

The GEAR of THETA TAU



GRAND REGENT CHARLES E. WALES

SPRING 1969

VOLUME LVIII

NUMBER 2

THE EXECUTIVE COUNCIL

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Bequests to Theta Tau may be made using the following suggested form:

"I give, devise, and bequeath to Theta Tau, national professional engineering fraternity, with its Central Office located at 13 Sona Lane, St. Louis, Missouri 63141, \$ _____ (or 'the following described property, or securities'), as an unrestricted gift (or 'as a contribution to its Founders' Memorial Fund')."



The Gear of Theta Tau

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VOLUME LVIII NUMBER 2

WILLIAM E. FRANKLIN, *Editor-in-Chief*

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• THE GEAR is the official publication of Theta Tau, national professional engineering fraternity, and is published fall and spring. The magazine is devoted to matters of Fraternity interest and is sent at no cost to alumni whose addresses are on record. • Send change of address notices to the Theta Tau Central Office, 13 Sans Lane, Saint Louis, Missouri 63141. • THE GEAR is printed by Allen Press Inc., Lawton, Kansas. Third class postage has been paid at Lawton, Kansas 66044.

In Memoriam: Founder William Murray Lewis

Theta Taus everywhere were saddened to learn of the death of William Murray Lewis, Founder Number 3, on February 20, 1969. Brother Lewis maintained a great interest in the Fraternity over the years, and he attended a Biennial Convention as recently as 1966, when he was 82 years old. That Convention was named in his honor.



William Murray Lewis
Founder No. 3
1885-1969

At the University of Minnesota in 1904, he joined with Erich Schrader, Elwin Vinal, and Isaac Hanks in founding Theta Tau. Later, as a student at Colorado School of Mines, he assisted in establishing Gamma Chapter there.

Brother Lewis was born June 2, 1885 in Fergus Falls, Minnesota. His early years were spent mostly in Duluth and St. Paul. His first job was on a survey crew in the Mesabi Range Iron section of Minnesota. The summer of 1903 he spent in a placer mining camp in Nome, Alaska. He worked in mines and mills in Colorado, Arizona, and Nevada during vacations. Immediately after his graduation from Colorado School of Mines in 1909, Brother Lewis spent a year in Guanajuato, Mexico on a silver project.

In 1911 he joined the Stone and Webster Engineering Organization and worked on construction projects for several years in Minnesota, Iowa, New England, and Canada. He later held several jobs in the export field in New York, and in 1924 he joined the Layne Organization.

Brother Lewis spent the remainder of his career with Layne, a national and international group of companies specializing in ground water engineering and production. The parent company manufactures pumps and related equipment, and the other firms market the products. Brother Lewis was associated with Layne New York Co., and he held all titles from sales engineer to president.

Brother Lewis and his wife lived in Drexel Hill, Pennsylvania. They celebrated their fiftieth wedding anniversary in 1963. In addition to his wife, Brother Lewis is survived by a son, Oliver C. Lewis, a daughter, Mrs. E. J. Eggart, grandchildren, and great grandchildren. Also surviving are two sisters and one brother.

The passing of a Founder is a sad occasion, but the members of Theta Tau are privileged to carry on the ideals and traditions begun so well in 1904.

The Isaac B. Hanks Convention

Forsaking a "tradition" that calls for Theta Tau Conventions to be held in cold climates in December, the Twenty-Seventh Biennial Convention convened for the first time in the South—at Tuscaloosa, Alabama on December 27, 1968. Mu Chapter (University of Alabama) and Kappa Beta Chapter (Mississippi State University at Starkville) rolled out the welcome mat as cohorts for the event. These two Chapters, along with Bill Rey, Past Grand Regent, and Bob Pope, Executive Secretary, provided the effort that made the event a success. The Stafford Motor Hotel was Convention headquarters. The cohort Chapters performed admirably seeing that registration and Convention facilities and services were properly taken care of.

It was a high spirited group that came together to consider the business of the Fraternity.

In all, 118 delegates, national officers, and other student and alumni members were in attendance, representing Theta Tau's 28 Chapters. One of the interesting phenomena of national Conventions is observing the collegiate members as they confront for the first time in reality that Theta Tau is a national professional engineering fraternity. Suddenly the typically parochial viewpoints of the collegiate members are stretched by the realization that Theta Tau is made up of people from many different campuses across the U.S.—from Columbia in the East to Berkeley in the West; from Michigan Tech in the North to Houston in the South. The similarities of each Chapter are a base from which differences of background become a strength from which to develop a meaningful program for Theta Tau Fraternity as a national organization.

Past Grand Regents Richard J. Russell and Russell Glass were there taking an active part in the deliberations and festivities. In fact, with Bill Rey (Delegate at Large) and Charles Britzius (Grand Treas-

urer), four Past Grand Regents were in attendance.

Brother Bill Rey spearheaded a publicity program that is unequalled by other Conventions. Through his diligent work Theta Tau received local notice in three newspapers, on local television, and at least two radio stations. In addition, the Convention



Past Grand Regent Richard J. Russell (right) exchanges views with a fellow educator, William Lear, Mu '42, Dean of the Alabama School of Engineering, who spoke at the opening dinner of the Convention.

received a welcome from the Honorable Albert P. Brewer, Governor of Alabama, who telegraphed: "I take pleasure in welcoming Theta Tau to Alabama for your 27th Biennial Convention in Tuscaloosa this weekend. Please accept my best wishes for a most successful and enjoyable meeting. We hope you will be pleased with our Alabama hospitality, and that those of you from out of state will return again soon and often." Alabama did its best to make Theta Tau feel welcome on its first Convention in 27 to be held in the South.

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First Day Events

The first day was taken up with registration and committee organizations. The first Convention Session was held, at which the national officers presented their official reports to the Convention. This was followed by the opening dinner, at which William Lear, Mu '42, dean of the Alabama School of Engineering, was the principal speaker. As a member of Theta Tau, he spoke to members and guests about the philosophy of engineering education at the University of Alabama.

Dean Lear described the development of an "adaptive system" in which change of content can be effected without a change in the basic structure. This grew out of a careful evaluation of principles of value from the past combined with an interpretation of the future trends in technological innovation. The result: a three point curriculum consisting of a common core (math, science, humanities, social science); a "flexible core" of seven basic engineering sciences; and professional or departmental courses.

This was a timely topic well chosen to hold the attention of student and alumnus alike. After hearing welcomes from the School of Engineering and the University, the delegates adjourned for committee work far into the night.

A Day of Activity

December 28 was a day of tours and workshops, with committee work sandwiched between events, conducted on buses, and again at night. First event of the day was a tour of the University of Alabama campus and the Mu Chapter house. Then the group journeyed 83 miles by bus to the Mississippi State campus at Starkville for a tour of that University and the Kappa Beta Chapter house. The brothers of Kappa Beta were well prepared and hosted the house and campus tours very well. Luncheon was in Starkville, and Dean Harry C. Simrall of the College of Engineering at Mississippi State spoke and

gave the official welcome on behalf of his University and School. His remarks centered on the importance of engineering in today's world and the challenges of the space age.

The Second Convention Session was also held in Starkville. Brother Bob Pope, Executive Secretary, very effectively conducted a Chapter Officers' Workshop at which he exposed members to the operation of the Central Office, how each Chapter may benefit from its services, and the elements of efficient Chapter operation. A question and answer session followed. Then, it was back to Tuscaloosa for dinner and one more Convention Session.



Andrew Gaspar, Theta Delegate, gave a first hand account of the Columbia student demonstrations which took place in 1968. Brother Gaspar was one of two Theta Taus selected to serve on a specially created Joint Committee on Disciplinary Affairs created after order was restored at Columbia.

George Dodd, chairman of the Ritual Revision Committee, conducted a Ritual Workshop in which proper and effective ritual procedures were emphasized. This session was well received by the delegates and led to a number of discussions about initiation details. Once again the committees and Executive Council convened for work into the wee hours in anticipation of



OFFICIAL CONVENTION PHOTOGRAPH

ROW 1: J. M. Dealy, Zeta; William E. Franklin, Zeta; Garn Hatch, Zeta Beta; Robert E. Pope, Zeta; William K. Rey, Mu; James L. Reynolds, Alpha; C. E. Wales, Epsilon Beta; C. R. Hanes, Sigma; Jay N. Thorpe, Lambda; George G. Dodd, Zeta; F. E. Armstrong, Mu; Russell Glass, Sigma; R. J. Russell, Epsilon; C. W. Britzius, Alpha; L. F. Feldsien, Alpha. ROW 2: Ed Hiltbeutel, Phi; Al Menze, Chi; Jeff Brann, Zeta; David Ramsower, Chi; John Witt, Xi; Kent Williams, Phi; Rich Ruh, Phi; Steve Dozier, Lambda Beta; Thom Chaffin, Lambda Beta; Terry Pennaz, Alpha; Thomas Collins, Eta Beta; David Jahnke, Xi; Joe Dyer, Rho; Larry Weeks, Rho; Gary Miller, Rho; Gary Davis, Mu; M. D. Thomason, Mu; Benja Thompson, Mu. ROW 3: James B. McKelvey, Iota; Michael T. Kusmak, Omega; Thomas D. Rolland, Omega; John S. Halajko; Andrew Gaspar, Theta; Ta M. Li, Theta; Larry D. Anderson, Kappa Beta; Harvill Eaton, Lambda Beta; Robert Gardner, Iota Beta; James Sovchik, Iota Beta; Richard Thomason, Theta Beta; Richard Hall, Upsilon; William Campbell, Delta; James Joy, Delta; James Benner, Psi; Larry Johnson, Sigma. ROW 4: James A. Blanchard; Richard L. Holliday; Robert Blackledge; James L. Holzhauser; Jerry B. Banks; Jimmy D. Vickery; Stan C. Whitfield; Joe Fuller; John Trine, Alpha; Russell Ewing, Upsilon; Greg C. Eichert, Gamma Beta; Russ Goddard, GMI; Bill Reed, Phi; Andy Russell, Zeta. ROW 5: Bruce McKinstry, Gamma; John Mirabella, Pi; Leonard Parren, Tau; John Wehner, Sigma; Bill Ege, Zeta; Mike Brainard, Eta Beta; Keith Simpson; Dave Dwyer, Zeta; Myrl Wear, Zeta; Wayne Harkins; Dennis Putnam, Tau; Hal Butts; Bill Arrington; Ronald Wooten. ROW 6: John R. Commons, Delta Beta; Dale Steen, Kappa Beta; Joel S. Schwartz, Delta Beta; Michael D. Tarullo, Delta Beta; Bill Paulus, Delta Beta; Jim Hawkins, Lambda; Gary L. Smith, Epsilon Beta; Robert P. Thomas, Epsilon Beta; Van Orr, Mu; James Keith, Mu; Michael Wildman, Epsilon. ROW 7: Larry Brown, Beta; Lyle Northrop; John Moscheck; James Bay; John Richards, Beta; David Nagel.

the first business session on the following day.

Special Presentations Abound

To the surprise of many Convention veterans, the Chapters eagerly prepared and delivered a variety of special presentations at "idle" moments during the Convention—after dinner, at breakfast, at lunch. All of the special presentations were well received by the delegates. They covered special topics selected by the Chapters. The GEAR Editor's record shows the following special presentations: Theta Chapter—Andrew

Gaspar—an account of the Columbia University disturbances in the spring of 1968; Phi Chapter—Bill Reed—slide show of Theta Tau's general program of operation at Purdue University; Zeta Chapter—Andy Russell and Jeff Brann—slide show and description of Zeta's new house from ground breaking to completion; Alpha Chapter—Terry L. Pennaz—slide program of Theta Tau at the University of Minnesota; Lambda Beta—Harvill Eaton—the Colony program as it operated at Tennessee Tech; Kappa Beta—H. Dale Steen—rush programs at Mississippi State University; Beta—Larry

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Brown—slide program on Theta Tau at Michigan Tech; Mu—Bob Thompson—showed a NASA film in which Past Grand Regent Bill Rey was featured as professor of aerospace engineering; Rho Chapter—Joseph Dyer, Jr.—described the Chapter's involvement in community affairs through a tutoring program for Negro freshmen at a local college; Delta Beta—John Commons—a recounting of the trials and tribulations of acquiring a new chapter house amid an urban renewal area and uncertain zoning situations; Sigma—Larry Johnson—service projects of Theta Tau at Ohio State, especially freshman tutoring; Chi—Alan Mense—Theta Tau at the University of Arizona; GMI Colony—slide show of Colony operations, including its house.

Business in Earnest

December 29 brought two full business sessions of the Convention, and committee reports began to pour forth. Discussion, debate, parliamentary procedure, and official convention action became the order of the day. Most committees had done their work and their reports were accepted in due order. The budget came in for much discussion, but was eventually adopted with the Chapters voting a substantial increase in both initiation fees and semiannual dues to avoid a deficit. Considerable debate also centered on proposed changes in the colony program.

As the day wore on, many delegates got their chance to express themselves on the Convention floor. Events of the day also included a Memorial Service to recognize those members who had been reported deceased in the previous two years.

Initiation and Banquet

The evening began with a full scale initiation of Mu Chapter pledges, conducted in exemplary fashion by a team consisting of Barry N. Still, Mu, as Regent; John W. Witt, Xi, as Vice Regent; Kent A. Williams, Phi, as Scribe; David C. Dwyer, Zeta, as Treasurer; William J. Paulus, Jr., Delta Beta, as Marshal; Joel S. Schwartz, Delta

Beta, as Inner Guard; and Robert P. Chase, Tau, as Outer Guard. Then, amid congratulations to the new members, the Convention Banquet was begun.

For the first time the Banquet was opened to guests and the Banquet was attended by a number of the ladies of members and other special guests. With Ray Hanes, Grand Regent, as Toastmaster, messages from those Founders and Past Grand Regents not in attendance were read to the more than 100 persons present.

First speakers of the evening were Richard J. Russell, Russell Glass, Charles Britzius, and William K. Rey, Past Grand Regents. Their remarks were a delightful combination of reminiscences and serious references to the purposes of Theta Tau as a professional engineering fraternity. They urged renewed dedication to the principles upon which the Fraternity has found its strength for 64 years.

Turning then to awards, James L. Reynolds took the stand to present the Erich J. Schrader Award to the outstanding chapter of Theta Tau. To the surprise of everyone, he announced a tie for first place; Phi (Purdue) and Epsilon Beta (Wayne State University) walked off with cobonors for the highest chapter award. This was Phi's third win in a row and Epsilon Beta's first. Both Chapters were well represented and were pleased to be recognized as first in Theta Tau—with the honor of displaying the traveling plaque.

Grand Scribe Bob Pope then came forth to present the Outstanding Delegate Award. This honor had been bestowed by secret ballot of the delegates only a few hours earlier and all delegates waited in anticipation. Brother Alan T. Mense, Chi Delegate, took this honor, being the thirteenth man in Theta Tau history to do so. He was very active in floor debate and a skilled interpreter of parliamentary procedure.

Guest speaker of the evening was Brother Jack W. MacKay, American Cast Iron Pipe Company, Birmingham, an alumnus of Mu Chapter. His address was delivered on behalf of Kenneth R. Daniel, Mu '36, president



The hard working host committee members made the Convention a success. Here Gary Davis, Mu '69, chairman, and Bill Arrington, Mu '70, display a banner at the airport.



The Convention initiates were these new members of Mu Chapter: Joseph Ronald Stone, Michael Stephen Abbott, Ronald Paul Steele, Walter Roland Cervantes, Donald Burgess Leonard, Eric Milner Cosper, and Donald Emil Raab.



Northern Region men lunch together. Foreground: Charles W. Britzius and James L. Reynolds. Facing camera: John Trine, Alpha; John A. Moscheck, Beta; Terry Pennaz, Alpha; and John Richards, Beta.



Enjoying a light moment at the Eastern Region luncheon are Ta M. L. Theta; Larry Weeks, Rho; Gary Miller, Rho; and Joe Dyer, Rho.



Sitting together at the Western Region luncheon are David Ramsower, Chi; Richard Thompson, Theta Beta; Jim Hawkins, Lambda; and Bruce McKinstry, Gamma.

The new Executive Council. Standing are William K. Rey, Grand Marshal; George G. Dodd, Grand Inner Guard; John M. Dealy, Grand Outer Guard, and C. Ramond Hanes, Delegate-at-Large. Seated are Robert E. Pope, Grand Scribe; Charles E. Wales, Grand Regent; Jay N. Thorpe, Grand Vice Regent; and Charles W. Britzius, Grand Treasurer.





For the first time ever the Erich J. Schrader Award was a tie between two chapters. Proudly displaying their certificates with the traveling display are Robert P. Thomas, Epsilon Beta Delegate, and William R. Reed, Phi Delegate, representing winning chapters.



Jack W. MacKay, Mu '35, an executive with American Cast Iron Pipe Co., delivered the banquet address prepared by Kenneth R. Daniel, Mu '36, president of the company, who was unable to attend because of illness.



Allan T. Meuse, Chi Delegate, was elected Outstanding Delegate by his fellow delegates. The award was presented by Grand Scribe Bob Pope, himself the 1954 Outstanding Delegate.

The Zeta delegation has its traditional photo taken. Standing: John M. Dealy, Grand Outer Guard; David C. Dwyer; Robert E. Pope, Grand Scribe; Jeff Brann, Delegate; Andrew Russell, Alternate. Seated: William E. Franklin, GEAR Editor; Marjorie Franklin, GEAR Secretary (but not a Theta Tau); George G. Dodd, Grand Inner Guard; William E. Ege.



Past Grand Regent Russell G. Glass reminisced during the Convention Banquet.





Grand Regent Hanes served as toastmaster at the Convention Banquet. Here he reads messages from Founders and others who could not attend the Convention.

of American Cast Iron Pipe, who was unable to be present at the last minute because of illness. The theme of the presentation was "some thoughts on engineering education by an industrialist with an engineering background." The speech traced the somewhat tenuous boundaries of engineering that lie between the functions of the scientist and of the tradesman. The engineer was described as a person who directs the forces of nature to create useful things, but one who in so doing applies scientific principles in the design, construction, and operation, while knowing the limitations of design criteria and the economic implications of this creation.

In the speech, Brother Daniels observed that "Although the number of opportunities and rates of pay have changed greatly in the last 32 years, the fundamentals of success have not changed. There are many ingredients which go to make success: a healthy body and mind; a willingness to work for what you desire; mental discipline; a good education; moral strength to stand for what is right; a spirit of kindness toward your fellows; ability and willingness to cooperate with others; and an eternal dis-

satisfaction with yourself . . . The man or woman who has contributed to human progress will never be satisfied."

Final Session

Weary but still eager, the delegates and national officers came to the final Convention Session on December 30. It was destined to last well into the afternoon before final business of the Convention was completed.

A highlight of this day was election of national officers. After the report of the Nominating Committee a small group of delegates rallied support for a "Committee of the Whole" which was conducted in the absence of all national officers. Brother Russell Glass found himself the only alumnus present as acting chairman. The Convention soon came back to its normal operational procedures and the election of officers was held. Elected as Grand Regent was Dr. Charles E. Wales. Other officers elected were: Jay N. Thorpe, Grand Vice Regent; Robert E. Pope, Grand Scribe; Charles W. Britzins, Grand Treasurer; William K. Rey, Grand Marshal; George G. Dodd, Grand Inner Guard; and John M. Dealy, Grand Outer Guard.

