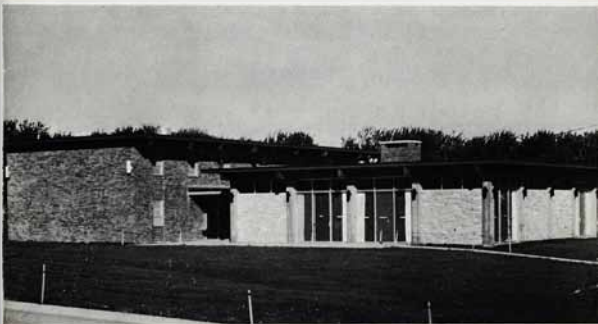


The GEAR of THETA TAU



ZETA CHAPTER'S NEW HOUSE AT THE UNIVERSITY OF KANSAS

FALL 1968

VOLUME LVIII

NUMBER 1

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The Gear of Theta Tau

FALL 1968

VOLUME LVIII NUMBER 1

Board of Editors

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

J. W. HOWE

Contents

Lambda Beta Chapter is Installed	2
Pea Picking	5
Grand Regent's Message	8
Contributors to Theta Tau Progress	9
Alumni News	10
<i>Theta Taus in Key Roles at Black & Veatch</i>	10
<i>Lambelet in India for the United Nations</i>	13
<i>Walter Wheeler Still Going Strong</i>	14
<i>Sommermeier is Vice President of United</i>	15
<i>Long Career in Petroleum for Sunan</i>	15
<i>General Price Retires; Receives Medal</i>	16
<i>George Eagle Featured in Public Works</i>	17
<i>Basketball a Life Career for Bunn</i>	17
<i>Feierabend Heads Mining Engineers</i>	18
<i>Cudworth Helps Develop Artificial Arm</i>	19
<i>Dean Branigan is President of Two Societies</i>	19
25 Years Ago	20
In Memoriam	21
Alumni Notes	25
Chapter News	42
Additions to Membership	55
Theta Tau Directory	59

Cover Photo: Zeta Chapter reached a milestone in its history in September 1968, when its new chapter house was completed and the members occupied the structure. This is only the second completely new house to be built for a chapter of Theta Tau, and it is the Fraternity's largest with a planned capacity of 52 men and a housemother. Chapter housing is highlighted in this issue in the Chapter News section.

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Lambda Beta Chapter is Installed

by Charles E. Wales, Grand Vice Regent

It was a beautiful fall afternoon as my wife and I drove south from Dayton, Ohio, headed for Cookeville, Tennessee. We were on our way to the installation ceremony which would convert the Tennessee Tech Colony into Lambda Beta Chapter of Theta Tau. The trees along our route, which were just beginning to turn to their fall colors, added a bright note to the delightful, rolling hills of Kentucky. The new freeway made our drive a pleasure and if you are fascinated by rocks, as I am, you will find the deep cuts along the road an added attraction. In the area where the freeway is not finished, the old road follows the twisting path of an ancient mountain creek. Although the pace along this part of the road is quite slow, the lovely scenery is worth the delay. It seems a shame that some day soon most travelers through this area will miss these canyon views.



The sun set in a sky of red about a half hour before we reached Cookeville. At our motel we met Grand Regent Hanes, Grand Scribe Pope, and Past Grand Regent Rey and his wife. Together we all drove into town to meet the men of the Colony at their house. We were greeted by a welcome sign above the door and a large group of friendly colony members and visiting brothers from other chapters on the porch. After two hours of coffee, doughnuts, and enjoyable

conversation we returned to our motel impressed with the fact that the men of this colony were typical of the talented men found in every chapter of Theta Tau.

Early Saturday morning the installation team assembled at the Wesley Foundation Methodist Campus Center to arrange the facilities and review their roles in the afternoon ceremony. The team included the four attending national officers and Brothers Barry N. Still, Regent, Mu Chapter; Joel Schwartz, Regent, Delta Beta Chapter; and Leon H. Carter, Regent, Kappa Beta Chapter. Later in the day this team installed the Lambda Beta Chapter of Theta Tau and initiated the Charter, student, and alumni members of the Chapter using the impressive ceremony we all know so well.

Charter members initiated were Wiley William Thompson, Jr.; Thomas Edward Chaffin, Jr.; Charles Clifford Queen, Jr.; Harvill Carlton Eaton; Stephen James Barth; William Mountjoy Cloud, Jr.; James Edward Brock; Donald James Campbell; James Randolph Davenport; James Steven Dozier; James Everett Ferguson; Carl Hubert Fritts, Jr.; Jack Steven Goldenberg; William Michael Hairston; Larry Michael Kirk; Glenn Minor MacIn; Gary Leslie Sullivan; Thomas Sebastian Tarry, Jr.; and George Richard Buchanan.

Thomas N. Porter was initiated as a charter member in October, and Thomas W. Davidson, Everette B. Dyer, Frank Bristol Harris, Jr., Terrill M. McGee, Donald Ray Welch, and Robert E. White will be initiated in the future as charter members.

Others initiated into Theta Tau as part of the installation were Glenn Willard Whittaker; John William Butler; William Clarence Gower; Danny Harber Powell; James Hamilton Lamb; Mickey Vernon Phipps; James Terry Ray; Jerry Earl Sullins; James Austin Teague; Richard Hardesty Charles; Charles Stuart Fox; Richard Edward Frounfelker; Kenneth Riley Gilburth;

Robert Lee Givens; Mike Larry Hampton; Alfred Ray Hancock, Jr.; Wayne David Harkins; James Robert Kincaid, Jr.; Luther Samuel Lambert, Jr.; Jeffrey Thomas Landrum; Lawrence Harris Langham; Charles Douglas Malone; Lindsey Turner Matthews, and Estel Wade Shultz.

One of the most significant factors in this installation was the attendance and obvious interest of brothers from other chapters. On hand to welcome Lambda Beta Chapter to our Fraternity were nine student members from Mu Chapter, five from Delta Beta, seven from Kappa Beta and two who had driven most of the night to represent Epsilon Beta Chapter. Phi Chapter was represented by alumnus Allan E. Hribar ('65), who had just joined the Tennessee Tech



Charles C. Queen and Randy Davenport, new members of Lambda Beta Chapter.

future events. Those of you who live in the Cookeville area could be of immediate help to our new Chapter by offering them advice on their professional program, pledging, chapter operation, house fund, and the many other activities they will be developing.

