Bradley Bovee, Laurium, Michigan
939 Robert Craig Sherrill, Hickory Corners, Michigan
940 Keith Arthur Kessler, Pentwater, Michigan
941 Joseph Bernard Schomer, Royal Oak, Mich.
942 Daniel Charles Bellis, Jr., Chicago Heights, Illinois
943 James Walter Balsiger, Chippewa Falls, Wisconsin
944 Robert James Frank, East Tawas, Michigan

GAMMA CHAPTER

- 968 Robert Emerick Villagrana, Berkeley, Calif.
969 Daniel McFadden, Moab, Utah
970 William George Flesner, Brighton, Mass.
971 Clark Louis Wollenweber, II, Arvada, Colo.
972 Robert Edwin Sidwell, Pampa, Texas
973 Floyd Challis Willett, Jr., Williams, Ariz.
974 August Joseph Zarcone, Oak Park, Illinois
975 Daryl Clyde Dickerhoff, Trinidad, Colo.
976 William Jan Aldrich, Denver, Colorado
977 Steven Lewis Harvey, Maryville, Tenn.
978 Robert Craig Goodmanson, Oakland, Calif.
979 Earle Melver Bagley, III, San Andreas, California
980 Thomas Henry Drupree, Tulsa, Oklahoma
981 Gary Karl Gaitner, Covina, California
982 Robert Francis Christie, Jr., Denver, Colo.
983 Terrance Stafford Bouse, Saratoga Springs, New York
984 Scott Terry Riley, Golden, Colorado
985 Robert Henry Writz, Jr., West Nyack, New York
986 James Robert Holley, Glen Rock, Penna.
987 Roger Hartel Neudeck, Bakersfield, Calif.
988 Robert Dorsey Coale, Houston, Texas
989 Alfred Michael Watson, Phoenix, Arizona

- 990 Kenneth Lee Ancell, Burlington, Colorado
991 Robert Penelton Sulte, III, Ft. Lauderdale, Florida
992 Gene Baylor Colvard, Sterling, Colorado
993 Richard Carl Smith, Golden, Colorado
994 John William Carlson, II, Pueblo, Colo.
995 Grant George Owen, Downey, California
996 Douglas Von Sanders, Denver, Colorado
997 Thomas Connelly March, Tulsa, Oklahoma
998 Don Richard Clarke, Ardsley, New York
999 John Michael Galloway, Tulsa, Oklahoma
1000 Daniel Keith Fix, Golden, Colorado
1001 Terry Leland Campbell, Louisville, Ky.
1002 Michael Gordon Croson, Lyons, Oregon
1003 Charles Marion Wyatt, Tulsa, Oklahoma
1004 Donald Edwin Vandenberg, Whittier, Calif.
1005 Gregory Wayne McIlvain, Lakewood, Colo.
1006 William Dee Hunsaker, Denver, Colorado
1007 Robert John Goverski, Lakewood, Colo.
1008 Charles Lewis Clagston, Rifle, Colorado

DELTA CHAPTER

- 1035 David Robert Boehm, Chagrin Falls, Ohio
1036 Michael A. Caesar, Forest Hills, New York
1037 Li-Pei Chen, New York, New York
1038 Louis William Coben, Cleveland, Ohio
1039 Ronald Neal Cotman, Cleveland, Ohio
1040 Alan Malcolm Foster, Cleveland, Ohio
1041 Robert Cuffin Garson, Bryn Mawr, Penna.
1042 Robert D. Giammar, Cleveland Heights, O.
1043 Charles M. Gall, Jr., Cleveland, Ohio
1044 Paul M. Green, Atwater, Ohio
1045 Robert R. Herbster, East Orwell, Ohio
1046 Ernest F. Jagalar, Jr., Houston, Texas
1047 William Jones, Jr., Washington, D. C.
1048 Fred D. Keady, Chicago, Illinois
1049 Ray M. Muntoro, Mayfield Heights, Ohio
1050 William S. Niece, Waverly, Ohio
1051 Pascal C. Benard, Lynchburg, Virginia
1052 Fredrick M. Weaver, Enon, Ohio
1053 Alan Warren Weiner, Shaker Heights, Ohio

ZETA CHAPTER

- 672 Mansouher Warleb Orshubi, Rezaieh, Iran
673 Ronald Clark Bowman, Council Bluffs, Iowa

THETA CHAPTER

- 667 Robert Alan Bornfriend, New York, N.Y.
668 Kenneth Jay Brethart, Aberdeen, Md.
669 Michael Douglas Gillespie, Fort Smith, Ark.
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We salute these Chapters which are celebrating important anniversary dates this school year:

Lambda Chapter	45th	April 29, 1965
Sigma Chapter	40th	November 29, 1964
Chi Chapter	35th	April 23, 1965
Gamma Beta Chapter	30th	March 16, 1965

Plan to attend your Chapter's anniversary celebration, alumni!