After the dust had settled, the makeup



In Convention session delegates and alternates discuss strategy on the issue on the floor. Left to right are James S. Dozier, Lambda Beta Alternate; Harvill C. Eaton, Lambda Beta Delegate; Larry D. Anderson, Kappa Beta Alternate; and Dale Steen, Kappa Beta Delegate.

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of the Executive Council had changed considerably but mostly in terms of elected position. One man, Dick Lynch, had submitted his resignation as Grand Marshal before the Convention. Bill Rey came back on the Council in this position, and John Dealy was a new addition to the elected Theta Tau leadership. Ray Hanes moved from Grand Regent to Delegate at Large amid a standing ovation by the entire Convention for his dedicated efforts of the previous two years. Brother Bob Pope again was elected Grand Scribe by acclamation and he too received a standing ovation from the Convention as principal guiding force of Theta Tau Fraternity in recent years.

His untiring efforts were obvious to all.

A special tribute was paid to the memory of Founder Hanks when the Convention was named in his honor.

After further business, during which plane schedules were depleting the ranks, the new officers were installed and Brother Wales closed the Convention as his first official act. The delegates returned home with a better understanding of fraternal fellowship after 72 hours of nearly nonstop activity. Another Theta Tau Convention was successfully concluded and is now but a memory to the 118 men who took part.



Significant actions taken at the Convention

- * Adopted a record budget of \$80,350 for the Biennium
- * Raised initiation fees \$3.00 (to \$30.00) and semi-annual dues by \$3.00 (to \$11.00) to keep a black ink budget.
- * Adopted Bylaws amendments that would permit a Colony at a school without ECPD accreditation to become a Theta Tau Chapter under certain conditions.
- * Asked for an interim committee to study the colony program.
- * Adopted a number of changes on procedural matters in the Constitution and Bylaws.
- * Recommended that an annual award be presented to the Chapter with the best newsletter and that THE GEAR carry a "Student Member Notes" section.
- * Emphasized the increasing activity and importance of alumni activity and organizations, professional development programs, and extension to other campuses.

25 Years Ago in Theta Tau

The Editor reported the smallest number of chapter letters ever published and warned members that publication might have to be suspended until after the War.

Alpha Chapter reported that enrollment in the Institute of Technology was five per cent of peacetime enrollment, but the chapter was able to keep going even though decreased in number.

Zeta Chapter rented its house to the Beta Theta Pi's. The chapter was keeping its numbers up with the addition of the Navy V-12 men on campus.

Rho Chapter was living in its first chapter house. The housewarming was held on New Years Eve.

Phi Chapter's mascot, a St. Bernard named Blondie, gave birth to 12 pups.

Omega Chapter was the only active fraternity on its campus. The brothers were quarantined for two weeks when their housemother contracted diphtheria.

(From the Spring 1944 GEAR)

(No GEAR was published in 1919, 50 years ago.)

The New Executive Council



GRAND REGENT DR. CHARLES E. WALES, *Wayne State '53*, is director of freshman engineering program at West Virginia University, Morgantown. Formerly he was associate professor of engineering at Wright State University, Dayton, Ohio. Brother Wales has served Theta Tau as a charter member of Epsilon Beta Chapter, as Grand Inner Guard, Grand Outer Guard, and Grand Vice Regent. He served in the Marine Corps before entering Wayne State, and earned his master's degree in chemical engineering at the University of Michigan and his Ph.D. at Purdue University. The new Grand Regent is a registered professional engineer in Michigan, and a member of AIChE, ASEE, Sigma Xi, Tau Beta Pi, and Omicron Delta Kappa. He is married, and his hobbies include creek walking, pike fishing, and model railroading.



GRAND VICE REGENT JAY N. THORPE, *Utah '57*, is a research engineer for the Boeing Company in Seattle, Washington. His previous service for Theta Tau has included the posts of Regional Director, Grand Outer Guard, and Grand Inner Guard, and he helped establish Zeta Beta and Theta Beta Chapters and the Pacific Northwest Alumni Association. Brother Thorpe served in the Navy in World War II and was recalled into service in Korea in 1950. He is a member of Alpha Phi Omega, IEEE, and the Seattle Professional Engineering Employment Association. He has been active in his church, the Latter Day Saints, and in Boy Scouts. Brother Thorpe was recently honored with the Silver Beaver award of Boy Scouts. He and his wife live in Bellevue, Washington, and they are the parents of two grown daughters and a son.



GRAND SCRIBE ROBERT E. POPE, *Kansas '52*, continues to serve Theta Tau full time as Executive Secretary with his headquarters in St. Louis. During his service to the Fraternity he has visited each of the 30 chapters and has attended every Theta Tau Convention since 1950. Brother Pope has been Grand Scribe since 1956 and has been employed full time by Theta Tau since 1959. He is a member of Sigma Tau, Tau Beta Pi, Phi Lambda Upsilon, Omicron Delta Kappa, and the Engineers' Club of St. Louis. He also is an associate member of the AIChE, a senior member of the American Chemical Society, and a registered professional engineer. He is currently serving as secretary of the Professional Interfraternity Conference. Brother Pope is a member of the Administrative Board of Grace United Methodist Church in St. Louis. His hobbies include participation sports and photography.

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GRAND TREASURER CHARLES W. BRITZIUS, Minnesota '33, is president of Twin City Testing and Engineering Laboratory, Inc., and Soil Exploration Company, St. Paul, Minnesota. He has served Theta Tau as Grand Regent, Grand Vice Regent, and Grand Outer Guard. Brother Britzius' civic activities include serving as mayor of the Village of Deephaven, as chairman of the Southwest Sanitary Sewer District Board, as chairman of the Health and Safety Committee of Viking Council, Boy Scouts of America, as a member of the board of Midway Civic Club, and as vice president of LCA Minnesota Synod Churchmen. In the past he has held national offices in NSPE, ASTM, and ASCE. He and his wife have six children.



GRAND MARSHAL PROF. WILLIAM K. REY, Alabama '46, is not new to the Executive Council, having served as Grand Regent, Grand Vice Regent, and Grand Outer Guard. He also is faculty adviser for Mu Chapter. Brother Rey is chairman of aerospace engineering and director of the Solid Mechanics Division at the University of Alabama. He is a member of AIAA, ASEE, the Air Force Association, AAUP, Tau Beta Pi, Pi Mu Epsilon, Sigma Gamma Tau, Omicron Delta Kappa, and AAAS. He is a registered professional engineer and is listed in *American Men of Science*. Brother Rey has done research for NASA. Brother Rey and his wife are the parents of a son and a daughter.



GRAND INNER GUARD DR. GEORGE G. DODD, Kansas '60, is a senior research engineer at General Motors Research Laboratories in Warren, Michigan. The "Outstanding Delegate" of the 22nd Biennial Convention, he has previously served Theta Tau as Grand Outer Guard, Regional Director, and as an interim committee chairman. Brother Dodd earned his Ph.D. in electrical engineering at the University of Illinois in 1964. He is a member of NSPE, IEEE, the Association of Computing Machinery, Sigma Xi, Tau Beta Pi, Eta Kappa Nu, Sigma Pi Sigma, and Sigma Tau. He is active in the Episcopal Church and is a member of Masonic orders. Brother Dodd and his wife are the parents of two daughters and a son. His hobbies include flying and bowling.



GRAND OUTER GUARD DR. JOHN M. DEALY, Kansas '58, joins the Executive Council after serving as Regional Director and as chairman of various interim committees. He is associate professor of chemical engineering at McGill University, Montreal, Canada. Brother Dealy earned his Ph.D. at the University of Michigan in 1964. He was elected the "Outstanding Delegate" at Theta Tau's 21st Biennial Convention, and is a member of Tau Beta Pi, Sigma Tau, Phi Lambda Upsilon, Omicron Delta Kappa, and AIChE. Currently he is president of the McGill Association of University Teachers. Brother Dealy and his wife are the parents of a daughter.



Beta's Snow Statue Places First

by Larry A. Brown, Beta '70

Winter Carnival is the most popular social event on the Michigan Tech campus. This year's Carnival was entitled "Ice-Terical History," and the dates were February 6-9. The theme encouraged the organizations to build snow statues which would depict events in history, fictional or true, which could be humorously twisted. Beta decided upon the idea of General Charles DeGaulle towing the Statue of Liberty back to France. We felt that the 27-foot high statue with a 10-foot replica of DeGaulle would be impressive enough to win.

Most of the planning took place in the second week of January to allow us about a month's time to build. Head chairman, Ed "Dumbo" Niedbalski organized the plan-

ning and work shifts along with sub-chairmen Kevin Slattery and Mike Malloy.

As the snow was piled up and began to take shape, speculations were being made as to what we could use as a link between DeGaulle and the Statue and how it could enhance the overall effect. Ed came through with the order to create a 55-foot long ice chain. Many members gave him curious looks of doubt after he made this suggestion, but all agreed it would be the finishing touch if it could be done. An able-bodied "chain gang" including Dan Berlin, Mike Sutkowi, Tom Biernat, and Rog Mechon came to the rescue with chicken wire, patience, and cold hands. The problem was link support and whether or not the chain could be suspended for any length of time. The chicken wire did the job, however, and the links were set outside the house to freeze until four hours before judging, when they were taken to the statue site.

The judging was at 9:00 a.m. on Thursday and the campus was alive all of Wednesday night and into the next morning. The tedious work was broken up by the generosity of President and Mrs. Smith, on whose lawn we build our statue every year. Many work nights during that month saw the brothers taking a break in front of the Smith's fireplace and enjoying the refreshments they provided.

The work was done at 8:00 a.m. on Thursday and the crew headed home for breakfast and sleep. Judging results weren't to be ready until noon and everyone was predicting the chances for a first place. Our expectations were satisfied as Regent Mechon phoned in the good news that "Big Charlie" had pleased the judges enough to gain that first place honor on Class A. Twenty-two entries were built in two classes.

We were fortunate in that the statue was actually a political cartoon in ice. This made it ripe for wide coverage in the news media. The caption was "Da Gall of Dat



Beta's snow statue at Michigan Tech's Winter Carnival won first prize this year. The 27-foot statue shows General De Gaulle towing the Statue of Liberty back to France. The caption was "Da Gall of Dat Guy!"

Guy" and left little doubt as to who the snow villain really was. Alumni sent AP and UPI photos from as far as Florida and California with notes of congratulations. The MTU News Bureau reported that the picture also appeared in papers in New York, Iowa, Wisconsin, and Illinois. The

real surprise came when we were told of its release over the international wire and how the name of Theta Tau appeared in papers from Yugoslavia to the Panama Canal Zone. It is reputed to be the most publicized snow statue in Winter Carnival history, and we are hoping to do as well next year.

The Grand Regent's Message

What Does Your \$22 Buy?

Your delegates to the Twenty-Seventh Biennial Convention of Theta Tau elected new Executive Council officers and issued a mandate to these men to move Theta Tau into the seventies with a responsible, progressive program that suits the times. The delegates supported this mandate with an increase in dues and fees that will bring in the money required to put Theta Tau in a sound financial position. No more deficit spending, we will pay for the services we want. Some members may have been shocked by this dues increase. But I expect most will applaud the honest, business-like, actions of their brothers.

Those of you who question \$22 per year national dues *should* ask yourself, your brothers, your chapter officers, your alumni, and your national officers what you get for your investment. What does \$22 buy? Have you ever asked? Are you getting your money's worth?

Twenty-two dollars buys you and your brothers an important and varied experience. It buys you a delegate to our national Convention, and possibly, the expenses for an alternate and several observers. The Convention is quite an experience. Ask your delegate how many hours he put in. Ask him if he was amazed to see men assemble from chapters all over the country and immediately work together like brothers from a single chapter. Ask him what he learned about the character and quality of Theta Taus from other chapters. Ask him

what he learned about the complexities and compromises of national legislation.

Twenty-two dollars buys you and your brothers an opportunity to attend a regional conference. A chance to share your experiences, problems, ideas and innovations with from one to several carloads of brothers from other chapters. The regional is a time to explain, listen, learn and prepare ideas for the next convention. It is a time to find a better way to operate your chapter or perhaps your life.

Twenty-two dollars buys you the opportunity to participate in a brotherhood of outstanding men, past, present and future. It makes you part of the tradition of Theta Tau, the oldest and largest engineering fraternity. It makes you a brother to talented men in business, industry, education, and government service. It makes you a brother of current leaders, our alumni, and potential leaders, your chapter brothers. It gives you a chance to learn: how to take orders as a pledge, how to give orders as a member, how to serve, how to lead, how to cooperate, how to compromise for the common good. It gives you a chance to test your ideas and abilities in a climate of friendship and brotherhood. It gives you an experience you can get only in a group like Theta Tau. It gives real meaning to your college days. Days which would otherwise be spent at an impersonal knowledge factory, identified by a number, ignored by the faculty, taught by TAs, and pushed

around by special interest groups. It gives you a chance to learn. If the Theta Tau experience did not provide these values, this Fraternity would not have survived for 65 years.

Twenty-two dollars also buys you an opportunity to serve as an officer and gain the special experience this service provides. If your chapter has a house, your \$22 buys you an opportunity to learn how to share, manage, budget, and buy. If you don't have a house it gives you a chance to solve the problem of creating an atmosphere of brotherhood in a less than desirable environment. It gives you a chance to work with friends on projects: Engineers' Day, Homecoming parties, pledging. It gives you a chance to compare your chapter's operation with that of the other chapters through the Schrader Award. And it gives you the GEAR, a vital contact between chapters and an invaluable link with the alumni.

Twenty-two dollars also buys you details and deadlines. Forms to be completed, for pledging, for pending initiation, for initia-

tion, for badges, for elections, for dues, for membership status change, for alumni address, and an annual report. Is this good experience too? Ask an alumnus—he can tell you it is.

Twenty-two dollars buys you a chapter advisor you can talk to. It buys the services of an excellent Executive Secretary, Bob Pope, and the help of a Central Office. It buys you advice from someone who has had or heard about most of the problems you face. It buys you a visit, whenever possible (or requested), by a Regional Director or national officer. It buys you the help of alumni and sometimes the help of an Alumni Association. It buys you the stability of a continuing national operation.

If you are not getting your money's worth, you should be asking questions. We hope you will. Your ideas are welcome. Those of us who give freely of our time to Theta Tau do so because we believe in its past value, present worth, and future potential. We hope you join us in this vision.

CHARLES E. WALES

Contributors to Theta Tau Progress

UNRESTRICTED GIFTS

Theta Tau acknowledges with gratitude the unrestricted gifts received from the following members:

Howard Barth, Phi '38
R. P. Baumgartner, Iota '28
Frank E. Bunce, Mu '41
Arthur F. Cervena, Theta '41
William W. Collins, Iota '50
Francis W. Cook, Nu '26
William T. Cousins, Omicron '66
Harold E. Crampton, Tau '35
James O'Hara Denny, III, Nu '43
John E. Dodge, Gamma Beta '54
Edwin B. Dunn, Pi '39
James W. Garrett, Beta '49
George Perry Greene, Rho '44
Harold F. Greiner, Tau '44
C. Raymond Hanes, Sigma '34
John William Kleinhans, Theta Beta '67
Arthur E. Koski, Gamma Beta '57
Lindsay L. Lenhart, Omicron '53
William M. Lewis, Founder
John William Lubbeck, II, Phi '68
Benjamin G. Marcus, Nu '43
R. J. Mechin, Gamma '19

Paul C. Menster, Delta '48
Graham B. Moody, Epsilon '12
Clarence W. Mowery, Alpha '08
L. Melvin Nelson, Eta '23
Walter K. Neubauer, Tau '49
Wayne F. Niskala, Delta '68
P. Clifford Perry, Epsilon '52
Terry H. Richard, Xi '57
Donald G. Schmidt, Iota '48
Otto L. Schmitt, Gamma '35
Donald E. Seely, Sigma '66
Richard D. Snow, Sigma '37
Bernald E. Starr, Beta '67
Herbert A. Swift, Alpha '34
William P. Von Behren, Delta '25
John W. Walker, Jr., Gamma '68
David A. Winer, Tau '50
James H. Wingard, Mu '22

FOUNDERS' MEMORIAL FUND

Theta Tau acknowledges with gratitude the gifts to the Founders' Memorial Fund received from the following members:

H. Bruce Baty, Delta '44
William J. Ellenberger, Gamma Beta '30
Wayne H. Traffas, Alpha '59

London Revisited—1968

by William J. Ellenberger, George Washington '30

This is a sequel to "An Engineer's Observations in London" published in the Spring 1947 issue of *The Gear*. It is based on notes made during a five week trip to England last summer to visit World War II military and civilian friends.

Many changes have taken place since I left London at the end of World War II. Most of the scars of war have been obliterated but a few shored buildings and gaping holes remind one of the "blitz."

Architecturally the most significant change is high rise buildings. Much high rise construction, both office buildings and blocks of flats, is under way. High rise construction is dictated by high land prices, so much so that tall buildings are found far from the city proper. I feel the architects have done a good job of blending new buildings with adjacent ones, some of which are over 100 years old. For example, the bombed out area around St. Paul's Cathedral has been entirely rebuilt with improved street layout, broad walks and plazas, pedestrian ramps and high rise office buildings.

Bored caisson foundations are common and building frames are reinforced concrete. Steel reinforcing bars are different from ours. The large ones are made from square bar stock twisted in a spiral. Small bars, less than 3/4 inch diameter, are not deformed. Waterproofing was applied to the exterior face of the building frame several floors above the street. Some curtain walls are precast concrete panels but many are brick. Apparently labor cost has not influenced the use of brick to the extent it has in the U.S. The scarcity of lumber dictates maximum substitution, therefore tubular steel scaffolding with patent clamps is used. Plywood is used for concrete forms.

London suffers from the same traffic problems found in other large cities with narrow streets and high traffic density. To alleviate this, vehicle underpasses have been built within the city and in outlying areas. Alternatively "flyovers" are built to carry the main stream of traffic over intersections where several streets or roads meet. There are pedestrian subways in the city and elevated walkways over heavily traveled country roads. Both in town and in the country safety fences prevent pedestrians from crossing roadways at dangerous traffic points.

Despite a vast railway network, road transport of cargo is growing rapidly. Likewise, passenger automobile traffic on main highways is heavy. Out from London I noted highway construction projects to bypass towns and bridge valleys but main roads do not compare with similar class roads over here.

The government-owned British Railways are still the major means for mass movement of people and cargo. I read recently that there are more miles of railroad in the U.K. than in the U.S. This is a significant statistic considering the difference in land area. Commuter trains in the London area



move thousands of people daily. The importance of this service was accentuated last summer during the railway "shutdown" which caused great inconvenience. In order to cut operating deficits British Railways have taken up duplicate track and closed many "signal boxes." As in the U.S., diesel power and electrification have replaced the steam locomotive. Diesel-electric locomotives are used on non-electrified main lines. Diesel rail cars are used on branch lines and in some commuter service. On the electrified lines from London to Birmingham and London to Norwich the overhead

catenary is lighter than that found over here. Both cross-tied wood and precast concrete ties are used and rails are bolted rather than spiked in place. Some ribbon rail has been installed; this greatly reduces train noise. A 94 mile trip from London to Coventry by electric train was made at an average speed of 72.5 mph including one intermediate stop. On this line the train goes through Kilsby Tunnel. Railway buffs will recall that when Robert Stephenson built the London and Birmingham Railway (completed in 1825) Kilsby Tunnel was the most difficult piece of construction. Much of this early railway infrastructure is still in place and in good condition. Bridges carrying roadways over the railroad, retaining walls and other wayside structures are of brick. Milliums were used in this work.