The final gavel of the installation ceremony came a little later than expected so as soon as it sounded and short congratulations had been exchanged our new brothers scattered throughout the Cookeville area. An hour later they reassembled at the Ramada Inn for the Installation Banquet, bringing with them a group of very lovely ladies. After dinner the new Theta Tau Chapter was welcomed to Tennessee Tech by University President William Everett Derryberry and to the Engineering College by Dean James Seay Brown. Both promised



New Lambda Beta members Harvill Eaton and Glen Maclin.

faculty, and Howard J. Barth ('38), whose son, Stephen, helped establish the Colony. Jack E. Nelson, Omega '47, combined his attendance at the installation with an inspection of the Tennessee Tech campus with his soon-to-be-a-freshman son.

Two other chapters were represented by men who responded to an invitation to all alumni in the Cookeville area. They were Dan McLeod Smith, Rho '66, and John E. Arnold, Chi '67. The fact that both these men drove over from Nashville to join in the installation ceremony and banquet impressed all who attended. We hope that more alumni will demonstrate this kind of continuing interest in Theta Tau at other



Relaxing between Installation events are Mrs. William K. Rey, Grand Regent C. Hamond Hanes, and Grand Scribe Robert E. Pope.



Past Grand Regent William K. Rey, Mrs. Charles E. Wales, and Grand Vice Regent Wales in an informal moment before the Installation.

their support and cooperation to help Lambda Beta become one of the best chapters in Theta Tau and a continuing asset to the University.

Bob Pope extended the welcome from Theta Tau and read a few of the many messages of welcome sent by our Founders, chapters, alumni, and fraternity officers. A member from each chapter delegation added a personal welcome from his group. Then Grand Regent Ray Hanes presented

the Lambda Beta Charter to Chapter Regent Harvill C. Eaton. The response from Brother Eaton and Past Colony President W. William Thompson, Jr., representing the men who had worked so long and hard with such great eagerness and enthusiasm made it quite clear why this local fraternity had become a Colony and then a Chapter so quickly. Continued effort of this kind will make Lambda Beta a vital part of Theta Tau in the years ahead. The new chapter made a presentation to James E. Ferguson, '66, one of the charter members, recognizing his contribution as the first president of Sigma Delta Phi, the local fraternity.

The final formal event of the installation was the banquet address by Past Grand Regent Rey. His talk on "Pea Picking" (see p. 5) identified some of the characteristics of the fraternity system that give these groups continuing strength. The ability to change with the times is one of the most important. In addition, he described some of the long range problems and goals of Theta Tau.

When the last word of the last speech had sounded, some of the members and their ladies left to attend the last half of

Tennessee Technological University is supported by the State of Tennessee and opened its doors to students in 1916. It became a four-year college in 1928 and received full accreditation by the Southern Association of Colleges and Secondary Schools in 1939.

In 1945 Tennessee Tech was organized into five schools: Arts and Sciences, Agriculture and Home Economics, Business Administration, Education, and Engineering. Master of Arts and Master of Science in Engineering degrees have been added.

Bachelor of science degrees are offered in civil, mechanical, electrical, industrial, and chemical engineering, and in engineering science. Master of science degrees are offered in engineering mechanics, systems engi-

neering, electrical engineering, and chemical engineering.

The electrical, mechanical, and engineering science curricula were accredited by the Engineers' Council for Professional Development in 1966.

Since 1964 a new engineering building, a science building, and a physics-math building, as well as residence halls, have been built. Construction is now in progress on an engineering building to house mechanical and electrical engineering. Plans for the immediate future include a new University Center and an engineering building to house civil and chemical engineering.

The enrollment of Tennessee Tech is more than 5,000, an increase of 57% over 1962.



Chapter room of Tennessee Tech showing the Colony flag (before installation).

the Tennessee Tech football game, others stayed behind to talk and say their good-byes. Everyone seemed satisfied with the day's events. We had added what promises to be an excellent Chapter to Theta Tau;

we had initiated some new brothers into our Fraternity; and we made many new friends. But the day was not over for the members of the Executive Council. Within an hour they were together again discussing Fraternity business and planning the details of the Convention which begins on December 27th in Tuscaloosa, Alabama. This Convention will provide the first chance for most of our brothers to meet and welcome the men from Lambda Beta. From what we saw in Cookeville, it seems safe to predict that at the Convention this group of young men will find that they really belong in Theta Tau.

Sunday morning a large delegation of Theta Taus and their ladies shared breakfast and one last conversation. Before my wife and I headed toward Dayton we drove 5 miles south of Cookeville to view the spectacular Burgess Falls. This brings me to the one complaint I have about this otherwise enjoyable trip. One of the activities I enjoy most is creek-walking and no one told me until I was ready to leave that this beautiful falls and canyon were so close by. It's probably a good thing. I'd have been sorry to have missed the installation of Lambda Beta. But if you're in the Cookeville area be sure to do two things: drop in at the chapter house and meet our new brothers and see Burgess Falls.

Pea Picking



This is the speech delivered by Past Grand Regent William K. Rey at the Installation Banquet of Lambda Beta Chapter. Brother Rey serves Theta Tau as chairman of the Long Range Planning Committee, and he is currently busy with plans for the Twenty-Seventh Convention. He is chairman of the Aerospace Engineering Program and director of the Solid Mechanics Division at the University of Alabama.

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In attempting to formulate the long range plans for a fraternity, or any other organization, it is necessary to gaze into a very cloudy crystal ball. However, we may be able to look through some of the clear patches in the cloudy crystal ball by following the approach of the engineering designer. The solution of most engineering design problems requires three broad, somewhat overlapping, steps if an optimum design is to be obtained. The designer must first take a backward look to evaluate past experience and available data. Secondly, he must determine the current state of the art. Finally, he extrapolates the results of the first two steps to obtain a design that will provide for future growth and needs. While this may appear to be an oversimplification of a very complex problem, it does help to identify the three broad areas we should examine as we prepare our long range plans—the past, the present and the future.