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A "Relic" of the Past Still Works

The other day a friend of mine who is not a fraternity member was expressing his feelings about his college days. He knew that there was something lacking, something that had left his undergraduate experience incomplete. He felt no particular ties to his alma mater because he had "no place to go back to" when he returned there for school celebrations.

He realized that the educational process encompasses more than academic activity and that identification with an organized group might have made this experience much more complete for him. He admitted that he would feel a closer attachment for his university had he chosen to join a fraternity while in school.

This has long been the role of the college fraternity—not only to help a man round out his maturing years, but also for lifetime relationships with his fellow men which extend beyond the confines of the university. This is the "sales pitch" of the college fraternity, but too often we fail to make our point that the fraternity fills some needs that the college cannot.

The obvious external values are often extolled, e.g., leadership training, social activity, organized study groups, character building, etc. But far more important basic needs of the individual are fulfilled by the fraternity, these being the friendship tradition, the closeness of a small group, and the individual acknowledgement and recognition in this group which all people crave in a fast-moving, impersonal environment. When these needs are fulfilled a richer, more satisfying college experience for the individual results.

In other words brotherhood, fraternal fellowship, and individual recognition are not "out of date" goals which motivated the founders of the fraternity movement. Rather in this complicated world of high pressures for excellence, utility, and success, the

goals of the college fraternity remain unchanged and fill the greatest needs of all. It's our job to promote these goals in the framework of today's world. Let's live in the present, but recognize that the ideals of the college fraternity are as much a requirement of today's living as they were a century ago.

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NOTICE OF DECEASED MEMBER

Please give as complete information as possible, including biographical data known, clippings, etc. Send to *The Gear of Theta Tau*, 2524 Bennett Road, Lafayette, Indiana 47905.

Name _____ Chapter _____ Class _____
Year _____

Address _____

Date and place of death _____

Name and address of nearest relative _____

Reported by _____ Chapter _____

Address _____

Relationship to deceased _____

RECOMMENDED STUDENTS

Mail to Robert E. Pope, Executive Secretary, 13 Sona Lane, St. Louis, Missouri 63141. Include relatives and other recommended students at accredited schools whether or not Theta Tau yet has a chapter at that school.

I recommend that the following student(s) in engineering (or geology) be considered for Theta Tau membership:

Name _____ School _____

Mailing Address _____ Major _____

_____ Expected Graduation Date _____

Remarks:

Signed _____ Chapter _____ Year _____

CHANGE OF ADDRESS NOTICE

Send to *The Gear of Theta Tau*, 2524 Bennett Road, Lafayette, Indiana 47905.

Name _____ Chapter _____ Class _____
Year _____

Old address:

Street _____

City _____ State _____ ZIP Code _____

New address:

Street _____

City _____ State _____ ZIP Code _____

Permanent address from which mail will always be forwarded to you:

Street _____

City _____ State _____ ZIP Code _____

NOTICE OF ALUMNUS ADDRESS

Send names and addresses of any alumni you know who may not be receiving *The Gear* to *The Gear of Theta Tau*, 2524 Bennett Road, Lafayette, Indiana 47905.

Name _____ Chapter _____ Class _____
Year _____

Street _____

City _____ State _____ ZIP Code _____

Reported by _____ Chapter _____ Class _____
Year _____

Street _____

City _____ State _____ ZIP Code _____

Be sure the Theta Taus you know are receiving *The Gear*.

GIFTS TO THETA TAU

Make checks payable to Theta Tau Fraternity and mail to Robert E. Pope, Executive Secretary, 13 Sons Lane, St. Louis, Missouri 63141.

I enclose the following contribution to Theta Tau:

As an unrestricted gift \$ _____

For the Founders' Memorial Fund \$ _____

Name _____ Chapter _____ Class _____
Year _____

Street _____

City _____ State _____ ZIP Code _____

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Coat of arms recognition button (Top right)		1.25
Alumni charm (Lower left)		3.25
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Crown-set pearls	7.75	14.00
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