The London Underground is one of the finest rapid transit systems in the world. The \$192 million Victoria Line, now under construction, will be highly automated. The complexities of its connections with existing lines at Victoria Station are revealed in a three-dimensional model in the Science Museum.

Since World War II tram cars and trolley buses have disappeared from the streets. All surface transportation is by diesel powered buses, most of which are open vestibule, double deck, rear entrance and exit. Some single deck, front entrance and exit, buses are used in express service to and from outlying areas.

Since nationalization of the electric power industry many steel tower high voltage transmission lines have been built to connect atomic, fossil fuel and hydro-electric power plants with major load centers. However, almost without exception local electric distribution (and telephone lines) are underground. Transformers and switchgear for large customers are located in building vaults. In outlying areas transformers and switchgear are mounted on concrete pads in fenced enclosures blending with their surroundings.

Many miles of gas transmission lines are being built to distribute gas from North Sea wells. The greater use of gas will alleviate air pollution but will adversely affect the depressed coal industry.



Alumni News

Douce and Hubbell in High Positions at Phillips

WILLIAM C. DOUCE, *Kansas '42*, and CHARLES W. HUBBELL, *Kansas '26*, have been advanced to high positions by Phillips Petroleum Company of Bartlesville, Oklahoma.

Brother Douce is now senior vice president of the company. He joined Phillips following his graduation in chemical engineering, and was first employed at the Phillips, Texas refinery. He then became a refining engineering supervisor in the department's headquarters in Bartlesville.

In 1955 Brother Douce was named district manager of Phillips' plastic sales office in New York. He returned to Bartlesville in 1959 to become assistant director of the Rubber Chemicals Division. In 1962 he was named director of the Plastics Division, and the following year he became vice chairman and then chairman of the company's operating committee. Brother Douce was advanced to manager of the chemical department in 1966, and he was promoted to his present position in January 1969.

He has served as president of two Jaycee organizations and as Oklahoma State Jaycee president. He is a director and member of the executive committee of the Oklahoma Chamber of Commerce and is president of the Oklahoma Safety Council. Brother Douce has also served as a Bartlesville city commissioner, chairman of the Community Fund campaign, president of the Washington County Health and Service Fund, president of the Bartlesville chamber of commerce, trustee of the Jane Phillips Episcopal Hospital, and member of the advisory board of the Greater University Fund of the University of Kansas. He is a member of the Presbyterian Church, Masonic Lodge, Phi



William C. Douce

Gamma Delta, Tau Beta Pi, and Sigma Tau.

CHARLES W. HUBBELL has been named vice president in charge of Phillips' Engineering Department. He joined the company after graduating with a B.S. degree in civil engineering. He served as a draftsman and engineer at Bartlesville and various field offices until 1935, when he became assistant department manager.



Charles W. Hubbell

From 1942 to 1946 Brother Hubbell was primarily concerned with work on the Plains butadiene plant near Borger, Texas, a wartime synthetic rubber program. Another important responsibility was supervision of the design and construction of the 19-story Phillips Building in Bartlesville. Brother Hubbell was named manager of the Engineering Department in 1964, and he assumed his present position January 1, 1969.

He is a registered professional engineer in six states and has served as a state director of the Oklahoma Society of Professional Engineers. He is a Fellow of the ASCE, a member of NSPE, and serves on the American Petroleum Institute's interdivisional committee on standardization. He is listed in *Who's Who in Engineering* and holds two patents relating to cavern mechanics.

Brother Hubbell has also been active in civic affairs, including serving as chairman of the Metropolitan area planning commission of Bartlesville.

Brown Heads Illinois Bell Telephone

CHARLES L. BROWN, JR., *Virginia '43*, has been elected president of Illinois Bell Telephone Company with headquarters in Chicago.

He began his career with the Bell System in the early 1940's as a summer employee in the Long Lines Department. During World War II Brother Brown served as a lieutenant in the Navy.

He rejoined the Long Lines Department in 1946 at Hartford, Connecticut. He has since held many engineering, administrative, and personnel posts at various locations within the Bell System, including New York, Birmingham, Kansas City, Philadelphia, Atlanta, and Cincinnati. In 1963 Brother Brown joined Illinois Bell as vice president and general manager of Chicago operations. He has been vice president-



operations and a director of the company since 1965.

Brother Brown is also a director of the Harris Trust and Savings Bank, Inland Steel Company, and the Better Business Bureau of Chicago.

He has been active in civic and charitable organizations, serving as team captain of the Metropolitan Crusade of Mercy, vice president of the Board of Managers of the YMCA of Metropolitan Chicago, past presi-

dent and board member of the Chicago Travelers Aid Society, a director of the Chicago Community Fund and Lake Forest Hospital, a member of the Board of Lay Trustees of Loyola University, and trustee of Lake Forest College. He is also an elder in the First Presbyterian Church of Lake Forest. He is a member of Delta Upsilon and Omicron Delta Kappa.

Brother Brown and his wife live in Lake Forest, Illinois. They have a son.

Past Grand Regent Daniels Retires Again



DR. JOHN M. DANIELS, *Carnegie Tech Hon. '22*, Past Grand Regent, has retired as director of admissions for Mount Mercy College, Pittsburgh, Pennsylvania, and reports that he is enjoying a leisurely life in the country. Brother Daniels has recently been honored by Theta Xi Fraternity with its Order of the Golden Star, by the Middle States Association of Collegiate Registrars

and Officers of Admission with a certificate of honorary membership, and by the Board of Trustees of the Kiskiminetas Springs School with election to the position of trustee emeritus.

Brother Daniels had a long career with Carnegie Institute of Technology, beginning as a member of the faculty in 1922. From 1939 to 1963 he served continuously as director of admissions and supervisor of freshman scholarship. He is now director of admissions, emeritus.

From 1963 until his recent retirement, he served as director of admissions for Mount Mercy College.

Brother Daniels has been very active in professional and civic affairs. He was president of the Middle States Association of Collegiate Registrars and Officers of Admissions, a trustee of the Kiskiminetas Springs School from 1949 until his emeritus appointment, and adviser to the Theta Xi chapter at Carnegie Tech. He served on the Theta Tau Executive Council from 1931 to 1939, and was elected Grand Regent in 1937.

He was awarded a doctor of education degree by Duquesne University in 1948. Brother Daniels is a member of Alpha Phi Omega, Omicron Delta Kappa, Phi Nu, Phi Kappa Phi, Theta Xi, Phi Delta Theta, Masonic Orders, and the Methodist Church.

He and his wife have a daughter, a son, MAJOR JOHN M. DANIELS, JR., *Missouri at Rolla '55*, and five grandchildren.

Joseph de Cillis is Vice President of Pfizer Labs



JOSEPH L. DE CILLIS, *Columbia* '48, has been named vice president—sales for the

Pfizer Laboratories Division of Chas. Pfizer & Co., Inc. Brother de Cillis joined Pfizer in 1948. He served in various production positions at Pfizer facilities in Brooklyn and Groton, Conn., until 1952 when he was appointed assistant manager of the New Products Coordination Department. He became manager of that department two years later, and in 1955 he was appointed director of marketing research.

In 1958 Brother de Cillis was assigned to Pfizer International as manager of the Moreno, Argentina plant, then under construction. He was appointed pharmaceutical sales manager for Pfizer Argentina in 1961. In 1963 he returned to the United States to become director of operations of Pfizer Diagnostics. Later he served as director of marketing and director of sales for the Pfizer Laboratories Division.

Brother de Cillis holds both an A.B. degree from Columbia College and a B.S. degree in chemical engineering from the Columbia School of Engineering. He recently completed the Executive Program in Business Administration at Columbia University.

Delta Chapter alumni from the years 1909 to the late twenties hold an annual reunion. At this year's gathering on September 6, plaques were awarded to Paul M. Savage, Case '22, and Herbert A. Wicks, Case '22, both seated. Welby E. Gillette, Case '20, and Walter R. Hoffman, Case '18, Committee co-chairmen, are standing in the photo. The wording of the plaques was "To Paul M. Savage and Herbert A. Wicks, whose untiring efforts over the years have, by the flow of good fellowship from their hearts, made another one of these memorable occasions possible: we of Theta Tau here assembled present these tokens of our appreciation."



Captain Sobieralski Retires

CAPTAIN V. RALPH SOBIERALSKI, *Syracuse '31*, has retired after 34 years of service with the federal government. Most recently he was acting associate director of geodesy and photogrammetry at the Coast and Geodetic Survey. He is a member of the commissioned corps of the Environmental Science Services Administration, parent body of the Coast and Geodetic Survey in the U.S. Department of Commerce. His career with the Coast Survey has taken him to many parts of the world.

Brother Sobieralski was a civil service employee for seven years before being appointed in the commissioned corps. During World War II he served as an army artillery officer in Europe.

While with the Coast Survey, he served with geodetic field parties and with 10 Coast Survey vessels off the coasts of the United States and in the Pacific. He was commanding officer of the USC&GS Ships *Surveyor* and *Hydrographer*. He also served as chief of the Portland, Oregon Photogrammetric Office, the Tampa, Florida District Office, and the Photogrammetry Division in Rockville, Maryland.

Brother Sobieralski is a member of numerous societies, including ASCE, Society



of American Military Engineers, and Sigma Phi Epsilon. He and his wife will live in Tampa, Florida.

In Memoriam

GEORGE ANDREW ANDERSON, *Michigan Tech '06*, died recently in Long Beach, Calif.

ROBERT APJONES, *Minnesota '16*, died February 26, 1969. He had retired from the General Electric Co. in 1957 as manager of installation and service engineering, New York District. He was employed by G.E. for over 40 years. Brother Apjones was a Fellow of IEEE and a member of Phi Kappa Psi, the New York Electrical Society, and the New York State Society of Professional Engineers.

JOHN S. APPLIGATE, *Case '15*, died October 27, 1968.

KENNETH R. BOWIE, *Colorado Mines '30*, died July 18, 1968 near Pettus, Texas. He was president and co-owner of the Ballard Well Service. After graduation Brother Bowie was employed by

Juanita Coal & Coke Co., Empire Oil & Refining Co., and the U.S. Geological Survey. During World War II he was a major in the Corps of Engineers. Brother Bowie was a member of Alpha Tau Omega and Blue Key. He is survived by his wife, two sons, his mother, two sisters, one brother, and two granddaughters. (*The Mines Magazine*)

OTTO C. BUBBE, *Case '12*, a charter member of Delta Chapter and former Editor of *THE GEAR*, died January 17, 1969 in Cleveland, Ohio. He had retired in 1951 as a teacher of mathematics at Cleveland Heights High School. He also taught manual training at Roosevelt Junior High School, Cleveland Heights. Brother Bubbe was a member of First Baptist Church of Cleveland and Lake Erie Wildflower Club. He is survived by his wife, two daughters, and a sister.

THE GEAR OF THETA TAU

BERNARD D. CADWELL, *South Dakota Tech '31*, died suddenly September 6, 1968. He was owner of Dakota Bed-lime Pre-Cast and Bed-lime Concrete of Mitchell, S.D. Previously he worked for G. H. Lindekugel and Sons for 15 years. Brother Cadwell was a member of several Masonic orders, the Elks, V.F.W., and the Mitchell Park Board. He was an active supporter of sports programs for youngsters. Brother Cadwell is survived by his wife, three sons, and two daughters. (*The Hardrock*)

JOSEPH JAY DILRENCE, *Alabama '34*, died July 21, 1967 in Miami, Fla. He was a partner of Blackwell, Walker & Gray, Attorneys at Law, in Miami. Brother Dilrence was a deacon of the Miami Shores Presbyterian Church. He is survived by a daughter and a sister.

JOHN H. EAST, JR., *Colorado Mines '10*, died December 14, 1968 in Denver, Colo. He retired in 1960 from the U.S. Bureau of Mines after nearly 30 years' service. During his career Brother East worked for many mining firms, including the Oliver Iron Mining Co., the Chale Copper Co., the Deever Rock Drill Co., the Locust Mountain Coal Co., the U.S. Gypsum Co., J. Robert Bazley, Inc., Banner Coal Co., and F. H. Norberg, Inc. He served the Bureau of Mines in Tucson, Salt Lake City, and Denver. In 1945 he went to Europe to obtain information on mining, mineral resources, and the possibilities for restoring mine production for the guidance and use of the War Production Board, Bureau of Mines, State Department, and War Department. Brother East was the author of many technical papers and assisted in preparing standards. He was a member of AIME, the Rocky Mountain Coal Mining Institute, American Society of Safety Engineers, Coal Mining Institute of America, Colorado Scientific Society, and Denver Mining Club. In 1953 he received the Distinguished Achievement Award of Colorado School of Mines, and in 1958 he was granted the Distinguished Service Award of the Department of the Interior. Brother East is survived by a son. (*The Mines Magazine*)

DR. M. GUY EDWARDS, *California (Berkeley) '12*, died February 25, 1969 in Pasadena, Calif. He was educated at the University of Wisconsin and California, and taught at Case Western Reserve University and at the University of California, Berkeley. He spent five years in Moncocha, Peru, as chief geologist for the Cerro de Pasco Mining Co., and he worked for Shell Oil Co. as chief geologist and exploration manager. At the time of his death Brother Edwards was working as a consultant. He was a member of the University Club of Los Angeles, Petroleum Club, Pasadena Investors and Thrift Club, AAFG, Geological Society of America, and Sigma Xi. He is survived by his wife, a sister, two brothers, and nieces and nephews. An M. Guy Edwards Memorial Scholarship Fund has been set up at Harvey Mudd College, Claremont. (*Pasadena Star-News*)

FRANCIS HARLAND FREDERICK, *California (Berkeley) '30*, died in Berkeley, May 2, 1968. Brother Frederick was born in Alameda, California, February 28, 1907, the descendant of a pioneer mining

family of California. After attending the public schools of Berkeley, he attended and was graduated from the University of California at Berkeley in 1932, majoring in chemistry, mineralogy, and geology. While at Berkeley, Fran rowed on two successive Olympic champion eight-oared crews, those of 1928 and 1932. From 1932 to 1934, he was a graduate student and teaching assistant in mineralogy in the Department of Geological Sciences. In 1934, he began his full-time career as a consulting mining geologist, a career which he pursued with considerable professional success for the rest of his life. He maintained his professional headquarters in San Francisco after 1948, but worked for a number of mining companies in the western United States, Canada, and South America. Fran is survived by his widow, Mary Elizabeth Sperry Frederick, and five children, Francis H., Jr., Milcent, Douglas, David, and Mary, all of Berkeley; by his mother, Adeline Harland Frederick, of Berkeley; and two brothers, Harland Frederick, of Orinda, and Ellis Harland Frederick of San Mateo. He was a scientist of integrity and a true and honest friend and brother.

(ROBERT R. COATS, *California (Berkeley) '31*)

CHARLES GILBERT FVYIE, *Michigan Tech '26*, died August 12, 1968 at Helmer, Mich.

FELIX D. GEISLER, *George Washington '47*, died February 29, 1968 in Harrisburg, Pa. He was a special assistant in data processing to the chief engineer of the State Highways Department. Brother Geisler attended Lynchburg College, the University of Virginia, and George Washington University. He was employed by the U.S. Bureau of Public Roads and the engineering firm of Gantert, Fleming, Curly and Carpenter before joining the Highways Department. He was a member of Market Square Presbyterian Church, Sigma Tau, NSPE, the Pennsylvania Society of Professional Engineers, the Institute of Traffic Engineers, and the American Association of State Highway Officials. Brother Geisler was a past president of the Engineers Society of Pennsylvania. He is survived by his wife, a son, his mother, and a sister.

ROY M. GOAR, *Arizona '31*, charter member number one of Chi Chapter, died March 22, 1969 in Kansas City, Mo. During his career Brother Goar worked as an electrical engineer for the General Electric Co.; Black & Veatch, Consulting Engineers; and the Kansas City Power & Light Co. He was a Fellow and district chairman of the AIEE. Brother Goar is survived by a son, two daughters, a brother, a sister, and four grandchildren. (*Kansas City Star*)

JOHN F. GROWELLE, *Care '17*, died March 12, 1969 in Dade City, Fla. He was dean of mathematics at St. Leo Preparatory School, St. Leo, Fla.

PAUL EUGENE HINCKLEY, *Michigan Tech '14*, died July 10, 1968 in Southfield, Mich.

ARCHER LEBARON JONES, *Virginia '37*, died July 13, 1968. He was a lifelong resident of Hampton, Va. and was employed in the Cost Engineer De-

partment of the Newport News Shipbuilding and Drydock Co. Brother Jones was a member of the executive board of the Episcopal Diocese of Southern Virginia.

LEONARD H. KRILL, *Care* '20, died September 7, 1968 in Cleveland, Ohio. He was founder and former board chairman of the Leonard H. Krill Co., an industrial development and general contracting firm.

RUDYARD E. LAUBY, *Care* '21, died November 5, 1968. He had retired in 1964 as a development engineer for National Screw and Mfg. Co., Cleveland, Ohio.

EDGAR RICE LOCKE, *Colorado Mines* '28, died October 9, 1968 in Potomac, Md. He was employed by American Overseas Petroleum Limited for the past 10 years as a manager in Brisbane, Australia. He was executive vice president of the Australian American Association and president of Queensland Petroleum Explorations Society. He was a founder and president of the American Chamber of Commerce in Brisbane. During World War II Brother Locke was a major in the Army. He is survived by his wife, a son, a daughter, a brother, two sisters, and five grandchildren. (*Mines Magazine*)

ARMOR B. MARTIN, *Colorado Mines* '23, and his wife were lost and presumably killed June 22, 1968 while on a flight to Orofino, Idaho to participate in concrete pouring ceremonies at Dworshak Dam. Brother Martin served in France in World War I and was discharged a second lieutenant. He then attended Colorado School of Mines and after graduation worked for American Zinc, Lead & Smelting Co., American Smelting & Refining Co., and American Zinc. He then became an independent operator in Montana. In 1929 Brother Martin joined Montana Power and he became the utility's chief engineer in 1948. In 1953 he moved to Spokane, where he joined Washington Water Power Co. Eventually he became a vice president of that firm. Brother Martin was an owner of Cut Bank Gas Co. and Amex. He was a member of Rotary, the Chamber of Commerce, the Spokane Club, and Spokane Country Club. He was a past president of the Associated Engineers of Spokane, which named him "Engineer of the Year." In 1952 he received the Colorado School of Mines Distinguished Achievement Award. Brother Martin and his wife are survived by a son and a daughter. (*Mines Magazine*)

CLARENCE W. MOWERY, *Minnesota* '08, died December 19, 1968 in St. Paul, Minn. From 1910 to 1920 he worked for the Northern Pacific Railroad, and from 1940 to 1960 he was purchasing agent for the Curtis Hotel, Minneapolis, Minn. Brother Mowery is survived by a son, two daughters, two brothers, and three grandchildren.