THE GEAR OF THETA TAU

To examine the past, we must consider almost 200 years of operation of Greek letter organizations in the United States and, specifically, the 64-year history of Theta Tau. Although a detailed study of these histories would be desirable, at this time we will only make a few observations and generalizations. After reading the histories of a number of fraternities, one of the most important characteristics that stands out is the ability to adapt to a changing environment. As the size, student body composition, and goals of our educational institutions have changed, Greek letter organizations have also changed their purposes and methods of operations. For example, when Phi Beta Kappa was founded in 1776, it operated as a literary society with many of the features of today's fraternities while today Phi Beta Kappa is an honor society. Another example of the ability to adapt to a changing environment is given by Theta Tau, which operated for a number of years after its founding with chapters concentrated in the Midwest, while today Theta Tau has chapters through the country. At each Biennial Convention, Theta Tau adopts amendments to its Constitution that permit the various operating units to adapt to changing conditions. The recent installation of Lambda Beta Chapter of Theta Tau at Tennessee Technological University is still another example of this ability to adapt since Lambda Beta Chapter is the first chapter to progress through the complete cycle from a local professional engineering fraternity to a Colony of Theta Tau and finally to a Chapter of Theta Tau under the provisions of recently adopted changes to our Constitution.

The second characteristic of the past that is of particular interest is that of growth. Almost since its inception, the system of Greek letter organizations has been subjected to a variety of accusations and charges by school administrators, public officials, and the general public. Because the large majority of these attacks were based on either misunderstanding or lack of information concerning the goals and purposes of the organizations, the Greek letter system has not only withstood these attacks but has continued to grow. This growth may be attributed to the fact that these organizations have not only enriched the educational experience of their members but have also proven to be an asset to the institutions where they maintain chapters. In his book, *The College Fraternity and Its Modern Role*, John Robison gives a few interesting examples of this growth. Mr. Robison describes the establishment of fraternities and sororities at Texas Christian University in Fort Worth, Texas where for 75 years after its founding TCU had prohibited fraternal organizations. About 10 years ago, the faculty and administration of TCU conducted a survey of other colleges and universities in an attempt to find a remedy for the lack of student spirit on their campus. Three of the questions asked in this survey were: (1) What has been your experience with fraternities?; (2) If you had a free choice would you want fraternities on your campus?; and, (3) What values have you found existent in fraternities on your campus? The responses to the first two questions were so overwhelmingly in favor of the fraternity system, that TCU reversed its 75 year policy and permitted

eight fraternities and 10 sororities to establish chapters on the campus. A few years later, in 1965, when the TCU administration was convinced of the value of these organizations on their own campus, TCU gave its Greek letter groups a \$4,500,000 fraternity-sorority village to provide housing for its 18 organizations. Another interesting example cited by Mr. Robison in his book concerns a questionnaire that was sent to several hundred fraternity alumni by the National Interfraternity Conference. One of the questions on this questionnaire was, "If you had a son about to enter college, would you advise him to join a fraternity?" Ninety percent of those who responded said, "yes", and another 6 percent said that they would leave it up to their sons. This brief examination of the past leads to the conclusion that the ability to adapt to a changing environment has resulted in continued growth of a group of organizations that provide benefits to both the individual members and their institutions.

A quick glance at the present "state of the art" may be alarming. Headlines proclaim the news of the disruption of the educational process on campuses all across our nation as well as in Paris, Mexico City, and other lands. It seems that forces are at work that will destroy not only fraternities and universities but also the very foundations of our nations. Although this quick glance at the present may be alarming, or even frightening, a longer, more critical, look at the present will provide a basis for a more optimistic outlook. Eric Hoffer, the migrant farm hand who has become one of our modern day philosophers, describes an incident in his book *The Ordeal of Change* that is worth considering. One year he worked as a farm hand in the Imperial Valley of California. He began in January picking peas in Southern California. As the crops matured he gradually moved northward continuing to pick nothing but peas. Finally, in June, he reached the northern limit of this fertile California valley and there were no more peas to be picked. He had to move to Lake County in California where the string bean crop was beginning to mature. He describes his feelings of insecurity and fear as the day came for him to pick his first string bean. He wasn't at all sure that he could make the transition from picking peas to picking string beans. If making the change from pea picking to bean picking can be a traumatic experience, it is much easier to understand why some of the changes facing us today are viewed with alarm. Perhaps some of the problems of the past don't seem significant today because we already know that our predecessors found solutions to their problems while we consider our present problems more complex because we don't see the solutions. However, some optimism is justified because some of the factors creating our current problems will be the very same factors that will lead to the solutions of these problems. In comparison with the past, on our campuses today we have students with much greater academic potential—students with considerably more factual knowledge—students who have an awareness of their rights and power—students with wider social experiences—students who are more critical of the performance of the faculty and administration—students who see their goals more clearly. These char-

acteristics of today's student bodies are the source of at least some of the problems facing our faculties, administrations, and fraternities. However, these very same characteristics should help provide the solutions to more problems than they create. These are some of the characteristics of our membership that should help Theta Tau adapt to the change from pea picking to bean picking.

Another feature of the present state of the art that provides a basis for optimism is the awareness on the part of many fraternity leaders that we must be prepared for continual change. There is considerable evidence of this awareness. The 1966 meeting of the National Interfraternity Conference was devoted to the topic "Opportunities for Fraternities in the Changing Educational World" while the theme of the 1967 meeting was a continuation of this topic titled "Making the Most of These Opportunities". The theme of the 1967 biennial convention of the Professional Panhellenic Association was "The Professional Woman in a Changing World". This evidence of the awareness of fraternity leaders of the necessity to prepare for change is encouraging.

An important management principle states that leaders have the responsibility of planning beyond their tenure. The application of this principle requires chapter officers to plan for the future of their chapter and for our present Executive Council to plan for the future of Theta Tau. The application of this principle as demonstrated by the awareness of fraternity leaders of the need to plan for change today in order to meet the needs of tomorrow, provides a basis for the belief that Greek letter organizations have a bright future. Almost 2500 years ago, the Greek philosopher Heraclitus wrote, "There is nothing permanent except change." Perhaps this observation of Heraclitus can serve to summarize both the past and present and also serve as a guide for extrapolation into the future.

In planning for the future, we must provide leaders who recognize their responsibility to plan beyond their tenure. The burden of providing for the future of Theta Tau clearly rests on the shoulders of today's chapter officers and Executive Council. In this connection, the July 1968 issue of *Banta's Greek Exchange* contains an article entitled "Developing the Fraternity Leader" by Dr. Russell H. Ewing, president of the National Institute of Leadership. Dr. Ewing has identified 50 functions, duties and responsibilities of chapter leaders. For each of these 50 items he has indicated the corresponding personal traits or attributes, qualities, and characteristics which can be developed or cultivated in chapter offices to improve their performance. The significant fact is Dr. Ewing's statement that these desirable leadership traits can be developed and cultivated. Within recent years, Re-

gional Conferences and national conventions of Theta Tau have included an officer's workshop. This is a step in the direction of providing leadership training for our chapter officers—but only a first step. Because of the importance to our long range plans of today's leaders, we should invest the necessary resources to develop the full potential of our chapter officers. Instead of only a one or two hour session at Regional Conferences and Conventions devoted to the details of chapter operations, we should consider annual regional or national leadership training programs for our chapter officers. Since financing such an endeavor must be considered, it may be necessary to divert funds from other programs to provide this training.