RICHARD A. PARKER, *Missouri at Rolla* '33, was killed in an automobile accident on October 12, 1968. He was superintendent at Allied Chemical Company's facility in Owensville, Mo.

CHARLES LOUIS PETZE, JR., *MIT* '25, died January 29, 1968. He was chairman of Delaware Research and Development Corp., Wilmington, Del. During his career he was employed by MIT, E. I. du Pont de Nemours & Co., Inc., and National Vulcanized Fibre Co. In 1950 he became chairman of the Delaware Research and Development Corp. Brother Petze held several patents in the high polymer field. He was a member of Sigma Nu, Pi Delta Epsilon, SAE, ACS, AAAS, AIEE, and the National Research Council Conference on Electric Insulation. He was a senior member of IRE. Brother Petze was listed in *Chemical Who's Who, Who's Who in the East, Who's Who in Commerce and Industry, and American Men of Science*. He is survived by his wife, three sons, and a daughter.

MORTON RABINEAU, *Gamma Beta* '41, died November 30, 1968 in Washington, D.C. He was an engineer with the Defense Intelligence Agency. During World War II Brother Rabineau worked as an architect with the Navy Department and was instrumental in the development of a lighting system which is used for night landings on aircraft carriers. Brother Rabineau is survived by his wife, his parents, and a brother. (*Washington Post*)

KENNETH C. RICHMOND, *MIT* '17, died January 20, 1969 in Garden City, N.Y. He was executive vice president of Abraham & Straus and vice president of Federated Department Stores, Inc. During World War I he served as an ensign in the U.S. Naval Reserve and was awarded the Navy Cross. From 1920 to 1922 Brother Richmond was with the firm of Miller, Franklin, Basset & Co. and then he was controller of the Stein-Bloch Co. In 1928 he joined Abraham & Straus and he advanced to become executive vice president in 1964. Brother Richmond was noted for his work in taxes and in the pioneering of the concept of revolving credit. He was a member of Alpha Delta Phi and Eta Mu Pi, a founder and past chairman of the board of the New York State Council of Retail Merchants, past president of the New York Retail Dry Goods Association and the Metropolitan Controllers' Association, Inc., and a member of the National Retail Dry Goods Association. He was a trustee of the Citizens Budget Commission and a director of the Brooklyn Chamber of Commerce and the Downtown Brooklyn Association. He also served on Governor Averill Harriman's Business Advisory Committee. Brother Richmond is survived by his wife, a son, three daughters, a sister, and 17 grandchildren. (*The New York Times*)

LARRY GLEN RYLAND, *Missouri at Rolla* '09, was killed in an automobile accident on May 20, 1968 near St. Louis. Brother Ryland was valedictorian of his class at Odessa, Missouri High School, where he was active in many organizations. He lettered in football and basketball and was president of the National Honor Society. At the University, he was a member of Alpha Phi Omega and Intercollegiate Knights. He was elected Commander of Sigma Nu, Inner Guard of Theta Tau, and vice president of the Interfraternity Council. He had been on the Dean's Honor Roll two semesters and played intramural football. Brother Ryland

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is survived by his parents, a brother, a sister, and grandparents.

JOHN C. SCOTT, Case '14, died May 4, 1966 in Cleveland, Ohio.

GEORGE F. STRABLE, Michigan Tech and Colorado Mines '28, died October 25, 1967 in Detroit, Mich.

RUSSELL EUGENE TILTON, Michigan Tech '32, died April 1, 1968 in Worthington, Ohio.

ELL TORRANCE, JR., Minnesota '09, died October 9, 1968 in Minneapolis, Minn. He was a retired vice president and director of Baker Properties, Inc. Brother Torrance began his business career with Thorpe Brothers, and joined Baker Properties in the late 1920s. He retired from the firm's board of directors in 1955 but continued as vice president in a consulting capacity. Brother Torrance was a member of the First Metropolitan Airports Commission, and was past president of the Minneapolis Athletic Club, the Minneapolis Hotel Association, and the Minneapolis Building Owners and Managers Association. He was past national secretary of the Building Owners and Managers Association. Brother Torrance is survived by his wife, two daughters, and a son. (Minneapolis Star)

RALPH B. WAGNER, Michigan Tech '10, died October 19, 1968. He is survived by his wife in Asheville, N.C.

ROBERT M. WHEELER, Colorado Mines '08, died March 1, 1968 at his home in Austin, Texas. For 30 years after his graduation, he was employed in various engineering and managerial capacities

by such firms as Bay Consolidated Copper Co., Partridge Hot Blast Furnace Co., American Zinc & Chemical Co., Big Reserve M & M Co., Colorado Nevada M & M Co., Akron Mines Co., and La Plata Mines Co. In the early 1940s he joined the Bureau of Economic Geology at the University of Texas, where he remained until his retirement. Brother Wheeler is survived by a son. (Mines Magazine)

HAROLD R. WOOD, Syracuse '33, died February 7, 1969 in Rochester, Minn. He was a technical associate at IBM Development Laboratory. Brother Wood is survived by his wife, two children, and five grandchildren.

DR. LINCOLN T. WORK, Columbia '21, died November 3, 1968. He was a consulting chemical engineer and former director of research and development for Metal & Thernit Corp., Rahway, N.J. After he received his Ph.D. at Columbia, he remained as a member of the chemical engineering faculty until 1940, when he joined Metal & Thernit Corp. Brother Work was the author of many scientific articles. His specialties were particle size, dust and smokes, catalytic agents, coatings, metal powders, cements, pigments and fillers, and fuels. He was also an authority on research management. Brother Work was a former president of the Association of Consulting Chemists and Chemical Engineers, the American Institute of Chemists, and the Chemists Club. He had held many offices in the American Chemical Society, including chairman of the Division of Industrial and Engineering Chemistry. He was also active in Columbia Engineering School activities.

Alumni Notes

MINNESOTA

A **ROBERT I. MINER**, '10, has an engineering drafting service in Jackson, Mich.

LYNN HOKENSON, '45, was co-designer of a triple wall corrugated container for helicopter power transmissions which won first prize in its class in the annual packaging and handling competition sponsored by the Society of Packing and Handling Engineers. Brother Hokenson's firm is the Lynn Hokenson Co., Springfield, Ohio.

BEN B. FLOOR, '39, is assistant general service manager for J. A. Riggs Tractor Co., Little Rock, Ark.

WAYNE H. TRAFFAS, '39, is manager of Gilbert & Associates, Inc., Beading, Pa. He lives in Sinking Spring, Pa.

CAPT. GERALD J. DITTBERNER, '64, graduated from the University of Wisconsin in January with an M.S. in meteorology and space science and engineering. The work was completed under the Air Force Institute of Technology program for

graduate study. Brother Dittberner will be on duty at Thule AB, Greenland for one year. His wife Mary Kay and daughter Colleen will remain in the Madison area.

ALAN W. KIECKER, '68, is a physicist at the Naval Weapons Center Corona Laboratory, Corona, Calif.

STEVE ROSE, '68, is an evaluation engineer for Honeywell Aerospace Division, Minneapolis. He lives in Owatonna, Minn.

LEO J. WALZ, '68, is a plant engineer for Control Data Corp., St. Paul.

MICHIGAN TECH

B **MAJOR WILLIAM J. WALIN**, '54, has received his second award of the U.S. Air Force Commendation Medal at Maxwell AFB, Ala., where he is attending the Air Command and Staff College. Brother Walin was decorated for meritorious service as a missile combat crew commander at Malstrom AFB, Mont.

JAMES G. WARE, JR., '54, is resident mining engineer for CF & I Steel Corp., Cedar City, Utah.

MAJOR VERNELLE T. SMITH, '59, was awarded the Army Commendation Medal for outstanding meritorious service as supply management officer and as research analyst, U.S. Army Combat Developments Command Combat Service Support Group, Fort Lee, Va. Brother Smith is now serving a second tour of duty in Vietnam, and has been awarded a second Bronze Star.

CAPT. SCOTT S. COLLINS, JR., '61, is serving with the U.S. Army in Vietnam.

DECK MACKINTOSH, '64, is chief engineer of mobile home and recreational vehicle heating equipment and appliances for the Duo-Therm Division of Motor Wheel Corp., La Grange, Ind.

RONALD E. STARR, '67, is employed by C. S. McKee & Co., Inc., Pittsburgh, Pa.

STEPHEN A. BERNER, '68, is a metallurgical engineer with Bell Helicopter Co., Fort Worth, Texas. His home is in Arlington, Texas.

COLORADO MINES

TRUSSELL F. BRYAN, '08, is retired. He lives in Cananea, Sonora, Mexico.

JOHN R. WEST, '10, is retired as appraiser with the Division of Highways of the State of California. He lives in Palo Alto.

R. J. MEEHAN, '19, is retired and is living in New York City.

OTTO L. SCHMIDT, '35, is assistant highway engineer for the Colorado Department of Highways in Denver.

JOHN E. HAYCH, '36, was promoted from quality assurance manager at the Davenport Works of Alcoa to chief product metallurgist for ingot, powder and cast products in the Pittsburgh, Pa. headquarters of Alcoa.

VERNON GRAS, '47, went to India in June 1968 for the Ralph Parsons Engineering Co. of Los Angeles. He is on an AID project known as "Operation Hardrock." Brother Gras' family is with him in New Delhi.

MAJOR JOHN I. COATS, '57, is serving in the Corps of Engineers, U.S. Army. He lives in Savannah, Ga.

ROBERT B. STECK, '57, is an account representative for Hayden Stone, Inc. in Asbury Park, N.J. He lives in Belmar, N.J.

L.T. ROBERT D. MORRIS, '67, is serving in the U.S. Army at Fitzsimons General Hospital, Denver, Colo.

JOHN W. WALKER, JR., '68, is division staff petroleum engineer for King Resources Co. He is living in Midland, Texas.

PAUL WALKER, '68, is a process engineer for Atlantic Richfield in Wilmington, Calif. His home is in Inglewood, Calif.

CASE WESTERN RESERVE



OTTO F. SCHRAMM, '12, is retired from the Sam W. Emerson Co. He lives in Fairview Park, Ohio.

WILLIAM P. VON REIDEN, '25, is retired from the General Electric Co. He lives in Fairfield, Conn.

JOHN T. VAUGHAN, '37, is vice president-operations of Alco Standard Corp. He was a founding partner of the V & V Management Co., which merged with the Alco Oil and Chemical Co. in 1965. The firm is composed of relatively small, progressive specialty companies.

WILLIAM B. SEAYER, '38, is manager of sales development for General Electric Co., Lynn, Mass. He lives in Marblehead, Mass.

JAMES W. FITZWILLIAM, '40, has been elected executive director of the Telephones Division of Bell Telephone Laboratories, Murray Hill, N.J. Brother Fitzwilliam joined Bell in 1953 and was named director of the Electron Device Laboratory in 1958. There he was responsible for the development and design of the microwave tubes used in the Telstar Satellite and in the ground station at Andover, Maine. In 1962 Brother Fitzwilliam was named director of the Array Radar Laboratory, and he has been director of the Sentinel Radar Laboratory since early this year.

NYAL W. DEEMS, '41, is owner and operator of the Statesville Travel Service, Statesville, N.C.

H. BRUCE BAY, '44, is manager of the Construction Department of Armco Steel Corp., Metal Products Division in Baltimore. His home is in Towson, Md.

COL. GERALD J. WINCHELL, '51, has been promoted to lieutenant colonel in the U.S. Air Force. He is chief of the computer operations branch at Offutt AFB, Nebr.

DR. JOSEPH C. OFFENLANDER, '53, is the new chairman of the Department of Civil Engineering, College of Technology, University of Vermont, Burlington, Vt. He had been teaching civil engineering courses at Purdue University.

EARL F. HAWKINS, '54, is senior power sales engineer for Wheeling Electric Co. He lives in Moundsville, W. Va.

Lt. RONN M. HAMEGAR, '67, is at Los Angeles Air Force Station as a project engineer in the Satellite Control Facility. He worked for Corning Glass Works before entering the Air Force. Brother Hamzah is living in Hawthorne, Calif.

L.T. STEVEN J. MERKER, '68, was commissioned a second lieutenant in the U.S. Air Force upon graduation from OTS at Lackland AFB, Texas. He was assigned to Keesler AFB, Miss., for training as a ground electronics officer.

ROBERT NEMHAUSER, '68, is a research engineer for E.G. & G., West Los Angeles. He lives in Santa Monica, Calif.

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WAYNE F. NEKALA, '68, is a photographic engineer for Eastman Kodak Co., Rochester, N.Y.

CALIFORNIA (BERKELEY)

E ERNEST E. BEHR, '10, was featured in the school paper of Yuba College, where he teaches geology in the Adult Education Department. Brother Behr is now 82, and has been teaching there for 12 years. He was initiated into Epsilon Chapter while a teaching fellow at U.C., where he was Past Grand Regent Louderback's assistant. Brother Behr then went to the Hawaiian Islands for two years. Following his return, he studied in Montana, then worked for the California Rice Growers Association and PG&E in San Francisco. In 1957 he began teaching his geology class. Photography and ceramics are among his hobbies, and he travels widely.

GRAHAM B. MOODY, '12, is a petroleum consultant in Berkeley, Calif.

ERIC K. GRANT, '14, is retired; he lives in Healdsburg, Calif.

NORMAN HARRY, '24, is retired; he lives in Santa Barbara, Calif.

A. J. SOLARI, '35, has retired after more than 32 years in exploration work for Standard Oil Co. of California. He has worked in or visited many of the oil producing areas of the world. During his career he has served as director and vice president of four of Standard's operating subsidiaries. Brother Solari is now living in Modesto, Calif.

PAUL L. EDMON, '51, has been named exploration manager, special projects, for the Minerals Exploration Co., a subsidiary of Union Oil Co. of California. The position is a new one, and Brother Edmon's headquarters will be Tucson, Ariz.

PAUL C. PERRY III, '52, is general manager of Fiasco Co. of Puerto Rico, Inc., a subsidiary of Shell International Petroleum Co. of London. Brother Perry is living in Santurce, Puerto Rico.

JOHN Q. SOBS, '58, is an associate engineering geologist for the Department of Water Resources, State of California. His home is in Apple Valley.

KANSAS

Z THOMAS M. HIPP, '26, is a project manager for Phillips Petroleum Co. in Bartlesville, Okla.

H. LEE NELSON, '44, is an instrument development engineer for American Optical Co., Richmond, Calif. His home is in Newark, Calif.

J. B. LADD, '46, has formed Ladd Petroleum Corp. in Denver, Colo. The new firm will operate in eight states and two Canadian provinces. Brother Ladd formerly was executive vice president of Consolidated Oil & Gas Inc.

ROBERT ROMANER, '67, is a process engineer for Skelly Oil Co. at the El Dorado, Kansas refinery.

CONRAD D. WAGENKNECHT, '67, is an engineer for General Electric's Aircraft Engine Group at Evidale, Ohio. He lives in West Chester, Ohio.

JOHN C. WEST, '68, is a student naval aviator at the Naval Air Station at Whiting Field. He is living in Milton, Fla.

CURTIS SLAGGELL, '69, is employed by the Kansas State Highway Dept. He lives in Wichita.

MIT

H GEORGE P. INGLEHEART, '17, is retired. He lives in Greensboro, Vt.

BENJAMIN F. LANE, '23, is retired; he lives in Orleans, Mass.

COLUMBIA

C DONALD D. MACLAREN, '45, is a new life member of the Thomas Egleston Associates of the Columbia Engineering School. He has been president of the Alumni Association.

NORMAN J. GLOVER, '50, is vice president of Viking Development Corp. His home is in Boston, Mass.

HERMAN BEEBER, '51, is a senior research associate for Esso Research and Engineering Company's New Investments Research Laboratory in Linden, N.J.

ROBERT I. PEARLMAN, '55, married the former Judy Levine on April 6, 1968.

ERNEST G. OLSON, '56, is resident engineer for Blauvelt Engineering Co., New York City. He lives in Staten Island, N.Y.

JOHN B. FORBER, '64, is supervising freeman for Pacific Telephone in Los Angeles. His home is in Torrance, Calif.

ALLEN STEIN, '67, is a development engineer for AVCO's Lycoming Division, Stratford, Conn. He lives in Bridgeport, Conn.

EMILIO BRUNA, '68, is an industrial engineer for Lederle Laboratories, Pearl River, N.Y. His home is in Hartsdale, N.Y.

JEFFREY M. FRANKLIN, '68, is a production engineering trainee for Uniroyal Chemical in Nausetuck, Conn. He lives in Woodbury, Conn. Brother Franklin is engaged to Miss Francine Heller and plans to be married in August 1969.

JEROME S. GERBER, '68, is a systems analyst-programmer for IBM in East Fishkill, N.Y. He is living in Beacon, N.Y.

STEPHEN GILBERT, '68, is a graduate student and teaching assistant at Columbia.

ENS. ARTHUR R. HOOKER, '68, is serving in the U.S. Navy at Athens, Ga.

STEVEN J. ROSS, '68, is a systems engineer for IBM in New York City.

ERIC A. SCHROV, '68, is a chemical engineer for Procter & Gamble in Cincinnati, Ohio.

MISSOURI AT ROLLA

IR. P. BAUMGARTNER, '28, is manager of the HP Test Lab for Westinghouse Electric Corp., Pittsburg, Pa.

JAMES J. MURPHY, '35, has been elected president of the Missouri School of Mines Alumni Association. He is president of the Murphy Company in St. Louis.

ROBERT L. RAY, '45, is a consulting metallurgical engineer in Oakland, Calif.

DONALD G. SCHMIDT, '48, is director of research for H. Krause and Co., Chicago. He lives in Hinsdale, Ill.

WILLIAM W. COLLINS, '50, is assistant vice president of the First National City Bank, New York City. His home is in Metuchen, N.J.

JOE E. GRAY, '54, is construction market development manager for Bell Helicopter Co., Fort Worth, Texas.

ROBERT R. POWERS, '62, is dow area engineer for Standard Oil Co., Kansas City, Mo.

WILLIAM R. HAGEN, '65, is account representative for IBM in Detroit, Mich. He and his wife have three children; they live in Trenton, Mich.

EDWARD L. SCHMIDT, '67, is currently serving in Vietnam.

ILLINOIS

KHARRY T. ROGERS, '16, is retired as chief engineer for construction and maintenance for American Oil Co. refinery, Texas City, Texas. He lives in Galveston.

J. H. NEEDLER, '17, is retired; he lives in Evanston, Ill.

CHARLES LUCKMAN, '30, received the George Washington Honor Medal and a cash prize from the Freedoms Foundation at Valley Forge. He was honored for his address, "Law and Order vs. Chaos," delivered in Los Angeles last June. Brother Luckman is chairman and chief executive officer of Charles Luckman Associates.

FREDERICK W. MAST, '33, is president of Jens Olsen & Sons Construction Co., Waterloo, Iowa.

JAMES A. WARREN, '33, is president of Cain, Nelson, Warren, Cook & Swain, P.C. in Tucson, Ariz.

UTAH

AHOWARD H. HAYNER, '20, is a rancher and raceway operator. He lives in Salt Lake City.

AUGUST L. ABEL, '34, is a senior engineer with Sumi, Low, Tom and Hara, Inc., Consulting Engineers, in Honolulu, Hawaii.

FRED J. DONKIN, '43, is a senior facilities engineer with Hercules Incorporated, Bacchus, Utah. His home is in Salt Lake City.

ROBERT G. WHITE, '66, is a project engineer for Information Technology, Inc., Sunnyvale, Calif.

Lt. ROBERT R. CLIMONS, '67, was promoted to first lieutenant in the U.S. Air Force in March. In December he moved from chief, Timing Section, to program branch chief for the 1st Geodetic Survey Squadron, F. E. Warren AFB, Wyo. In April he expected to go to Lowry AFB for intelligence training.

ALABAMA

MFRANK E. BUNCK, '41, is with Grumman Aircraft in Bethpage, N.Y. He lives in Huntington, N.Y.

JOHN E. DANIEL, '65, received his J.D. degree from the University of Alabama School of Law in 1968. He is now serving on active duty with the U.S. Public Health Service Commissioned Corps as legal adviser to the assistant commissioner for standards and compliance of the National Air Pollution Control Administration in Arlington, Va. Brother Daniel lives in Falls Church, Va.



The Alumni Service Award of The University of Missouri at Rolla was presented this year to Henry E. Zoller, MSM '23, center, and Ernest L. "Roy" Perry, MSM '40, right. Brother Zoller is a retired independent oil operator and president of the Derby Oil Company. He lives in San Antonio, Texas. Brother Perry is general manager of the Port of Tacoma, Tacoma, Washington. The awards were given in recognition of outstanding contributions to the school through service to the School and the Alumni Association.

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CARNEGIE TECH

N WILLIAM W. DARTNELL, '22, is retired. He lives in Fort Pierce, Fla.

VINCENT B. SMITH, '26, is retired and is living in Friendsville, Md.

J. F. BARABY FLOYD, '37, is on the principal staff of the Johns Hopkins University Applied Physics Laboratory, Silver Spring, Md. His home is in Ellicott City, Md.

BENJAMIN G. MARCIN, P.E., '43, is manager of plant engineering for the M. W. Kellogg Co., New York City. He lives in Brooklyn, N.Y.

IRWIN M. AISENBERG, '46, is a partner in the patent law firm of Littlepage, Quantance, Wray & Aisenberg, with offices in Washington, D.C. and Arlington, Va. Brother Aisenberg lives in Bethesda, Md. with his wife and four children.

JAMES O. DENNY III, '48, is director of research for J. S. McCormick Co., Pittsburgh, Pa.

WISCONSIN

H EDWARD H. HAUGEN, '24, is retired from North American Rockwell. He lives in Ann Arbor, Mich.

H LEONARD KITCHEN, '37, is now a project engineer for Joy Manufacturing Co. in Burlington, Mass. He is responsible for confectionery engineering in the Food Processing Division.

Lt. (j.g.) ROBERT C. SCHNEIDER, '65, was awarded the U.S. Navy Achievement Medal with Combat "V," for meritorious service while serving with U.S. Naval Mobile Construction Battalion 62 in DaNang RVN. He is now stationed at Grissom AFB in Peru, Ind. where he is the resident officer in charge of construction (ROICC).

EDWARD F. ELLINGSON, '68, is a development engineer for Moline Manufacturing Co., Racine, Wis. He lives in Salem, Wis.

ROBIN L. JARNOKE, '68, is a project engineer for Sundstrand Aviation, Rockford, Ill.

ALLEN L. PERKINS II, '68, is serving on the USS *Bassell* as a main propulsion assistant.

IOWA

O VERNER R. MUYR, '22, is retired as senior utilities engineer for California Public Utilities Commission. He lives in Walnut Creek, Calif.

EDWIN D. SIMMONS, '50, is chief process engineer for Beloit-Pansavant Corp., Janesville, Wis. He lives in Beloit, Wis.

LINDSAY L. LENDLART, '53, is a manufacturer's representative. His firm is Lendhart Sales Co., Northfield, Ill.

JOHN L. PFYFFER, '63, is an office engineer for the construction of the Wind Gap Pumping Plant for the State of California Department of Water Resources. He lives in Bakersfield, Calif.

GEORGE A. CHRISTIANSEN, '64, is a development engineer for E. I. du Pont in Clinton, Iowa.

WILLIAM T. COUSINS, '66, is now in the U.S. Army Artillery at Fort Sill, Okla. He was an industrial engineer with Eastman Kodak, Rochester, N.Y.

GEORGE J. CROMBIEK, '68, is a mechanical design engineer with Collins Radio Co., Cedar Rapids, Iowa. His home is in Solon, Iowa.

DOUGLAS DENNO, '68, is an engineer for the U.S. Forest Service, Grand Marais, Minn.

MICHAEL J. FULLER, '69, is an inspector for the Howard K. Green Co., Inc., Cedar Rapids, Iowa.

VIRGINIA

II MATTLAND A. WILSON, '23, is retired. He lives in Scottsdale, Ariz.

FRANCIS W. TAYLOR, '25, is president of Gulf Marine Supply Co., Pensacola, Fla.

LAWRENCE R. QUARLES, '29, dean of the School of Engineering and Applied Science, was elected chairman of the graduate studies division of the American Society for Engineering Education at its annual meeting in June. Brother Quarles will also serve two years as a member of the council of general divisions and committees of the society.

EDWIN B. DUNN, '39, is superintendent for Atlantic Richfield in Waynes, Pa.

JOHN H. SIERBOTOM, '40, is now division vice president, defense marketing for RCA Defense Electronic Products. Previously he was division vice president and general manager of the Missile and Surface Division.

JOSEPH D. GILLENLAIN, JR., '64, is a research scientist/engineer for the Research Laboratories of the Engineering Sciences at the University of Virginia.

HARRY H. ROBERTSHAW, '64, is a graduate student at the University of Virginia, working toward his Ph.D. in mechanical engineering.

NORTH CAROLINA STATE

P WARREN S. MANN, '21, is retired as vice president—sales for the Metal Products Division of Armco Steel Corp., Middletown, Ohio.

ALBERT C. BANGE, '24, is retired as a sales engineer for Westinghouse Electric Corp. He lives in Greensboro, N.C.

GEORGE P. GREENE, '44, is owner and manager of Greene Construction Co. and Wataugh Ready Mix, Boone, N.C.

ROBERT E. JOBE, '57, has been promoted to major in the U.S. Air Force. He is chief of safety at Reese AFB, Texas. Brother Jobe lives in Lubbock, Texas.

LT. HUBERT H. DAVIS, JR., '64, is a research scientist for the U.S. Air Force at Wright-Patterson AFB, Ohio. He lives in Dayton.

CAPT. WILSON H. HEPLER, '64, has been decorated with the Bronze Star Medal at Moody AFB, Ga. for meritorious service as a pilot while assigned at Nha Trang AB, Vietnam. Brother Hepler has flown 250 combat missions. He is now with the Air Training Command.

LT. RICHARD C. CHAMBERLAIN, '68, was commissioned a second lieutenant in the U.S. Air Force upon graduation from OTS at Lackland AFB, Texas. He was assigned to Offutt AFB, Nebr. for duty.

C. WILLIAM SAALFRANK, '68, is an assistant sales engineer with Westinghouse Electric Corp., Denver, Colo.

OHIO STATE

Σ CHARLES P. SMITH, '28, is with the J. E. Greiner Company; he lives in Seventh Park, Md. Previously he was a bridge engineer for the Alaska Department of Highways and served as president of the Alaska Society of Engineers.

RICHARD D. SNOW, '37, is a project planner with the Austin Co., Cleveland. His home is in Willowick, Ohio.

WILLIAM H. CAMERON, '43, is with Spartan Products in Clawson, Mich.

JAMES W. BRADLEY, '62, is a senior engineer with Westinghouse Atomic, Cheswick, Pa. He lives in Monroeville, Pa.

JAMES R. HANNAHS, '66, presented a paper, "Consumable Guide Electroslag Welding and its Applications in Structural and Bridge Work," at the 48th annual meeting of the Highway Research Board in Washington, D.C. on January 17, 1969. Brother Hannahs is a member of the Welding Handbook Committee which is revising the handbook for its sixth edition. He lives in Troy, Ohio.

SYRACUSE

T KENNETH F. CRASER, '28, is a project engineer with Truog-Nichols, Inc., Kansas City, Mo. He lives in Shawnee Mission, Kans.

HARRY C. WILLIAMS, '31, is employed in the P&PD Directorate, Cost Engineering Division at Picatinny Arsenal. Before coming to the Arsenal in 1967, he was employed in the Machine Division of Easy Washing Machine Co., Syracuse, N.Y. Brother Williams is a widower and in July he plans to marry a Syracuse classmate at Hendricks Chapel.

HAROLD E. CRAMPTON, '35, is director of purchasing and assistant secretary of Stapling Machines Co., Rockaway, N.J. He lives in Dover, N.J.

KENNETH R. BROWN, '41, is a partner in Barton, Brown, Clyde & Loguidice, Consulting Engineers, North Syracuse, N.Y.

HAROLD F. GREENER, '44, is vice president for engineering and sales of Sealol Inc., a subsidiary of EG&G. He lives in Warwick, R.I.

LAURENCE A. ALEXANDER, '48, is president of the urban planning firm of Alexander & Moskowitz, Inc. in New York City. The firm recently opened an office in Trenton.

WALTER K. NEUBAUER, '49, is a partner in the firm of O'Brien & Gesa, Consulting Engineers, Syracuse, N.Y. and Charlotte, N.C. He lives in Manlius, N.Y.

LT. COL. JOHN F. ETHERINGTON, '51, is base vice commander with the Tactical Air Command at Cannon AFB, N.M.

WILLIAM B. HYDE, '60, is engineer in charge of Sylvania's Amherst Laboratory, Buffalo, N.Y. He lives in Williamsville, N.Y.

LT. ALLAN H. KOFF, '67, is serving in the Electrical Systems Division for the U.S. Air Force at L. G. Hanscom Field, Bedford, Mass.

ARKANSAS

Y KENT E. SHREVE, '50, is now assistant manager of mechanical sales for AFCCO Steel Co. in Little Rock, Ark.

JAMES L. WALKER, JR., '67, is sales and service manager for Southwestern Bell Telephone Co., Houston, Texas.

WILLIAM F. MURPHY, '69, is a research and development engineer for the Dow Chemical Co., Freeport, Texas.

RICHARD B. WRIGHT, '69, is a production supervisor for Monsanto Co., Springfield, Mass. He lives in West Springfield.

PURDUE

Φ DR. FRANK W. SCOTT, '25, is retired. He lives in Minneapolis, Minn.

KENNETH W. DIX, '31, retired January 1 after 36 years with Standard Oil Co. (Ind.). He is living in the Ozarks at Kimberling City, Mo.

JAMES I. MARSONE, '61, is the father of a daughter, Rosellen Jesu, born September 14, 1968. The family lives in Lake Bluff, Ill.

MICHAEL W. STEWART, '67, is a project engineer for Owens-Illinois Inc., Toledo, Ohio.

HOWARD S. HUNTINGTON, '68, is an associate engineer with Electronic Communications, Inc., St. Petersburg, Fla.

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JOHN W. LURKER II, '68, is a development engineer for Amoco Chemicals Corp., Seymour Ind.

MICHAEL D. MYNDEE, '68, is a civil engineer with Greeley and Hansen, Chicago. His home is in La Grange, Ill.

STEPHEN P. STREIB, '68, is a process engineer with Chevron Research Co., Richmond, Calif. He lives in Oakland, Calif.

JAMES M. WALTER, '68, is a graduate student in industrial engineering at Purdue.

KENT A. WILLIAMS, '68, is a graduate student in chemical engineering at Purdue.

ARIZONA

X WILLIAM T. WISHART, S.E., '29, is senior regional engineer for the American Institute of Steel Construction, Inc., Chicago, Ill.

WELDON T. BRINTON, '31, is district engineer for Southern Union Gas Co. in Flagstaff, Ariz.

COL. BARNEY SREHANE, '31, is retired and is living in Sai Clemente, Calif.

FRANK M. CLINTON, '34, is assistant general manager of the Metropolitan Water District of Southern California in Los Angeles. He lives in Santa Monica.

LT. GENERAL JOHN B. McPHERSON, '40, is assistant to the chairman, Joint Chiefs of Staff, Washington, D.C.

RICHARD J. BAKER, '62, is an industrial engineer for E. L. du Pont de Nemours & Co., Topeka, Kans. He lives in Lawrence, Kans., and plans to attend law school in September 1969.

LT. DUNCAN M. McINTOSH, '65, is assigned to the Aerospace Research Laboratory, Wright-Patterson AFB, Ohio. Previously he was at the Satellite Control Facility in Sunnyvale, Calif.

DELBERT B. MOBERGSON, '66, is manager of industrial engineering in the Fabrication Dept. of Collins Radio Co., Newport Beach, Calif. He lives in Costa Mesa, Calif.

WILLIAM A. GOREN, '67, is a sales engineer working with the power systems (electric utility) group of Westinghouse Electric Corp. in Salt Lake City, Utah.

HENRY J. BOULTON, '69, is a sales engineer for the Trane Co., LaCrosse, Wis.

MONTANA TECH

T CLARENCE A. WENDEL, '34, is advisor to the chief of the Brazilian National Department for the Production of Minerals for the American Mission in Rio de Janeiro. He previously was American regional minerals attaché in Ankara, Turkey.

JAMES T. CONWAY, '64, is a metallurgical engineer with the U.S. Atomic Energy Commission in Richland, Wash.

HARVEY P. KNUDSEN, JR., '68, is a geological engineer with the U.S. Atomic Energy Commission at Grand Junction, Colo.

SOUTH DAKOTA TECH

Ω

WILLIAM A. GRIFFITH, '47, is director of research for Hecla Mining Co., Wallace, Idaho. He lives in Osburn, Idaho.

GLENN D. FRENCH, '68, is a junior engineer in training at the Ternstedt Division of G.M., Warren, Mich. He is living in Roseville, Mich.

LYNN D. HAVLIK, '68, is a process engineer for Celanese Chemical Co., Bishop, Texas. He lives in Kingsville, Texas.

RICHARD J. STORM, '68, is a junior civil engineer with the California Department of Highways. He lives in San Diego, Calif.

GEORGE WASHINGTON

Γ B

H. VELPEAU "VAL" DARLING, '33, has retired as chairman of the board of directors of Commonwealth Transportation Consultants, Inc., and has bought a 450 acre farm in Central Virginia which will be operated under Chellowe Farms, Inc., of which he is president. Brother Darling lives near Dilwyn, Va. During his career he served 31 years with the Corps of Engineers, U.S. Army and 10 years with consultant firms and the United Nations.

A. H. HELVERTINE, '33, is patent counsel for the U.S. Navy in Washington, D.C.

CAPT. JACK C. DAVIS, '36, is director, Navy Patents, Office of Naval Research, U.S. Navy Department, Washington, D.C. He lives in McLean, Va.

PAUL L. MOATE, '36, is a project engineer for the U.S. Naval Ordnance Laboratory, Silver Spring, Md.

JOHN H. REXSE, JR., '38, is chief, Power Division, Office of Engineering, Agency for International Development, U.S. Department of State, Washington, D.C. He is immediate past chairman of the Washington Section of the IEEE Substations Technical Committee Power Group and is currently chairman of the Power System Engineering Technical Committee, Power Group of IEEE. For 20 years Brother Rexse has been district lay leader for the Northern Virginia United Methodist Church.

ARTHUR E. KOOSK, '37, is western branch manager of the Housing Construction Division, Naval Facilities Engineering Command, Washington, D.C. He lives in Arlington, Va.

ARTHUR T. NEILSEN, '62, is director of planning and management services for Syska & Hennessey, Inc., New York City.

LOUISVILLE

Δ B

LESTER E. SUTHERLAND, '68, is a field engineer for Dow Industrial Service in Flaqueminie, La. He lives in Baton Rouge, La.

WAYNE STATE

E B

CHARLES D. GILLECE, '52, is corporate engineering section leader for Corn Products Co., Moffett Technical Center, Argo, Ill. He lives in Western Springs, Ill.

PAUL DABISH, '68, is serving in the U.S. Army.

DAVID FAWCETT, '68, is a research engineer for Ford Motor Co., Southfield, Mich.

UTAH STATE

Z B

GARY HATCH, '56, is now deputy engineering coordinator for the Utah State Department of Highways in Salt Lake City.

BARTON H. KUNZ, '66, is an associate engineer for IBM in San Jose, Calif.

HOUSTON

H B

JAMES R. SIMMONS, '67, is tactical director, AADCP, with the U.S. Army 24th Artillery Group, Coventry, R.I.

BERND H. STRASSNER, '68, is an associate engineer for Lockheed Electronic Co., Houston, Texas.

WASHINGTON (SEATTLE)

Θ B

JOHN W. KLEINGANS, '67, is a mechanical engineer with Sheli Oil Co., Bakersfield, Calif.

CARL SCHAEFFER, '67, is a mechanical engineer for Star Iron & Steel Co., Tacoma, Wash. His home is in Kent, Wash.

CRAIG D. PUDSMANN, '68, is a manufacturing specialist for General Electric in Arkansas City, Kans.

DETROIT

I B

J. H. SWELGIN, '65, was recently promoted to supervisor of master scheduling/required services for the document handling business in General Electric. He lives in Phoenix, Ariz.

THOMAS C. WEINER, '65, is assistant civil engineer for the New York State Department of Transportation. His home is in Cheektowaga, N.Y.

MISSISSIPPI STATE

K B

DR. FRANK M. INGELS, Hon. '60, is assistant professor of electrical engineering at Mississippi State.

JAMES A. COOPER, '68, is a technical staff member of Sandia Corp., Albuquerque, N.M. Currently Sandia is sending him to school at Stanford University in Palo Alto, Calif.

TENNESSEE TECH

Λ B

DR. GEORGE R. BUCHANAN, '26, is associate professor of engineering science at Tennessee Tech.

JAMES E. FERGUSON, '66, is an instructor in electrical engineering at Tennessee Tech.

WILLIAM C. GOWER, '66, is an engineer for Western Electric Co., Winston-Salem, N.C.

GLENN M. MACLEIN, '66, is a graduate student at Tennessee Tech.

STEPHEN J. BARTH, '67, is a design engineer for General Electric in Cincinnati, Ohio.

JOHN W. BUTLER, '67, is a process engineer for E. I. du Pont de Nemours Co. Inc., Chattanooga, Tenn.

WILLIAM M. CLOUD, JR., '67, is in law school at the University of Tennessee, Knoxville.

CARL H. FRITTS, '67, is a physicist for Tennessee Eastman Co., Kingsport, Tenn.

DANNY H. POWELL, '67, is an engineer for Union Carbide-Nuclear at Oak Ridge, Tenn.

THOMAS S. TAPPY, JR., '67, is a graduate student at Vanderbilt University, Nashville, Tenn.

WILEY W. THOMPSON, JR., '68, is an engineering associate with Union Carbide Corp., Oak Ridge, Tenn.