In planning for the future of our Fraternity, it is necessary to consider the composition of the student bodies from which we will draw our membership and the needs of that membership. It has been estimated that by 1975 six million students will be enrolled in junior colleges in our country. These students will only be spending their last two years of undergraduate study on campuses where we now have chapters. Closely related to this change are the increases in the percentages of married students and graduate students on our campuses. Our chapter officers and Executive Council must recognize that changes may be required in professional, cultural, and social programs to satisfy the needs and interests of these groups. It may be necessary to provide activities that are of special interest and value to the increasing percentages of graduate students and married students. On the national level, it may also be desirable to investigate the desirability of establishing some type of associate or affiliate organization on junior college campuses.

In considering the needs of our membership, the fact that more than 90 percent of our membership are alumni is frequently overlooked. Professional fraternities in law, medicine, and dentistry long ago recognized this fact by providing professional programs, seminars, and short courses for their alumni. These programs not only provide a service to their alumni but also insure the continued interest, participation, and support of the alumni. Attention should be given to the desirability of providing similar services and programs for Theta Tau alumni.

This analysis does not provide a complete design of our long range plans. No quantitative predictions of the future or timetables for action have been established. However, this preliminary analysis may provide the basis for future planning. And awareness of the necessity for change and the willingness to develop leaders to plan and implement these changes, will provide for the continued growth of Theta Tau.

ERRATA

Robert A. Bishel, Ohio State '60, was incorrectly listed as deceased in the In Memoriam section of the Spring 1968 GEAR. His brother, John G. Bishel, Ohio State '60, is deceased (see page 21).

Grand Regent's Message

As we approach the time of another Biennial Convention, it is a convenient period to reflect on what we have accomplished, what we need to be doing, and plans for the future.

What we have accomplished cannot be fully evaluated at this time. So many programs and activities are of a continuing nature and thus what we do or fail to do will be reflected in future happenings. One very rewarding accomplishment is the installation of Lambda Beta Chapter at Tennessee Technological University, which is reported in detail in this issue of the GEAR.

The installation of this newest Chapter merely represents the culmination of a series of prior activities, even as we today are taking steps relating to extension which will pay off in the future.

The topic for chapter letters in this issue of the Fall GEAR is chapter housing. The importance of housing in our Fraternity cannot be over-emphasized. In the establishing and fostering of strong bonds of fraternal fellowship the value of proper



housing is of utmost importance. Alumni will have a continuing interest in their Fraternity through participation in ownership of chapter houses. This serves a double purpose in providing a worthwhile activity for the alumni as well as bringing them into closer contact with the active chapter.

We need to explore new approaches whereby more extensive help may be provided from the national level in encouraging proper housing.

The plans for the future are covered in the article appearing in this issue by Past Grand Regent, William K. Rey. This is a subject deserving attention from all members, so any ideas you may have will be welcomed by the Long Range Planning Committee and given careful consideration.

The formula for our past success has been the quality of adapting to the need of the times and recognizing the situation and doing something about it. We must continue on this same course, ever being alert to the accelerating developments requiring our attention.

C. RAMOND HANES

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NATIONAL ENGINEERS' WEEK

All Theta Tau alumni and chapters are urged to take part in National Engineers' Week, February 16-22, 1969. This annual event is sponsored by the National Society of Professional Engineers.

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Charles T. Schmidt, Omega '63
Richard H. Simon, Lambda '67



Alumni News

Theta Taus in Key Roles at Black & Veatch

Members of the University of Kansas chapter of Theta Tau hold many responsible positions at Black & Veatch, Consulting Engineers, including four of the five positions on the Executive Committee. Black & Veatch has its headquarters in Kansas City, Missouri. The firm was founded in 1915, and specializes in engineering connected with utility services, including water, sewerage, electric (both nuclear and fossil fuel), gas, telephone, and waste disposal. The firm also serves in such areas as streets and highways, dams, tunnels, storm drainage, flood control, community and regional planning, industrial installations, communications, and special facilities.

The practice of the firm extends to 41 states and the District of Columbia, and Black & Veatch International serves clients around the world. The firm has more than 700 employees, with about 425 of those being graduate engineers.

EDWARD A. FARMER, *Kansas '29*, is an executive partner. He joined Black & Veatch immediately after graduating in civil engineering. After early assignments in the field, he served as resident engineer during World War II for the construction of air bases at Greenville and Jackson, Mississippi, and at Hutchinson, Independence, and Coffeyville, Kansas.

After the war Brother Farmer was a principal engineer heading field studies, plans, reports, financial studies, and estimates for municipal, military, and private water and sewerage systems.

Brother Farmer is a member of AICE, ASCE, AWWA, NEWWA, WPCF, NSPE, and Tau Beta Pi. He is a registered professional engineer in 10 states and the District of Columbia.

RAY E. LAWRENCE, *Kansas '25*, also serves

as an executive partner. After graduation in civil engineering, he joined Black & Veatch, then was an engineer for the Kansas State Board of Health, and was acting chief engineer for one year. In 1933 he became an engineer examiner and later state director for Kansas for the Public Works Administration. Brother Lawrence rejoined Black & Veatch in 1937 as a principal engineer supervising water supply and sewerage projects.

During World War II he was first a civilian in the office of the Quartermaster General, then an officer in the Corps of Engineers. He served overseas during 1944 and 1945 in the European Theatre, reaching the rank of colonel. He was awarded the Legion of Merit.

Brother Lawrence returned to Black & Veatch in 1946 and has been responsible for projects for the Department of Defense, the Atomic Energy Commission, and several municipalities.

His technical society activities include president and honorary member of the Water Pollution Control Federation; past chairman of the Executive Committee, Sanitary Engineering Division, ASCE; trustee, American Sanitary Engineering Inter-Society Board; and subcommittee member for the National Research Council Advisory Committee on Medical Sciences. He is also a member of Sigma Tau, Tau Beta Pi, AICE, AWWA, NSPE, and SAME. Brother Lawrence is registered in seven states.