Chapter News

How well does your Chapter do in alumni relations? How well do you do in maintaining contact with your Chapter as an alumnus? In this issue, Chapters were asked to write about alumni relations. A number of interesting programs are described here. One of the strongest Chapter-alumnus ties is an active House Corporation. One of the commonest forms of contact is the Chapter newsletter. A few Chapters have an effective plan whereby alumni provide nominal financial support. Nearby alumni sometimes take part in Chapter activities. Read on—you may find your Chapter rates its alumni relations excellent—if so, we hope you agree with their rating. If not, perhaps a letter from a concerned alumnus will spark some needed activity. Listen. Tune in. Some have a message of value.—WEF

BETA CHAPTER



The main tool of communication between alumni and members at Beta is the annual spring publication of *The Rhomboids*. It usually consists of an eight or ten page report of the entire year's activities with photos of the highlights. Seven hundred copies are distributed

to our alumni, all chapters of Theta Tau, and every national officer.

The publications Committee at the 27th Biennial Convention in Alabama felt that one newsletter per year was not enough to keep up an effective and regular correspondence between the concerned parties. We have adjusted our policies within the Chapter to conform to this suggestion by arranging to send one newsletter at the end of each of the three terms. John Richards, the computer wizard at the house, spent two months of hard work organizing a computer program which includes the 1,624 members of Beta Chapter. Having a computer burp out gummed address labels is a great deal more convenient than handwriting them, and it will insure the success of our newsletter program. Bulk rate postage is another facet of mailing we have finally adopted to make the project more economically feasible.

We are looking forward to forming an Upper Peninsula Alumni Association within the near future as a result of this newly organized system.

LARRY A. BROWN
Corresponding Secretary

DELTA CHAPTER



Delta Chapter, with the largest number of alumni of any of the chapters, has never kept in very close touch with them. It seems as if they leave school only to disappear. Our Chapter has taken upon itself the job of rectifying this situation as we firmly believe that

a strong alumni program, one that would keep the alumni interested in our Chapter and what it was doing, would be of great benefit to us. Toward this end, we intend to begin publishing an alumni newsletter at least twice a year with news of current chapter events and notes from the alumni. While we will necessarily begin with news of local alumni, we hope to expand this section to include news from brothers all across the country. At the present we are hampered by a membership file which has not been kept up to date; however, we are working very hard to get it in shape, in hopes of getting out the first of these newsletters late this spring. Our Chapter has always worked closely with Theta Tau members on the faculty in the areas of curriculum reform and school service; local alumni are invited to our initiations and Founders' Day banquets and are welcome anytime. We hope to increase our contact with local alumni in the future, especially in the area of professional development. We recognize that a strong alumni program is one of the greatest strengths of a chapter and we are endeavoring to build such a program.

JAMES W. JOY
Corresponding Secretary

ZETA CHAPTER



Zeta Chapter of Theta Tau maintains an aggressive, effective alumni relations program. We feel that the greatest asset that a strong fraternity has is communication between its ac-

tive members and its alumni. Zeta Chapter facilitates this communication in many ways—among the most important are: our use of the Kansas City area alumni and other chapter alumni to assist in special chapter functions and professional development programs; our contact with the Zeta of Theta Tau House Corporation Board; our Zeta Cog program for alumni financial support; our chapter newsletters; and special chapter celebrations (e.g. Founders' Day) to which alumni are invited.

Our contact with chapter alumni and Kansas City alumni in particular was exemplified recently

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in a series of rush functions sponsored by the Chapter to which all eligible members of the Engineering School were personally invited. These functions began with a rush program at the chapter house on a Thursday night which was attended by Tom Donville, president of the Kansas City Alumni Association. The event featured a speech by a professor in the Aerospace Engineering Department. The next night a beer party for the rushees was held at an active brother's apartment. The following day contact with our alumni was resumed as the Chapter invited alumni and rushees over for an informal lunch at the house. These functions served to unite the alumni and the active chapter and also served effectively in rush.

The Zeta of Theta Tau House Corporation, a non-profit corporation composed of Zeta chapter alumni, has been a unifying factor between the chapter and the alumni over the years, particularly the last two. The Corporation through its Board of Directors provided the primary financial and administrative support which made the new chapter house possible.

We also endeavor to maintain contact with alumni through chapter newsletters and our Zeta Cog alumni program. Zeta Cogs, since its inception, has been the chapter's mainstay for continued alumni financial support. Money obtained through Zeta Cogs is normally used for special house maintenance, repairs, and new furnishings. A ten dollar contribution makes an alumnus a member of Zeta Cogs for one year, and 24 years of contribution (one year for every tooth in the gear wheel of the badge) makes the alumnus a lifetime member of Zeta Cogs.

Zeta Chapter, besides upholding its alumni relations, is active this year at K.U. in many respects—among them: putting up posters in the Engineering Building for National Engineering Week; building its annual archway and a special exhibit for the Engineering Exposition; and instituting a sisters organization, The Little Sisters of Theta Tau. The Little Sisters of Theta Tau is a special organization of the Chapter whose members perform functions such as serving meals periodically, serving coffee and donuts after games and other house functions, and other activities which benefit the Chapter. The pledge ship of the Little Sisters is somewhat similar to that of pledges in the Fraternity in that they learn some of the more important facts about the Fraternity, but is noticeably different in some of its requirements. We feel that the Little Sisters provide a very useful addition to Zeta Chapter of Theta Tau.

Zeta Chapter has distinguished itself individually as well as collectively at Kansas University this year. Two members have qualified for and were initiated into Sigma Tau, honorary engineering fraternity. Also, a Zeta pledge was accepted into Tau Beta Pi, honorary engineering society. Four of the five major offices in the Engineering Council are being held by Theta Taus and the fifth is being held by a girl engineering student who is the daughter of a Zeta alum and is pinned to the vice-president of the council who is, of course, a Theta Tau.

Formal Dedication of our new house is scheduled for the third weekend in April. We at Zeta Chapter

are proud of our new house and look upon it as a major victory for the Fraternity-at-large. We are hoping everyone in the Fraternity will have the opportunity to visit us in our new house, and take as much pride in its completion as we have.

DAVID C. DWYER
Corresponding Secretary

MU CHAPTER



Here at Mu Chapter, we maintain contact with many of our alumni through the Founders' Day Banquet in October and by inviting them to attend our informal get-togethers such as back-yard barbecues and our more formal parties such as

Homecoming. Also, alumni are encouraged to visit the Chapter as often as possible.

Just a few weeks ago, Mu Chapter was honored with the presence of last year's Regent, Edward B. Dockery, Jr. It was good to see him again and all the new initiates were impressed with his visit. After Chapter meeting, he passed around cigars in honor of his recently born son.

Both Professors William K. Rey and Warren G. Keith of the University of Alabama are alumni of Mu Chapter and act as advisers to the Fraternity. We owe our new house this year to the hard work they did to obtain it.

As for alumni participation in a more professional aspect, this past February saw Theta Tau co-sponsor an audience-participation debate in which all alumni, faculty, and students of the University were invited. The topic, "The Responsibility of the Engineer in War and Weapons" was very interesting. The debate saw an unusually large turnout and quite a response from the audience.

Alumni are encouraged to attend all professional development meetings sponsored by Mu Chapter. This semester we plan to have speakers on subjects ranging from "The Draft Status of an Engineering Graduate" to "Stock Investment on Wall Street."

We are also involved in other facets of campus life. Homecoming saw one of the best parties ever for Mu Chapter at the Capstone. We are also quite active in campus politics. With elections coming up this year, we have members running for every office on the slate in the School of Engineering. We are also proud of our football and softball teams.

DONALD B. LEONARD
Corresponding Secretary

OMICRON CHAPTER



Good alumni relations can spell the difference between excellence and mediocrity in fraternal affairs. While Omicron hasn't as of yet achieved the former, it is currently working hard to avoid the latter.

Omicron is currently in the process of reorganizing much of its alumni information on to computer cards. The cards will be incorporated

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into a program which, when sent to the University's Data Processing Department, will print the current address of each alumnus on a gummed label for distribution of newsletters and other chapter information. This project (soon to be completed) will greatly increase the efficiency of our alumni relations.

While Iowa boasts no nearby alumni associations, Omicron invites nearby alumni to all monthly dinner meetings.

Although at this time we have no program which encourages support from alumni, many Omicron brothers have pledged funds. Work will soon begin on establishment of a program to seek such financial help. We hope that the near future will see an improvement in the area of alumni support at our chapter.

We are currently on the verge of another MECCA Week (Engineers' Week) at the University. This is held each year in conjunction with Saint Patrick's Day. It will once again become the Iowa engineer's duty to tell the campus (i.e. law students) that St. Pat was truly an engineer. This is done with endless toasts in his honor at local refreshment counters. Needless to say, as in all other engineering activities at Iowa, Theta Tau takes an active part. MECCA Week starts with an engineering college "Open House" which gives area residents, parents, and other students (high school and college) a chance to tour the engineering facilities at the University and to see colorful and informative displays in each department.

A stone hunt is a big part of MECCA Week. The engineering graduate students hide the "MECCA Stone" and give the undergrads clues that lead to other clues and eventually the stone. The hunt starts on a Sunday night and the stone doesn't usually turn up until Wednesday. On Thursday night of MECCA Week, there is a smoker at which each branch of engineering presents a skit and King and Queen candidates are voted on for the MECCA Ball, which tops off the week's activities that Saturday night. As evidence of the strong role Theta Tau plays at the University, all of the MECCA Week committees host Omicron brothers as their chairmen.

ROBERT M. WEST
Corresponding Secretary

PI CHAPTER



PI Chapter is a large, energetic group, and to maintain such a level an enthusiastic pledge class every year is mandatory. The traditional keys are tapped, and the future engineers are formally introduced to Theta Tau before relaxing and enjoying the party. I'm certain that the new pledges will not only rank high academically, but will have poise and self-confidence: the leaders of the school.

But rush is just a small part of our activities for the spring semester. We've just completed election of chapter officers. Soon we will be concentrating on the biannual campaign for Engineering School election. Each fall and spring certain officers in the University's student government are open for

election. This spring the offices are President of Engineering School, Vice-President, Secretary, Student Council Representative, Judicial Committee Member, and Honor Committee Member. Since most student leaders in engineering are members of the engineering fraternities, we feel obligated to nominate and support candidates.

We have also initiated special evaluation and study projects. Last year PI Chapter began a course evaluation in the form of questionnaires on each course in engineering, answered by all students in the course. The results were so successful and comprehensive that the Engineering Council decided to finance the program, and with the Dean's permission class time is now taken annually to fill out the questionnaires.

This spring we are beginning a study of the engineer attrition rate, which is especially high in the first year. In addition to our study we plan to travel to Virginia high schools to work with prospective engineers and to help them know exactly what to expect from engineering.

In the interest of improving the Engineering Library at Virginia, we are organizing a complete file of past notes, assignments, and exams in the engineering courses to be available to all engineers.

In the area of alumni relations we are improving. In the last several years dust has been allowed to settle on the alumni files. The student members are now personally contacting the alumni to attend all social functions as well as supporting our projects. Due to the dormancy it is to be expected that the alumni will need a little prodding before we can encourage active participation and interest, again. The University's faculty members who are Theta Tau alumni are naturally enthusiastic about our work and help whenever possible.

PI Chapter is currently undergoing some revolutionary changes in the type of role we are playing in the field of engineering and the engineering community. We are looking at projects which not only benefit the Theta Tau brotherhood, but will promote engineering in the University and in the state.

DAN WALKER
Corresponding Secretary

RHO CHAPTER



Much to our regret, Rho Chapter's relationship with our alumni has not been as close as we would desire. This statement pertains mainly to the alumni who are not still associated with the university. Those who are on campus take an active part in many of our professional development banquets.

This semester Rho Chapter initiated a campaign which we feel will improve our relationship with our alumni. Through our chapter newsletter we hope to contact as many of our alumni as possible and remain their support, both morally and financially. Much emphasis is being put on keeping in touch with the Fraternity alumni once they leave the university, especially for the brothers leaving this spring.

We at Rho Chapter feel we have had a very

successful year. So far this year the big event has been a weekend excursion to the mountains (with dates). Although, we ran into a little snow, no one's spirits were dampened. The trip provided a pleasant break from the studies and proved to be most enjoyable. A similar trip to the beach is planned for late April.

Another event which was most satisfying was our smoker and coffee hour. We worked very hard this semester in contacting prospective pledges. Our efforts were rewarded with a pledge class which numbers fifteen.

As Engineers' Week and Phi Chapter's Anniversary Day were relatively close together, we celebrated both with a banquet and had as a speaker Dr. Paul D. Cribbins, Civil Engineering, who spoke to us on the problems associated with rebuilding urban America.

W. TERRY KIGER
Corresponding Secretary

SIGMA CHAPTER



Sigma's most recent contact with alumni was a swim party at the apartment complex of alumni Pausly and Fockler. The heated pool, stereo, pledge skit, and warm fireplace helped make the party a success.

Most of the older alumni in the Columbus area do not have the close informal relations with the Fraternity that the more recent alumni have, but the Central Alumni Association does exist and has in the past been very valuable to the Chapter. With the open date caused by the discontinuation of the annual Triangle-Theta Tau picnic, the Chapter would like to initiate an alumni picnic in the spring, perhaps on the last weekend in May. Our spring formal is on May 24 this year, and we hope to have a good representation from the alumni.

The winter quarter at Sigma Chapter began with the primary emphasis on pledging and rushing. At the beginning of the quarter, we held two rush parties that were Monte Carlo style. Of the eighty rushees that attended, about fifty were invited to one of two smokers. The results gave us six pledges who form a high-spirited and enthusiastic pledge class. The rush program also gave us contacts with a good number of freshman engineering students, and prospects are good for another fair-sized pledge class this spring. The success of this year's rush program is giving the Chapter a standard procedure for future rush programs. The Monte Carlo parties allow us to get acquainted with a large number of rushees and give the rushees a good impression of the Fraternity because they enjoy themselves. The smokers help us to get to know the rushees and at the same time the rushees get to know us and learn a good deal about pledgship, so that they have a clear picture of Theta Tau and pledgship.

JOHN A. WEINER
Corresponding Secretary

TAU CHAPTER



At Syracuse University, the alumni of Tau Chapter share an active part in our Fraternity. They provide us with helpful guidance and counseling in the operation of our Chapter. Presently, some of the alumni are serving an important role in the formation of a housing corporation. Without their help and knowledge, obtaining a house would be nearly impossible because of all the financial and legal problems. Only with their assistance are we able to deal with the university effectively. Indeed, we need their support in drawing up a corporation which will enable us to be recognized legally as a group, instead of separate individuals. It was mainly because we didn't have a corporation formed last semester that we were forced out of our previous house. In order to cover some of the legal expenses, our Fraternity has set up a housing fund to which alumni may donate as much as they wish.

Besides working on the housing corporation, the alumni take part in various other activities. They sit in on our meetings and provide constructive comments and ideas. Other alumni like to come to our parties and enjoy some of the social aspects of fraternity life. One of the more popular functions is the Founders' Day Banquet. The event provides an ideal opportunity for both alumni and brothers to socialize and relax. During the evening, the alumni discuss developments in their related fields of work and students get a chance to update alumni on Fraternity affairs. The evening is an enjoyable one for both alumni and students and also serves as an opportunity to renew old acquaintances and form new ones.

To maintain correspondence with our alumni, we send out newsletters to them every semester. Also, we provide them with a schedule of Fraternity events for the upcoming month. Within the alumni group of our area is an organization called Tau Cogs. This association of alumni strives to maintain close contact among fellow alumni. Also, Tau Cogs helps our Fraternity financially by making contributions to our housing fund. Being in Tau Cogs enables members to participate more actively in Theta Tau.

One of the more memorable events we had during the school year was the professional development activity in the middle of the first semester. The event was part of a project organized by the fall pledge class. It consisted of films and commentaries about the latest engineering developments in the space flight re-entry. It provided the brothers with an insight into some of the problems of approach angle and entrance to the atmosphere. It was an enjoyable and informative evening for all and attendance was perfect.

ICOR STUPINSKO
Corresponding Secretary

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PHI CHAPTER



Contact with Phi's alumni is carried on in several ways. Perhaps the strongest asset in maintaining contact is through our Alumni Association. The Association holds an annual meeting in the spring during Purdue's Gala Week and an informal meeting on Homecoming Weekend. One of

the major services the Alumni Association performs is to remind our alumni of their \$10 annual dues commitment. This helps the student chapter in that we do not send out these notices. The Alumni Association now owns the chapter house and must approve all purchases of more than \$200.

The Chapter has an Alumni Relations Committee which passes on to our alumni any important news items concerning the house which arise between newsletters.

The Link, our house newsletter, is sent each semester to all the alumni we have addresses for as well as all the Theta Tau chapters. The Link for the spring semester of this year is currently being worked on and should be mailed by April 25.

Some of our alumni living fairly close to Purdue drop in from time to time and thereby get a little more information first hand. I sincerely hope these brothers pass this information on to other alumni.

The strongest link with our alumni is, however, our alumni. We are lucky to have interested and concerned men in our Alumni Association.

PAUL R. JACKSON
Corresponding Secretary

CHI CHAPTER



Chi Chapter has for the last few years been blessed with active, interested alumni. These brothers have given leadership, guidance, and aided in the developing of leadership qualities in our student members.

A current problem that hopefully has been rectified first occurred at last year's Founders' Day picnic when the alumni response was anything but what was expected. We consider ourselves very fortunate to have over seventy-five alumni in the Tucson area as well as the headquarters of the Southwest Regional Alumni Association, as it provides a broad potential base which the brothers can draw on.

One of the new and expanded programs has been in our professional development program in which there will be a guest speaker from each of the various areas of the engineering community at each meeting. In this way we not only broaden the knowledge of our brothers, but also are able to meet more of our alumni.

Each year, two social gatherings are held with the hope that the students and the alumni will meet each other and have an opportunity to exchange ideas. The spring function is a picnic given by our Chapter Advisor, Phil Newlin. Each

year, Brother Newlin goes hunting during javelina seasons and returns with one or two wild pigs to cook in his open pit barbecue. Javelina is one of the best wild barbecue meats when prepared by Brother Newlin.

There are several other projects underway to increase the role that alumni play in our Chapter's affairs. Several of the alumni from out of state have stopped in our house at 1614 E. Speedway to visit with the brothers and we are always glad to show the alumni around the house and inform them of the latest Chapter news.

RICHARD A. JOHANNSEN
Corresponding Secretary

OMEGA CHAPTER



This year, Omega Chapter has initiated a new program for keeping in contact with our alumni. When one of our seniors goes on an interview trip we look in our file to find out which alumni live in and around the city where our man is interviewing. He will try to look up or call as many of these alumni as possible during his free time on the trip.

Through these contacts we will be able to give the alumni a better picture of what is happening back at the Chapter. Also we hope that these contacts will give the alumni a feeling of still belonging in the Fraternity so they will not feel that they are a neglected group.

Another idea we are going to use this year is that of an alumni section in the chapter newsletter. In this section we will pass along news the alumni have written to us, and the names of alumni that they want to contact.

Right at the moment the only direct contact that we have with our alumni is through our alumni House Association. This group owns our chapter house and governs the rent the active members have to pay to live in the house. This group is also helping and backing us in our drive for a new house.