WILLIAM L. PATTERSON, *Kansas '27*, another executive partner, joined Black & Veatch in 1928. He began as a designer on structural, hydraulic, and sanitary engineering projects. During World War II he became chief designing engineer for the



Edward A. Farmer



Ray E. Lawrence



William L. Patterson



Riley D. Woodson

Camp Robinson Cantonment at Little Rock, Arkansas, and later chief engineer for the Armored Division Cantonment at Camp Chaffee, Arkansas.

From 1943 to 1949, Brother Patterson headed the Civil Engineering Division of Black & Veatch. After 1949 he served as principal engineer on utility valuation, rates, feasibility, and other economic studies and reports. He now heads the Economic and Financial Division of the firm.

Brother Patterson is a past president of the Kansas City Section of ASCE, and is a member of AICE, NSPE, CEC, AWWA, WPCF, ACA, and Tau Beta Pi. He is a registered engineer in 21 states.

RILEY D. WOODSON, *Kansas '35*, completes the roster of Theta Taus on the executive committee of Black & Veatch. He joined the firm immediately after his graduation in mechanical engineering. Brother Woodson's experience has been principally in the Electric Power Division, including field surveys, feasibility studies and reports, designs, specifications, supervision of construction, tests, valuations, rates, financial studies, electrical system studies, purchasing, expert testimony, and arbitration.

During World War II he was in charge of design and supervision of naval air fields near Hutchinson, Kansas.

Later he was head of the Electric Power Division, where he supervised electric power generating station design. He has also been in charge of the firm's activities in connection with the application of nuclear energy to electric power production.

Brother Woodson is a Fellow of ASME, and is a member of AICE, IEEE, ANS, AWWA, NSPE, Sigma Tau, and Tau Beta

Pi. He has served on committees for ASME and AWWA. He is a registered professional engineer in seven states and with the National Bureau of Engineering Registration.

WALDO G. BOWMAN, *Kansas '23*, has recently joined Black & Veatch as manager of the firm's activities in the Mid-Atlantic states, with offices in New York City. Brother Bowman has had a distinguished career in engineering journalism, serving as chief editor and publisher of *Engineering News-Record* until his retirement recently. (See the Spring 1964 *GEAR*.) He has served as president of the ASCE, and has made many world trips gathering information for his engineering articles. During World War II he was a war correspondent for *Engineering News-Record* in Europe, Africa, and the Middle East. As well as ASCE, he is a member of ACl, ASTM, Tau Beta Pi, and Chi Epsilon. He is a registered professional engineer in New York.

ROBERT A. RUSSELL, *Kansas '37*, is a partner and head of the Control Department. Following his graduation in mechanical engineering, he worked briefly for General Electric at Schenectady, New York. In 1938 he joined Black & Veatch, and has been with the firm since that time.

During World War II Brother Russell served with the U.S. Navy as a lieutenant senior grade at San Francisco and at Mare Island.

Returning to Black & Veatch after the war, he worked as assistant engineer and principal assistant engineer on design projects for numerous utilities. Since 1957 he has directed control engineering activities in the firm's Power Division. He has had assignments in conceptual design, feasibility



Waldo G. Bowman



Robert A. Russell



Robert S. Patterson



R. D. McKim

analysis, and logic analysis of nuclear plant instrumentation and controls.

Brother Russell is a member of ASME, the Power Test Code Committee on Steam Turbine Testing, Instrument Society of America, NSPE, and American Nuclear Society. He was in charge of a 1959 Symposium of the Power Division for ISA and has served as secretary of the Kansas City Section. He is a registered professional engineer in Missouri and Kansas.

ROBERT S. PATTERSON, Kansas '27, is head of specifications and estimates for the Special Projects Division of Black & Veatch. He joined the firm in 1928 and worked as designer and assistant office engineer on projects for municipal utilities.

From 1941 to 1944, he was in charge of appraisal of all structural properties of the Houston Lighting and Power Company, the Dallas Power & Light Company, and the Nebraska Power Company. Since 1946 he has held his present position, where he has worked on projects for the Department of Defense, the Atomic Energy Commission, NASA, and private industry.

Brother Patterson is a certified fallout shelter analyst under the Department of Defense, and he co-directed the fallout shelter survey of half of Kansas City, Missouri and analysis of properties for American Telephone and Telegraph Company in nine states and for Southwestern Bell Telephone Company in Missouri. He is also certified by the Department of Defense for design of protective construction.

He is a member of ASCE, NSPE, CSI, Sigma Tau, and Engineers Club of Kansas City, which he has served as president. He received the Second Place Award in 1966

from CSI for excellence in industrial specifications. Brother Patterson is registered in Missouri and Kansas.

R. D. MCKIM, Kansas '35, is a principal engineer for Black & Veatch in the Civil-Sanitary Division. He joined the firm in 1935 and has been with the firm continuously except for World War II.

During the war Brother McKim served with the U.S. Army, Corps of Engineers, in Europe and the Pacific. He was separated from the service with the rank of colonel. He is a graduate of the Command and General Staff School at Fort Leavenworth, Kansas.

Brother McKim has served Black & Veatch as a resident engineer on water supply, sewerage, and dam construction. He was chief project engineer for a special division set up to prepare plans and specifications for a multimillion dollar U.S. Army Air Force construction contract. As principal engineer he has been responsible for field studies, investigations, reports, basic and detailed planning, and construction supervision of water supply and treatment, sewerage and sewage treatment projects in Arkansas, Kansas, Michigan, Missouri, and Oklahoma.

He is a member of ASCE, AWWA, AASE, WPCF, MW&SC, KWPCA, Tau Beta Pi, and Sigma Tau. Brother McKim is listed in *Who's Who in Engineering* and *Who's Who in the Midwest*. He is a registered professional engineer in five states.

In addition to the Kansas Theta Taus at Black & Veatch, at least two members of other chapters are employed there.

ROBERT E. VANSANT, Missouri at Rolla '51, is specification writer for the Civil-



Vansant



King

Sanitary Division of Black & Veatch. Immediately after graduation he served with the U.S. Army as an officer in an Engineer Construction Battalion. He joined the firm in 1953 and worked on civil engineering projects.


Since 1958 Brother Vansant has been in charge of specifications for civil engineering projects. He is also materials and specifications consultant to the building engineer of the western area of the Ameri-

can Telephone and Telegraph Company.

Brother Vansant is a member of ASCE, ASTM, AWWA, CSI, SAME, NSPE, and Missouri Society of Engineers. MSPE gave him the Young Engineer of the Year award. He is also a member of the Mid-West Concrete Industry Board, Tau Beta Pi, Chi Epsilon, Phi Kappa Phi, and Blue Key. He is a registered engineer in Missouri.

JAMES W. KING, Arkansas '54, is a member of the Control Department of Black & Veatch. Following graduation in mechanical engineering, he was first employed by the Bailey Meter Company, becoming a specialist in digital equipment sales. In 1957-1958 he took a leave of absence to serve with the U.S. Army in the testing of NIKE missiles at White Sands Proving Grounds, New Mexico.

Brother King joined Black & Veatch in 1961. He has been responsible for the design and layout of analog systems, digital systems, and safety interlock systems for a number of power plant projects.

He is a member of the Instrument Society of America. 

Lambelet in India for the United Nations

LAWRENCE E. LAMBELET, Missouri at Rolla '40, is serving as project manager of a United Nations assistance program with the Survey of India, the national topographic mapping agency for the country. The program is helping to modernize and upgrade the training of surveyors and to establish a pilot model mapping centre in Hyderabad.

In writing about his project, Brother Lambelet said, "The main campus for our Institute is a 100 acre site now under development, which includes modern buildings to house the Training Centre, hostels for students, and buildings for a modern map production plant. Additional land, about 120 acres, is still to be developed for housing staff and workers for the Institute. We are providing modern photogrammetric map compilation equipment, a complete map reproduction plant, and instituting modern techniques in surveying and cartog-

raphy. When completed this will be the most modern mapping centre in South Asia (and only one of its kind).

"There are over 1,000 Indian counterpart personnel involved in the project. . . .

". . . Here in India, with the country in the throes of a vast and complex development process, the need for such basic data information is magnified many times, perhaps, over that which the engineer would normally experience in the western countries. It is the purpose of this project to provide the indigenous capability for meeting these needs within this country.

"On the personal side, I must say that it is a challenging and difficult task. Anyone who has spent some time in a developing country will readily appreciate that the technical side is not the difficult part of the job. . . . But, nevertheless, it is rewarding, and our life in India has been pleasant."



Brother Lambelet worked for Halliburton Oil Well Service Company immediately after his graduation. From 1942 to 1963, he was employed by the U.S. Geological Survey in positions of increasing responsibility, finally becoming chief of the Planning Coordination Section at the Washington, D.C. headquarters. From 1944 to 1946 he served with the U.S. Navy as a photographic interpretation officer in the Pacific.

From 1963 to 1965 he was employed by the U.S. Army Corps of Engineers in Washington, D.C. as cartographer-technical adviser on the staff of the Chief of Engineers. In 1965 Brother Lambelet took a leave of absence to go to India.

Brother Lambelet's wife and younger son live with him in India. Two daughters and another son are living in the United States.

Walter Wheeler Still Going Strong

WALTER H. WHEELER, *Minnesota '06*, has had a long and successful career as a consulting engineer. His firm is the Walter H. Wheeler Company of Minneapolis. His designs have been built in the 50 states, Canada, Mexico, and the Caribbean.

Brother Wheeler is perhaps best known as the inventor of the "Smooth Ceilings" system of reinforced concrete flat slab construction. This method has been used in such buildings as the U.S. Appraisers Stores Building in Baltimore, the May Company Building in Denver, an earthquake resistant junior high school in Butte, Mont., and many more. Brother Wheeler also has been active in the design of grain elevators, bridges, dams, and industrial plants.

Brother Wheeler is a registered professional engineer in 13 states. He is a Fellow of the American Society of Civil Engineers, and is a member of NSPE, ESA, ASME, AIME, MSPE, MAIA, and Alpha Delta Phi. He has been active in the American Concrete Institute. In 1954 he received the out-

standing achievement award and gold medal from the University of Minnesota.



Sommermeier is Vice President of United

L. E. "Gus" SOMMERMEIER, *Minnesota '30*, is senior vice president for flight operations of United Air Lines, Inc., the free world's largest airline. He has held that position since 1966.

Brother Sommermeier began his career in aviation in 1931 when he was designated a naval aviator at Pensacola, followed by a one year tour of fleet duty. In 1933 he was employed by United Air Lines as a copilot. He was promoted to captain with the airline in 1934.

In 1942 Brother Sommermeier volunteered for active duty with the Navy, and he served in the United States and the European and Asiatic Theatres. He left active duty as a commander and was later designated captain USNR.

He became an assistant flight manager for United Air Lines at Chicago in 1947, general manager of flight operations in 1951, vice president for flying in 1958, and took his present position in 1966. Brother Sommermeier has flown all the jet aircraft types used by United, and many of the military types.

He is a member of the AIAA, a past president of the Operations Conference of the Air Transport Association, and a delegate



to the International Air Transport Association Technical Committee. He has presented numerous technical papers, including one on "Artificial Dispersal of Cold Fog" at the Royal Aeronautical Society of London's Centennial Conference.

Brother Sommermeier is headquartered in Chicago. He and his wife have two married sons.

Long Career in Petroleum for Suman

JOHN R. SUMAN, *California (Berkeley) '12*, petroleum consultant and retired vice president of Standard Oil Company of New Jersey, has had a distinguished career in the petroleum industry. Following his graduation, he worked for the Yellow Aster Mining & Milling Company, the Roxana Petroleum Corporation, and the Río Bravo Oil Company. He advanced to become vice president and general manager of Río Bravo in 1925.

From 1927 to 1933, he was a director of Humble Oil & Refining Company, and in

1933 he was named vice president in charge of production. In 1945 Brother Suman became a vice president and director of Standard Oil Company of New Jersey. He was also a director of Arabian American Oil Company, Middle East Pipelines, Ltd., and Near East Development Corporation.

In 1955 Brother Suman retired to become a consultant in Houston, Texas.

Brother Suman is the author of *Petroleum Production Methods*, a standard reference book. He is a past president of the American Institute of Mining, Metallurgical and

Petroleum Engineers, a past president of the Houston Geological Society, and a past president of the Twenty-Five Year Club of the Petroleum Industry. His memberships include the American Association of Petroleum Geologists, the American Petroleum Institute, the American Standards Association, and many other professional, civic, and social organizations. He is a member of Delta Upsilon and Tau Beta Pi.