As for chapter news we have done quite a bit this year for Engineers' Week. We helped set up the activities for the week, and during the week we sent out a team of speakers to the area junior high schools. We also helped bring in the featured speaker for Engineers' Week.

This year has been a good one so far for us at Omega Chapter. We have won two trophies in intramural basketball, and we placed second in football. We hope to do well in volleyball and softball.

Also it has become apparent that we will win the scholarship award for fraternities on campus again. This will make ten out of eleven times that we have won this award.

This spring we are looking forward to our spring formal. This event, besides our Founders' Day banquet, is the biggest event that we have during the year. For the formal many alumni will show up and mingle with the actives. This creates quite a better understanding between the alumni and the actives.

TERRENCE KATZ
Corresponding Secretary

GAMMA BETA CHAPTER



One could hardly call the alumni of Gamma Beta Chapter the forgotten group. They participate in nearly all functions throughout the year and contribute a great deal to the development of the Fraternity. Being located in the heart of Washington, D.C. is one distinct advantage in that many of the older brothers live and work nearby.

The alumni frequently participate in the activities of the Engineering School as well as those of Theta Tau. Two of Theta Tau's most popular active-alumni events have been the Founders' Day celebration and the Shrimp Feast held in the fall, but there are many similar gatherings throughout the year.

In the fall, the alumni (being of rare talent and agility) form their own football squad to participate in the University intramural program. Though unable to match the undergraduate record this year, they all enjoyed themselves. During the rest of the year the actives and alumni combine their talents for other intramural sports and the results are usually favorable.

Alumni relations with the Chapter have always been important in helping the Chapter maintain its high standard of excellence.

ROBERT S. GRANT
Corresponding Secretary

DELTA BETA CHAPTER



The Delta Beta Chapter Alumni Club was revitalized during 1960 when the chapter was faced with housing problems. Shortly after its formation, a housing corporation was formed, headed by the alumni club officers, George Ellerkamp, Robert Delahanty, and Charles Buckman.

The club holds regularly scheduled quarterly meetings at the chapter house. The members have assisted with professional development programs, have spoken during rush functions, and have staged a magic show during a house party.

The Chapter is fortunate because over 100 alumni live in the metropolitan Louisville area. Those others who live out of town—mainly the younger graduates—we are continually tracking down. All alumni are sent a copy of the chapter newsletter, *The Pinion*.

The cooperation of the alumni during our winter rush helped us attract a sizeable pledge class. The 16 pledges have assisted locally with a national Boy Scout drive and have donated blood to the Red Cross.

In other chapter news, sophomore members Steve Richardson and John Ench were in the U. of L. delegation which attended the Southeastern Interfraternity Conference held at Memphis, Tennessee, February 28 and March 1. Of the 44 schools represented, our Chapter was the only professional fraternity at the conference. I.F.C. members from

other schools expressed an interest in having professional fraternities on their campus join their local organizations.

Past Grand Regent C. Ramond Hanes attended our March 5 meeting. We were all honored by his presence and enjoyed hearing about the activities of other chapters.

Finally, the Kentucky Derby is coming up May 3, and as usual, the house will be open. Here's hoping to see y'all during Derby!

J. STIVERS
Corresponding Secretary

EPSILON BETA CHAPTER



Our alumni are in the process of helping the active chapter clear some legal problems with the City of Detroit over changing our new house from an "apartment dwelling" to a "multiple dwelling." Without the legal advice of the alumni, the actives could have been required to apply for \$1000 worth of city permits to change the plumbing, electricity, room dividers, etc. The Alumni Association still owns our old chapter house. The financial burden coupled with necessary improvements to the new house requires constant control of alumni and active budgets. Thanks to some brilliant dedication on both sides, everything has gone smoothly.

The bond between an alumni body and its active chapter is a fragile entity. A casual glance at the past active body composites and those of recent years reveals an interesting fact. The average age of the active body has lowered, indicating younger and less experienced student engineers to cope with the responsibilities of maintaining the chapter house and supporting the College of Engineering. Granted, one of the functions of an active membership in Theta Tau is to develop leadership, but leadership draws heavily on experience. The alumni body has the engineering and legal experience to help the active chapter over the rough spots. Therefore, communications between the actives and alumni acts as a lifeline necessary for success of both organizations.

Communication breakdowns many times cause dissent and misunderstanding between actives and alumni. These breakdowns must be avoided, and many of the active-alumni activities are designed to prevent this from occurring. The Detroit Alumni Association holds meetings at the chapter house the first Friday of each month. Active chapter meetings begin at 4:30 every Friday. The concurrence of Friday meetings promotes attendance at both meetings by actives and alumni. Alumni meetings are "shortened" at least three times a year to provide enough time for stag parties sponsored by the current pledge class. Monthly newsletters are sent out jointly by the actives and alumni to all alumni current in paying their dues. Social functions include a Memorial Day picnic, New Years Eve party, and Founders' Day celebrations, all traditional occasions. Informal ac-

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tivities such as ski trips to Boyne Mountain and canoe trips on the Pine River are heavily attended by actives and alumni. The alumni chapter is currently helping the actives plan a rally course for April 26. The road rally is a money making project and will be open to the student body at Wayne State.

THOMAS M. FIELD
Corresponding Secretary

ETA BETA CHAPTER



Eta Beta Chapter is embarking upon a new phase of alumni relations. With growing chapter maturity has come the realization of the necessity of strong chapter-alumni ties.

Since Eta Beta Chapter is less than eight years old, little thought has been directed toward maintaining close contact

with those brothers who have graduated and departed from campus and chapter house life. But with each semester the number of alumni is increasing and the brothers of Eta Beta Chapter realize that now is the time to initiate a comprehensive program to reestablish contact with present alumni and maintain contact with future alumni.

As a starting point in this program, Eta Beta Chapter is beginning publication of a semesterly chapter newsletter. This spring will mark its first issue. We are greatly enthused about this newsletter as it marks a new field of chapter aspirations. This newsletter will be sent to all Eta Beta alumni, as well as the other Theta Tau chapters and the national officers.

For the future, increased emphasis will be put on alumni participation in chapter affairs. Immediate goals are the return of as many alumni as possible to the Chapter's anniversary and Founders' Day celebrations. More farsighted plans foresee the time when alumni advice and support are needed in major decisions confronting the Chapter, such as purchase of a newer and larger fraternity house.

Whatever path future alumni relations take, the brothers of Eta Beta Chapter feel that stronger alumni ties are necessary to our Chapter's growth and maturity. One of the strongest fraternal bonds is that of tradition and heritage, and to achieve this unity, alumni must be brought into closer contact with the active chapter. This is the goal of Eta Beta Chapter.

KEITH SELBYSON
Corresponding Secretary

THETA BETA CHAPTER



The brothers at Theta Beta Chapter have been earnestly working this year to acquaint the sophomore engineering students at the University of Washington with Theta Tau. We have just completed sending

invitations to them and hope that many will

wish to attend the first open meeting of the spring quarter. We hope to form a large pledge class and thus raise our membership which we feel is presently too low. Any advice or ideas from other brothers on the subject of making Theta Tau more widely known on campus would be greatly appreciated.

Besides the efforts in our pledging program, we also found time for many other functions. For a social function during autumn quarter we attended the fantastic science-fiction movie, "2001, A Space Odyssey," followed by a pleasant feast at Farrell's, a popular old fashioned ice cream parlour and restaurant in Seattle. Everyone had a fine time.

In an open meeting we were fortunate to have as speakers two employees of Standard Oil Company's Western Operations Division. They provided such interesting and valuable information and answered questions concerning engineering opportunities and experiences in large companies.

The high point of our intellectual enlightenment this year was a tour through the Rainier Brewery in Seattle. The tour was very informative and rewarding and we all left the brewery with, at least temporarily, a slightly different perspective on things.

Theta Beta Chapter is looking forward to having another active and beneficial year at the University of Washington.

DON LEGG
Treasurer

IOTA BETA CHAPTER



Iota Beta Chapter of Theta Tau Fraternity is a relatively new chapter, being established on February 15, 1964. Thus, we have a fairly small number of alumni, approximately 70, and the majority of these are residing outside the Detroit area. As of now, we do not have a very active Alumni

Association but we are working on it.

Our Alumni Chairman is responsible for the active Fraternity's relations with the alumni. He is in charge of keeping current addresses up to date and of contacting alumni about social events. Furthermore, he is in charge of putting out an alumni newsletter a few times each trimester to help the alumni keep track of what is happening in the Fraternity.

Each trimester we have a stag party so that the alumni and the actives can get together. Lately we have been trying to make a more determined effort to unite the alumni and a couple of parties were set up only for the alumni. These efforts were not quite as successful as we had hoped, but they did show some promise for the future.

Right now we do have an Alumni Association and it is through their help that we hope to obtain a fraternity house. In the future we will continue to strive towards keeping track of our alumni and to unite them into a strong and active association.

DALE DOLES
Alumni Chairman

KAPPA BETA CHAPTER



Kappa Beta Chapter maintains and cultivates contact with its alumni through the semester newsletter. The newsletter is our main source of contact with our alumni. Also, the active members correspond with many of the alumni who have recently graduated and are in contact with other alumni in their area.

Through this correspondence we are informed of address changes and the progress of many of our alumni. Also, the alumni visit the house from time to time and the Chapter is thus informed as to the status of the alumni. The job of keeping track of our alumni is somewhat easier than many of the chapters because Kappa Beta is the second youngest chapter in the Fraternity and has relatively few alumni.

The Chapter sponsors several campus blood drives throughout the school year, and recently the Chapter received a Civic Award (traveling plaque) from the Birmingham Regional Red Cross Program. Each spring the Chapter holds its annual Senior Recognition Banquet at which time the Outstanding Senior and Outstanding Pledge are announced.

A senior pledge has been started at Kappa Beta where a member may voluntarily pledge any sum of money and specify the length of payment to the Chapter. The senior pledge was instituted two years ago and the tradition is being carried on by the graduating seniors.

Engineers' Week is one of the most significant chapter events of the school year. A banquet is held during the week at which a prominent engineering figure is the main speaker. This year for the first time an Engineering Sweetheart was elected by the engineering students. Each technical society elected a sweetheart, and then the engineering students elected one of these girls as the Engineering Sweetheart. The members of the Chapter serve as guides for a tour of the College of Engineering on Engineering Day. On this tour the visiting students are taken through the departments of the College of Engineering where exhibits and demonstrations have been set up. The Fraternity presents an award to the engineering department which has the best exhibit or demonstration.

JERRY BANKS
Corresponding Secretary

LAMBDA BETA CHAPTER

At Lambda Beta, the newest chapter of Theta Tau, the topic of alumni relations is one that we know least about. However, our chapter newsletter *As The Gear Turns* is published twice annually (spring and fall) and is distributed to not only our own alumni, but also to the other Theta Tau alumni in the state of Tennessee. We encourage all of our alumni to submit any letters they would like published to our Alumni Relations Committee. The committee also writes an article that would be of specific interest to the alumni and submits this article along with the alumni letters to



Richard Frounfelker, Lambda Beta, explains his prize winning exhibit, "Ultrasonics in Industry," at Tennessee Tech's Engineer's Day.

the editor of our newsletter for publication in the alumni section.

The Alumni Relations Committee has also been set up for the purpose of corresponding with our alumni. In addition, this committee makes motel reservations and reserves tickets for alumni and their wives when they return for any occasion, especially Homecoming. This committee also purchases a subscription to the University newspaper, *The Oracle*, which is sent weekly to our alumni.

We are in the process of forming a House Corporation and as soon as possible, we are going to send a letter to each of our alumni inviting them to help us set up final plans. Jim Ferguson, an alumnus here at Tech, has been working closely with us on the formation of the Corporation as well as many other fraternity matters.

We are anxious to receive the next copy of *THE GEAR* so that we can find more and better ways to have good alumni relations.

Although the portion of our letter on alumni relations is short, we are proud to say that all of



Don Warden of Lambda Beta made yo-yo's for a time and motion study during Engineer's Day at Tennessee Tech.

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our members participated in Engineers' Day. Our Engineers' Day was held Wednesday of National Engineers' Week. Since many of our members had exhibits, the Chapter did not participate as a group.

Our Engineers' Day is sponsored by the Engineering Joint Council, whose officers are all Theta Taus. Many members of the Chapter served as chairmen for Engineers' Day committees. Rick Charles was general chairman and five of the seven subcommittees were also headed by Theta Taus. In addition to serving on committees and manning exhibits, many volunteered their services as guides.

Engineers' Day exhibits at Tech involve all phases of engineering work. The tour takes one through both engineering buildings and also through the Industrial Technology Department. At the entrance of Clement Hall was a large 8-foot rotating sphere designed by Brother Rick Charles. It was made of aluminum rods serving as meridians and copper screens and tubing forming the continents. In the center was a smaller sphere, covered with small mirrors which reflected the yellow, blue, red, and green lights that were mounted at the base of the sphere.

In the senior projects lab, Brother Richard Frounfelker demonstrated an ultrasonic welding device. Richard won first place in the individual projects division and was awarded a trophy and a check for \$50.00.

Although Lambda Beta Chapter is not active as a group during Engineers' Day, we feel that Theta Taus at Tennessee Tech participate actively in the best Engineers' Day that can be boasted by any other university where there is a chapter of Theta Tau.

WILLIAM MICHAEL HARRISON
Corresponding Secretary

GMI COLONY

The primary means of contact utilized by the GMI Colony in maintaining ties with alumni is the newsletter sent out during each school session. In addition, since a large number of our alumni reside in the Flint area, all of our social functions are open to those alumni who can attend.

Each year on graduation weekend in August, the actives sponsor a dinner-dance for those alumni returning from their fifth-year projects to graduate. This event is also open to graduate alumni from previous years, and has proved to be a very successful event!

Since we are a relatively young organization, and the number of alumni we have is comparatively small, we have no formal program encouraging the financial support of alumni. Past senior classes, however, have agreed to pledge the last hourly paycheck from their cooperative work to an alumni fund. Efforts are now being made to formalize this program, or one similar to it.

We are confident that as our alumni increase in numbers, a stronger program for contact and financial support will be implemented.

The high point of this year's activities for the GMI Colony was our second annual observance of Engineering Week at GMI. This year's observance was extremely successful in that it was held in conjunction with the Saginaw Valley Engineering Con-



A popular exhibit during Engineering Week was the analog computer B-52 flight simulator built by GMI Colony.

ference (SVEC) program, which enabled us to present a much broader spectrum of events to both the student body and SVEC members.

The week's events included vendor displays which highlighted the latest developments in industrial electronic equipment, office equipment, industrial lighting, and heavy duty transmissions, to name a few. In addition several GMI departments had displays, the most interesting of which were holography and an analog computer simula-



GMI Colony members manned the Theta Tau booth during Engineering Week at their school.

tion of piloting a B-52. The student body was also invited to attend a series of seminars sponsored by the SVEC. Some of the topics discussed were integrated circuits and systems theory as applied to the industrial situation.

During the week Theta Tau men served as guides on a tour of the laboratory facilities at GMI for SVEC members. Some of the most interesting presentations were about the numerical control and integrated circuits labs. Colony members were the guests of the SVEC at its dinner meeting held the evening of February 20.

The finale to the week's activities was a speech by Dr. Imants Beba of Illinois Institute of Technology on the comads and teapot effects in fluid flow as applied to mass transportation.

The week was so successful that the SVEC is interested in making the co-sponsored observance an annual event.

The GMI Colony of Theta Tau has had many activities and achievements during the past year. The fraternity is now maintaining an 86.6 grade average as compared to the school average of 84.0. Along another line, we have initiated eighteen fine men into the colony. In sports, the colony is becoming more and more a well known power in intramural sports.

The GMI Colony of Theta Tau extends a standing invitation to all chapters to exchange ideas with us during a visit to the Colony house in Flint, Michigan.

MICHAEL E. IZSIKOWSKI
Corresponding Secretary

DETROIT ALUMNI ASSOCIATION

The Detroit Alumni Association is probably the most active alumni group within Theta Tau.

Monthly meetings are held the first Friday of each month at 8:30 p.m. at the Epsilon Beta Chapter house. These are more informal discussions with the ultimate purpose in being a good game of poker, bridge, gin, or pool. Pizza at a local restaurant always follows. If ever a Theta Tau alumnus is in the Detroit area on the first Friday, he can be assured a hearty welcome and an entertaining evening.

A natural offspring of the monthly meeting was the formation of a bridge club for husbands and wives. This club is open to all Theta Tau married couples and has been growing in membership throughout the years. The club meets once a month at different couples' homes where a competitive, but cordial game of party bridge is played. A tournament is held each September with awards being presented at the annual Founders' Day

Dinner Dance, a joint venture with Epsilon Beta Chapter.

Other events during the year involve golf outings and a yearly trip to French Lick by some of the more avid devotees. A joint active-alumni picnic is held each Memorial Day, with the active-alumni baseball game being the featured event.

The Association has actively contributed to the purchase of the chapter house held by Epsilon Beta. Between 10 and 20 former Epsilon Beta alumni have loaned a total of \$10,000 to the Chapter with 70 to 80 other alumni donating anywhere from \$20 to \$100 each for the purchase of the house.

In that the Association consists of almost all Epsilon Beta alumni, housing business occupies a great portion of the business meetings. As yet, no members from Iota Beta at the University of Detroit have ventured over to the Association. This is due to a lack of communication on our part. In the next year we hope to rectify this deficiency.

A monthly newsletter is sent to all dues paying members of the Association informing them of social events, items of professional interest, bridge club scores and "general bull." Our mailing list this year consists of 87 men in good standing.

The friendships born within Theta Tau have been nurtured and maintained after graduation by active membership in the Detroit Alumni Association. To any Theta Taus within the Detroit area who chance to read these words and who are not presently affiliated with the Detroit Alumni Association, we extend a sincere invitation to stop in and get acquainted.

ED VAN EURLANDER
President

NATIONAL CAPITOL ALUMNI ASSOCIATION

During the 1968-69 school year, the National Capitol Alumni Association has not had any formal organized activities with or without the local Gamma Beta Chapter. However, on an informal basis we had a social reunion of a dozen members and their wives at Brother Ray Morales' home in McLean, Virginia on January 18, 1969. This gathering was organized by Brothers Dan Havens and Ray Morales.

Association members have also attended the social functions and initiations of Gamma Beta Chapter. Special credit is due Brothers Doug Jones and Carl Walther for their extra efforts on behalf of Gamma Beta.

HERB WILKINSON
Secretary

To: All Members of Theta Tau

Official notice is hereby given that the following is no longer a member of Theta Tau:

GERALD DON EMMERT, Upsilon '69 (Roll No. 669).

Each member should take due notice thereof, and govern himself accordingly.

In H and T,

ROBERT E. POPE, Grand Scribe

Student Member News

OMICRON CHAPTER

As in the past, Omicron Chapter's members are also the outstanding leaders in the College of Engineering and the campus of the University of Iowa. Two of our most active members are seniors Burton Kross and Kent Anderson. Brother Kross is a chemical engineer graduating in August and Brother Anderson is an industrial engineer graduating in June. Both have been active in Omicron Chapter duties and extracurricular activities.