Some of the awards he has received include an honorary doctor of engineering

degree from the South Dakota School of Mines; the Anthony F. Lucas Medal of the AIME; the John Fritz Medal of the ASCE, the AIME, and the AIEE; the French Legion of Honor Medal; the Howard Conoley Medal of the American Standards Association; the Distinguished Service Award of the Texas Mid-Continent Oil & Gas Association; and the DeGolyer Distinguished Service Award of AIME.

Brother Suman and his wife have two sons.

General Price Retires, Receives Medal

BRIG. GEN. ORAN O. PRICE, *Michigan Tech '35*, has retired from the Air Force after 32 years of service. He was awarded the Distinguished Service Medal for consistently exhibiting the highest degree of professionalism and integrity in directing numerous programs to insure effective logistics support of the nation's combat forces and fulfillment of worldwide commitments.

Brother Price entered active duty in 1940 and served in Iceland, England, France, Luxembourg, and Belgium during World War II. From 1949 to 1952 he was deputy director of installations for the Far East Air Forces in Japan. He then went to Headquarters, U.S. Air Force, in Washington, D.C. in the Office of the Assistant Chief of Staff, Installations. His next assignment was at the Air Defense Command at Colorado Springs.

In 1959 he became deputy chief of staff, civil engineer, Air Training Command at Randolph AFB, Texas, and the next year he went to Germany as deputy chief of staff, civil engineering, for U.S. Air Force, Europe.

Brother Price next had assignments in Washington, becoming deputy director for construction in the Office of the Deputy Chief of Staff, Programs and Resources at Headquarters, U.S. Air Force, in 1965. In August 1965 he became deputy chief of



Brig. Gen. O. O. Price (right) was decorated with the Distinguished Service Medal by General Jack G. Merrell.

staff for civil engineering at Headquarters, Air Force Logistics Command at Wright-Patterson AFB, Ohio, the position he held at retirement.

He has been awarded the Legion of Merit with Oak Leaf Cluster, Bronze Star Medal, Air Force Commendation Medal, and Army Commendation Medal. He is a registered engineer in Colorado and a member of NSPE and the SAME.

Brother Price and his wife have two sons and a daughter.

George Eagle Featured in Public Works

GEORGE H. EAGLE, *Ohio State '26*, chief of the Bureau of Environmental Health of the Ohio Department of Health and chief engineer of the Department and Division of Engineering, was pictured on the cover of the March 1968 issue of *Public Works*. Brother Eagle has been with the Ohio Department of Health almost continuously since his graduation from Ohio State. In the 1930's he was assigned to the City of Columbus, Ohio on design of new sewage treatment works, and for three and one-half years during World War II he served with the U.S. Army in Brazil as a field engineer and later as chief engineer for the Inter-American Affairs sanitary engineering program.

Brother Eagle became chief of the Division of Engineering in 1961, and was appointed Bureau chief in 1964. His Bureau includes the Division of Engineering, Sanitation and Occupational Health. His staff includes more than 100 professional and technical personnel.

Brother Eagle has a master's degree in public health from the University of Michigan. He is a past chairman of the Water Resources Committee of the American Public Health Association, past chairman of the



Engineering Committee of ORSANCO, past chairman of the Great Lakes-Upper Mississippi Board of State Sanitary Engineers, and a member of numerous other professional organizations.

Basketball a Life Career for Bunn

JOHN W. BUNN, *Kansas '21*, has devoted his life to athletics. At the University of Kansas he won 10 varsity letters in football, basketball, and baseball, a record that still stands at the university.

After graduation he was an instructor at Kansas, where he worked under "Phog" Allen and Dr. James Naismith, the inventor of basketball. In 1930, he went to Stanford as professor of physical education and head basketball coach, and he had several championship teams. In 1938 he became dean of men at Stanford.

Brother Bunn later was director of athletics at Springfield College, Springfield, Massachusetts, for 10 years. In 1956 he became basketball coach at Colorado State College, where he remained until his retirement in 1963.

He is permanent chairman of the National Association of Basketball Coaches Hall of Fame Committee, editor and national interpreter of national basketball rules, a past president and secretary-treasurer of the National Association of Basketball Coaches, and a past member of

the NCAA basketball tournament selection committee. He is now executive director of the Basketball Federation of the United States and investigator for the Infractions Committee of the NCAA.

Brother Bunn is the author of *Scientific Principles of Coaching*, *The Art of Officiating Sports*, *The Basketball Coach: Guides to Success*, and *Basketball Techniques and Team Play*.

He has traveled in Europe, Australia, the Far East, and all the United States conducting programs on basketball and its rules. Since his retirement, Brother Bunn and his wife have lived in Glenwood Springs, Colorado.



Feierabend Heads Mining Engineers

RAYMOND H. FEIERABEND, *Columbia '42*, 1968 president of Society of Mining Engineers, was pictured on the March 1968 cover of *Mining Engineering*. He is vice president of Freeport Sulphur Company,

and was responsible for the development of the world's first offshore sulfur mine at Grand Isle, Louisiana.

Brother Feierabend joined Freeport Sulphur Co. immediately after his graduation, and began work in Texas. He advanced through numerous positions, including general superintendent of the Grand Eclaire mine in Louisiana, before becoming a vice president in 1957.

After he developed the now-famous offshore sulfur mine, Brother Feierabend assumed broad responsibilities for production, engineering and sulfur exploration. From 1963 to 1967, he was headquartered in New York City, then returned to Louisiana to oversee the company's new phosphate chemical project as well as its mine being opened in Florida jointly with Armour Agricultural Chemical Co.

In addition to his activities for SME, Brother Feierabend has served as a vice president of AIME. He is a member of the Mining Club of New York, the Mining and Metallurgical Society of America, and civic groups. Scouting, camping, fishing, etc. are among his interests.

Brother Feierabend lives in Baton Rouge, Louisiana, and he and his wife have a daughter and three sons.



Cudworth Helps Develop Artificial Arm

DR. ALLEN L. CUDWORTH, *Alabama '49*, assistant vice president and director of the Research Center of Liberty Mutual Insurance Companies, has been in the news recently as one of the developers of an electronically operated artificial limb. The device, called the "Boston arm," operates by picking up minute electrical impulses that are generated in the muscles of the arm.

In its early stages the project was begun by students at Massachusetts Institute of Technology. The Liberty Mutual Research Center and Rehabilitation Center began developing the project two years ago. Plans call for additional field testing.