Kent Anderson

35 per cent of his college expenses by scholarship, receiving Freshman Merit, Lloyd Knowler, and Mobil Oil Scholarships. In the Engineering College, Burt has served as editor and general manager of the *Iowa Transit*, the student engineering magazine. Other campus activities are student branch of AIChE, MECCA committees, and Newman club. Last year Burt was honored by receiving the Theta Tau Achievement Award given to the outstanding student in the College of Engineering. This was the first time the award has been given to a junior. This former Eagle Scout was also honored by invitation to the Finkbine Leadership Dinner for Men, sponsored by the administration of the University of Iowa. In addition to all of his activities, Burt manages to work at the University Water Plant about 20 hours a week, and he is still willing to volunteer when asked to do extra work.

Brother Anderson is a good example of the campus leadership the men of Omicron Chapter can provide. His interests and activities range far outside the confines of the Engineering College, yet he is still one of the most active students in engineering organizations. Kent is currently serving as president of the student branch, AIIE and as Regent of Omicron Chapter, Theta Tau. Last year he was coordinator of the 1969 Engineering Yearbook of Graduating Seniors, and served on the business staff of the HAWKEYE Yearbook, the student yearbook of the University of Iowa. This year Brother Anderson is the business manager of the HAWKEYE. His other campus interests have ranged from Orientation Leader, to Union Board

Committee, to music. Kent has played in the Iowa Marching Bands, the University Orchestra and the Symphony Band. As a French horn player, he was a member of the 1966 University of Iowa European Tour Band that spent the spring of 1966 touring seven European countries and Russia. Since then, he has continued his musical interests as a professional musician playing in the Tri-City Symphony, where he started as a senior in high school. He has also been active on Open House and MECCA Week committees in the Engineering College. Brother Anderson received the commendation for National Merit Scholarship and was also awarded Freshman Merit and Activities Scholarships. He has maintained an interest in the Boy Scouts of America and last summer passed up an opportunity to work as an Advanced Program Director for an area scout camp. He was also honored by invitation to the Finkbine Leadership Dinner for Men and was a candidate for Senior Class President.

Kross has earned

ETA BETA CHAPTER

This year has held many memorable events for the Theta Taus at the University of Houston. Perhaps the most memorable was the presentation of a well-deserved award to one of the brothers as a *clausus* in Engineering Week.

At the banquet held by Region IV of the Texas Society of Professional Engineers at the Shamrock Hilton, over 800 guests applauded as Brother Tom Bookout was presented as the recipient of an award denoting him as the Outstanding Senior Engineering Student at the University of Houston.

Brother Bookout, an industrial engineering major, besides being an outstanding active member of Theta Tau, is also president of the AIIE student chapter and immediate past president of the University of Houston Society of Engineers. He is also a member of Tau Beta Pi, engineering honor society.

KEITH SIMPSON
Corresponding Secretary



Tom Bookout, Eta Beta, received the Outstanding Senior Award at the University of Houston from Guy Furgivele, president of the San Jacinto Chapter of the Texas Society of Professional Engineers.

Additions to Membership

ALPHA CHAPTER

- 810 Gary Douglas Kakach, Eden Prairie, Minn.
811 Gale Kenneth Nordling, Hallock, Minn.
812 David John Anderson, Moose Lake, Minn.
813 Marvin Edward Prall, Waterville, Minn.
814 John Allen Trine, Stillwater, Minn.
815 Frank James Nisbet, Roseville, Minn.
816 Christ Harbey Christensen, Winona, Minn.
817 Richard Scott Redfern, Kasson, Minn.
818 David Joseph Theriault, St. Paul, Minn.
819 Richard James Peyla, Tower, Minn.

BETA CHAPTER

- 996 Pentti Oliver Tegellberg, South Porcupine, Ontario, Canada
997 David Clifford Gehring, Minneapolis, Minn.
998 Gary Raymond Guntber, Binghamton, N.Y.
999 James Richard Skelding, Kalamazoo, Mich.
1000 Jerry Edward O'Neill, Hancock, Mich.
1001 Thomas Miles Plutchak, Mass, Mich.
1002 Gerald Ted V Paddan, Dearborn, Mich.
1003 John Andrew Moscheck, Hancock, Mich.
1004 Dame Alvin Dominici, Iron River, Mich.
1005 Lyle James Northrop, Glenavon, Saskatchewan, Canada
1006 Edmund James Niedbalski, Jr., Rochester, Michigan
1007 Henry Simon Santeford, Jr. (Honorary), Hancock, Michigan

ZETA CHAPTER

- 716 Michael Wayne Freeman, Kansas City, Kansas
717 Louis Steven Herwig, Overland Park, Kans.
718 William Franklin Moore III, Bartlesville, Oklahoma
719 Richard Michael Kovich, Kansas City, Kans.
720 John Armstrong Heather, Jr., Prairie Village, Kansas
721 Larry Mark Newcomb, Overland Park, Kansas

THETA CHAPTER

- 727 Steven Marc Chervin, Flushing, N.Y.
728 Ed Ming Chin, New York, N.Y.
729 Arthur Djang, Roslyn, N.Y.
730 Richard Alan French, Laurelton, N.Y.
731 Richard Hong, Jamaica, N.Y.
732 William Douglas Hooper, Huntington, N.Y.
733 John Stanley Horvath, New York, N.Y.
734 Gary Edward Israel, Bronx, N.Y.
735 Ghester Lee, New York, N.Y.
736 Victor Lee, Brooklyn, N.Y.
737 Steven Eric Stern, Flushing, N.Y.
738 Steven Joseph Varadi, Elmhurst, N.Y.
739 Lawrence Dennis Weinstein, Douglaston, New York
740 Richard Scott Westin, Massapequa, N.Y.
741 Gerald Norman Goldsmith, Bronx, N.Y.
742 Gerald-Emile Brun, Port-au-Prince, Haiti
743 Douglas Ernest Hartel, Huntington Station, New York
744 David Robert Hatch, Oradell, N.J.
745 Ira Seth Kastenber, De Witt, N.Y.

- 746 Daniel Bruce Kessler, Woodside, N.Y.
747 Alfonso Lau, New York, N.Y.
748 Andrew Nicholas Stathopoulos, Long Island City, New York
749 Robert Murray Surgan, Tenafly, N.J.

IOTA CHAPTER

- 1096 Stephen John Brunkhorst, St. Louis, Mo.
1097 James William Hellwege, St. Louis, Mo.
1098 John Bernard Henneke, Florissant, Mo.
1099 Rex Edward Kenyon, Springfield, Ill.
1100 James Michael Joseph Kuenz, St. Louis, Missouri
1101 Joseph Edward Martin, Jr., Springfield, Mo.
1102 Carm Robert Moehle, Richmond Heights, Missouri
1103 David Louis Mueller, Creve Coeur, Mo.
1104 Stephen Lyle Pitner, Springfield, Mo.
1105 Peter Walter Carl Sanocki, St. Louis, Mo.
1106 Thomas Albert Schob, Florissant, Mo.

LAMBDA CHAPTER

- 907 Robert Paul Gardner, Salt Lake City, Utah
908 Ronald Clay Westlund, Salt Lake City, Utah

MU CHAPTER

- 929 Michael Stephen Abbott, Birmingham, Ala.
930 Bruce Henry Anderson, Huntsville, Ala.
931 Walter Roland Cervantes, Puna, Peru, S.A.
932 Eric Milner Cooper, Bynum, Ala.
933 Donald Burgess Leonard, Birmingham, Alabama
934 Donald Emil Raab, Tuscaloosa, Ala.
935 Ronald Paul Steele, Tuscaloosa, Ala.
936 Joseph Ronald Stone, Birmingham, Ala.

XI CHAPTER

- 330 Max Charles Gordon, Racine, Wis.
331 Gregory John Hildeman, Watertown, Wis.
332 Annkalya Irasena, Bangkok, Thailand
333 Richard Lee Jenks, Wausau, Wis.
334 Roy Kitaoka, Milwaukee, Wis.
335 Geoffrey Henry Pertzborn, Madison, Wis.
336 Stephen Van Vleet, Milwaukee, Wis.

OMICRON CHAPTER

- 762 Jack William Andrewson, Des Moines, Iowa
763 Robert Lee Coats, Jr., Victor, Iowa
764 James Lee Conrad, Grettinger, Iowa
765 Frederick Martin Eggers, Newwalk, Iowa
766 Warren Carlos Fierco, Jr., Davenport, Iowa
767 Herbert Arthur Iburg, Williamsburg, Iowa
768 Larry David Jones, South Haven, Mich.
769 Lawrence Wilfred Kruse, Salem, Iowa
770 Stephen Mark Somermeyer, Hamburg, Iowa
771 Robert Allan Walshire, Mechanicsville, Iowa
772 David Leslie Wood, Union, Iowa
773 Terry Lee Wylie, LeClaire, Iowa

RHO CHAPTER

- 751 Charles Lee Corpening, Jr., Canton, N.C.
752 Dale Wade Duncan, Greensboro, N.C.

THE GEAR OF THETA TAU

- 753 Daryl Jake Garrett, Hickory, N.C.
754 Roger Dale Towse, Cassler, N.C.

SIGMA CHAPTER

- 627 Howard Bert Bumgarner, Westchester, Ohio
628 Donald Thomas Kiefer, St. Albans, W. Va.
629 Randy Owen Knapp, Lexington, Ohio
630 Robert Carey Prior, Columbus, Ohio
631 Jerry Robert Wood, Akron, Ohio
632 Robert Lee Sweitzer, Springfield, Ohio

TAU CHAPTER

- 703 Robert Perkins Chase, New Berlin, N.Y.
704 Robert Joseph Ortiz, Huntington, N.Y.

UPSILON CHAPTER

- 710 Charles Russell Jackson, North Little Rock, Arkansas
711 Harry Glen Elrod, Benton, Ark.
712 William Montgomery Plunkett II, North Little Rock, Ark.
713 William Standley Eden, Fort Smith, Ark.
714 Jerry Edward Howard, Hot Springs, Ark.
715 Donald Joe Elrod, Benton, Ark.
716 Michael Ray Childers, Wynne, Ark.
717 Dennis Eugene Ferry, Bridgeville, Pa.
718 Michael Andrew Lumbard, Paris, Ark.
719 Donald Wayne Dillard, Murfreesboro, Ark.
720 Charles Craig Metcalf, Crossett, Ark.
721 John Reynolds Rutledge, Smackover, Ark.
722 George Benjamin Smith III, Fort Smith, Arkansas
723 Joseph Michael Miles, Peoria Heights, Ill.
724 Robert Lewis Tucker, Jr., Djakarta, Indonesia
725 Thomas Benton Walker, Jr., Camden, Ark.

PHI CHAPTER

- 439 Michael Richard Adams, West Lafayette, Indiana
440 Jimmy Lee Baker, Plymouth, Ind.

CHI CHAPTER

- 749 Daniel Edward Borchers, Oakhurst, N.J.
750 John Encarnacion Flores, Miami, Ariz.
751 George Robert McLaughlin, Calabasas, California
752 Howard Ong, Phoenix, Ariz.
753 Bruce Alan Striver, Pittsburgh, Calif.
754 Eddie Lorenz Zeiler, Tucson, Ariz.

PSI CHAPTER

- 509 Harry Charles Sowers, Hagerstown, Md.
510 Michael Edward O'Keefe, Butte, Mont.
511 Thomas Paul Richmond, Great Falls, Mont.
512 Roger Dale Nagy, Huson, Mont.

- 513 Ronald George Deriana, Butte, Mont.
514 Terrence Jay Cos, Moiese, Mont.
515 Claude Douglas Huber, Butte, Mont.
516 Roger Phillip Miller, Lima, Peru, S.A.
517 James Jacob Benner, St. Regis, Mont.
518 Thomas John Schneider, Phillipsburg, Mont.
519 Lee Willbert Staiger, Missoula, Mont.
520 Charles Lee Herndon (Honorary), Butte, Montana

EPSILON BETA CHAPTER

- 232 Howard Henry Sidebottom, Wyandotte, Michigan

ETA BETA CHAPTER

- 151 Terence Sai-Tak Cheng, Kwunlong, Hong Kong
152 Steven H. Godkin, Houston, Texas
153 Stephen Ferguson Hager, Mercedes, Texas
154 John Allen Johnson, Houston, Texas
155 John Robert Wolf, Jr., Pasadena, Texas

THETA BETA CHAPTER

- 57 Gary Dale Criscione, Seattle, Wash.
58 George Edward Kase, Vancouver, Wash.

IOTA BETA CHAPTER

- 122 James William Birmingham, Whitesville, New York
123 James Joseph Davenport, Williamsville, New York
124 Thomas Julian Kolber, Buffalo, N.Y.
125 Robert Kieran Laba, Lincoln Park, Mich.
126 Damian Anthony Tryjankowski, Buffalo, New York

KAPPA BETA CHAPTER

- 107 James Anthony Blanchard, Gulfport, Miss.
108 David Lynn Bushman, Winton, Calif.
109 Joseph Clarence Fuller, Quitman, Miss.
110 James Leonard Holzhauer, Gillett, Ark.
111 Michael Hope Little, New Hebron, Miss.
112 Stanley Gill Whitfield, Jackson, Miss.

LAMBDA BETA CHAPTER

- 18 Frank Bristol Harris, Jr. (Charter), Cookeville, Tenn.
40 Joseph Edward Hammonds, Jackson, Tenn.
46 David Jonathan Irvin, Algood, Tenn.
52 Thomas Stanley Pittman, Chattanooga, Tennessee
54 Kelton Levell Owen, Jr., Donehon, Tenn.
55 Doyle Holt Parsons, Shelbyville, Tenn.
56 Robert Ernest Radley, Nashville, Tenn.
57 William Medearis Smith II, Fayetteville, Tennessee
58 Donald Dean Warden, Cookeville, Tenn.

MU BETA CHAPTER APPROVED

As THE GEAR went to press, the petition of the GMI Colony at General Motors Institute, Flint, Michigan, to become a Chapter of Theta Tau was approved by vote of the Chapters and Executive Council. The Colony was certified September 25, 1965, and petitioned the Fraternity to become a Chapter on March 20, 1969. Mu Beta Chapter will be installed at the end of the summer session, about August 1.



Theta Tau Directory

Theta Tau Fraternity was founded at the University of Minnesota, Minneapolis, Minnesota, on October 15, 1904, by: ERICH J. SCHRADER; ELWIN L. VINAL, 4039 West Mercer Way, Mercer Island, Washington 98040; WILLIAM MURRAY LEWIS; and ISAAC B. HANKE.

PAST GRAND REGENTS

- ERICH J. SCHRADER, *Alpha*, (1904-1919)*
 GEORGE D. LOUDERBACK, *Epsilon*, (1919-1925)*
 J. SIDNEY MARINE, *Eta*, (1925-1927), 45 Popham Road, Scarsdale, New York 10583
 RICHARD J. RUSSELL (DR.), *Epsilon*, (1927-1931), 4575 Highland Rd., Baton Rouge, La. 70808
 FRED COPPMAN, *Lambda*, (1931-1935)*
 HERMAN H. HOPKINS, *Beta*, (1935-1937), 3320 Culver Avenue, Evanston, Illinois 60201
 JOHN M. DANIELS (DR.), *Nu Hon.* (1937-1939), 338 Cole Road, Sarver, Pa. 16055
 RUSSELL G. GLASS, *Sigma*, (1939-1946), Saddleback Lane, Gates Mills, Ohio 44040
 RALPH W. NUSSE, *Zeta*, (1946-1948), 609 West Dartmouth, Kansas City, Missouri 64113
 NORMAN B. AMES, *Gamma Beta*, (1948-1950)*
 DONALD D. CURTIS, *Omicron Hon.* (1950-1952)*
 JAMISON VAUTER, *Zeta*, (1952-1954)*
 A. DEXTER HINCKLEY, *Theta*, (1954-1958), 154 East River Road, Guilford, Conn. 06437
 CHARLES W. BRITZIUS, *Alpha*, (1958-1962), 662 Cromwell Avenue, St. Paul, Minnesota 55114
 WILLIAM K. REY (PROF.), *Mu*, (1962-1966), P.O. Box 664, University, Alabama 35486
 C. RAMOND HANES, *Sigma*, (1966-1968), 551 E. Dominion Blvd., Columbus, Ohio 43214

* Deceased

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There'll Be Some Changes Made

It was a difficult choice. You don't easily give up something that has become a part of your life. But the press of other responsibilities had led to slippage of THE GEAR publication schedule more than once. So the decision—eight years is long enough for Theta Tau to be exposed to this editorial team. Therefore we stand aside and look to the introduction of new blood.

I say "we" because it's been a team effort, with the GEAR secretary (Mrs. Franklin) doing the grubby day to day work and a lot of the Editor's chores. The Editor set the policy, took care of the business and finances and wrote an article or two along with the editorial (always last, late, and in a fit of desperation). During the eight years GEAR circulation to alumni was increased from 4,519 to 10,894 under an intensive effort to reach all alumni. This is about 62% of living alumni.

It's had its moments. Bad. Good. Fun. Funny. For bad nothing will beat the first issue (Fall 1961) when we raced the stork and THE GEAR lost; sheer exhaustion nearly

took us on that one and a number of subsequent issues. For good, there's nothing like performing a service to the members of this Fraternity, who have been kind and understanding and complimentary; the friendships are deeper. Fraternity means more. For fun, it was always a joy to see each issue finished and in the mail. Or battling the Post Office through four addresses in three states. The funny aspects must go to the students. No one can top those eager and earnest student members. Like the one who once sent Christmas greetings to "you and your staff." The unedited chapter letters would fill a book entitled *Misuse of the English Language*. Their letters may be signed "Respectively submitted," but they do pretty well at that.

Theta Tau retains my services in a different place, but may have lost the other half of the team to her own profession—engineering. I wish my successor the full range of experience—rewards gained from perseverance and joy from service to his Fraternity brotherhood.—WEF

Principles That Endure

This is a time of testing of the national will. The students rebel and we are confounded by the din on all sides. As professional people we sometimes wonder what the fuss is about (engineering students generally attend class oblivious to or disgusted by the antics of the minority). We know the principles that make our Fraternity strong; that build character; that make a great nation and people.

But now we must differentiate a vocal and activist, even violent minority. Identify and *reject* the anarchists—the ones who would destroy the principles we believe in. Identify and *pity* those who reject society because they cannot face the responsibility of choices and hard decisions of today's world of opportunity and unrest. Identify and *support* those who rebel against the weaknesses and inadequacies of performance compared to the often spoken high

principles of life. We strive for honor and integrity—friendship and brotherhood—truth and service—courage and loyalty. These are moral principles, principles that make us great as a people and a nation; these are principles of Fraternity.

It's simple. We *perform* against these standards imperfectly. We slip, we avoid measuring up, we preach and don't practice. It was well stated by Sigma Nu: "Honor is the human stand that holds when faults and other weaknesses give way beneath the stresses that attack our human bonds."

But we support the principles. I support those who draw attention to our human weaknesses if they will offer a positive response and a renewal of effort to excel. We need the good judgment to see them as hope among the rabble and the revolutionaries that offer rejection and destruction of society.—WEF

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Send names and addresses of any alumni you know who may not be receiving THE GEAR to Theta Tau Central Office, 13 Sona Lane, St. Louis, Missouri 63141.

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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 be considered for Theta Tau membership:

Name _____ School _____

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| Greek letter decal (package of two) | 0.10 |
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