Brother Cudworth was a research associate in the Acoustics Laboratory of MIT after his graduation from the University of Alabama. He earned his master of science degree from MIT in 1952 and his doctor of science from Harvard University in 1967.

In 1955 he joined the Liberty Mutual Loss Prevention Department staff as an acoustical engineer. He was appointed director of research and development in 1962. Brother Cudworth's responsibilities include research in industrial accident prevention, environmental health, automotive safety, industrial noise, rehabilitation, and industrial hygiene.

He is the author of numerous magazine

and journal articles on noise measurement and control, and has appeared on national television in discussions of automobile safety. He is a member of the Acoustical Society of America and the American Industrial Hygiene Association.



Dr. Allen L. Cudworth (right) was a developer of a new limb called the "Boston Arm."

Brother Cudworth is also a lecturer in environmental health engineering at Harvard School of Public Health, and on noise control at Colby College.

He, his wife, and three children live in Needham, Massachusetts.

Dean Branigan is President of Two Societies

GEORGE F. BRANIGAN, *Arkansas Hon. '27*, dean of the College of Engineering at the University of Arkansas, is currently serving as president of two national organizations. In August he was installed as president of the National Council of Engineering Examiners, and he is 1966-68 president of Theta Xi Fraternity.

Following his graduation from the University of Nebraska, Brother Branigan worked briefly for Cities Service Company, then joined the faculty at Kansas State Uni-

versity. In 1942 he left Kansas State to become dean of engineering and professor of civil engineering at Bradley University.

In 1964 he went to Iowa State University, where he was professor of mechanical engineering. Brother Branigan became dean at the University of Arkansas in 1948.

In addition to his work for the NCEE and Theta Xi, Brother Branigan has been active in the National Society of Professional Engineers, the Arkansas Society of Professional Engineers, the American So-

THE GEAR OF THETA TAU



Dean George F. Branigan (right) was congratulated on becoming president of the National Council of Engineering Examiners by Dr. E. E. Whitehead, immediate past president.

ciety for Engineering Education, and the Engineers' Council for Professional Development. He is a Fellow in the American Society of Civil Engineers, and is listed in *Who's Who in America*, *Who's Who in Engineering*, *Who's Who in the Southwest*, and *American Men of Science*. He is a member of Tau Beta Pi.

Brother Branigan is the author of numerous articles and contributed the chapter on Civil Engineering to the new edition of *Encyclopedia Americana*.

His two sons, GEORGE E. BRANIGAN, Arkansas '53, and THOMAS L. BRANIGAN, Arkansas '56, are members of Theta Tau, and his daughter, Mrs. Snowden Armstrong, is the wife of a Theta Tau. Brother Branigan has six grandchildren.



General Curtis E. LeMay, Ohio State '29, has been in the news again as the vice presidential candidate on the American Independent Party ticket, which polled 45 electoral votes. Brother LeMay is a retired chief of staff of the Air Force. He was commander of the Strategic Air Command for 10 years and organized the Berlin Airlift. (See the Spring 1965 GEAR.)

25 Years Ago

Because of World War II, the Erich J. Schrader Award contest was suspended, and no Convention was held. The Executive Council decided to continue publication of *THE GEAR* for at least a year, however.

Alpha Chapter was taking in roomers to keep the chapter house open.

Theta Chapter was making plans to have its chapter meetings in the afternoon so that the Navy V-12 members could attend.

Members of Mu Chapter had a novel outing on a houseboat trip up the Warrior River.

Omicron Chapter was sharing a house with Sigma Nu fraternity.

Phi Chapter was sharing its house with Sigma Alpha Epsilon and Phi Gamma Delta fraternities.

A charter was awarded to the Northwest Alumni Association.

(From the Fall 1943 GEAR)

(No GEAR was published in 1918, 50 years ago.)

In Memoriam

JOHN G. BISHEL, *Ohio State '60*, died February 3, 1968. He was a teaching and research assistant in the Department of Mechanical Engineering Teaching and Research Association at Ohio State University, and was working toward his Ph.D. in mechanical engineering. Brother Bishel was a member of Pi Tau Sigma, Tau Beta Pi, Sigma Xi, American Society of Engineering Educators, and Phi Eta Sigma. He was honorably discharged from the Naval Reserve. Brother Bishel is survived by his wife, a daughter, a son, his parents, a brother, ROBERT A. BISHEL, *Ohio State '60*, and a sister.

HUGO JOHN BRICKNER, *Missouri at Rolla '28*, died January 17, 1968.

HOMER JOHN BUDDEMAYER, *Ohio State '48*, died November 17, 1967 in Kettering, Ohio. He was an industrial engineer for the Dayton Power and Light Co. of Dayton. During World War II he was a lieutenant in the U.S. Army. He served as Regent of Sigma Chapter while at Ohio State. Brother Buddemeyer was a member of the Retired Army Officers, the Dayton Society of Professional Engineers, the American Society of Heating and Ventilating Engineers, the Ohio Society of Mechanical Engineers, and the BPOE Lodge of Wapakoneta. He is survived by his wife, a son, a daughter, his parents, a brother, and a sister.

ARNOLD S. BUNTE, *Colorado Mines '26*, died July 14, 1968 in Roswell, N.M. He was a retired petroleum geologist and expert on the Roswell Artesian Water Basin. Brother Bunte was employed by Shell Oil Co. for 20 years and by Vickers Petroleum Co. for 10 years. He taught at Colorado School of Mines for two years. After his retirement he moved to Roswell, where he was an instructor in geology at New Mexico Military Institute. Brother Bunte was a member of St. Peter Catholic Church and in 1966 he received the Kiwanis International Distinguished Service Award for outstanding lay leadership at the church. He was also a member of Knights of Columbus; the AAPG; Rocky Mountain Association of Geologists; West Texas, Kansas, New Mexico, and Roswell Geological Societies; the Permian Basin Petroleum Pioneers; Tau Beta Pi; and Sigma Alpha Epsilon. He was registered in several states, and was serving on the Board of the Pecos Valley Artesian Conservation District at the time of his death. Brother Bunte is survived by his wife, three daughters, a brother, and eight grandchildren.

ROY J. COERS, JR., *Purdue '42*, died July 12, 1968 in Indianapolis, Indiana. He was senior project engineer for Allison Division of General Motor Corp. Brother Coers is survived by his wife, two sons, two daughters, and his parents.

RALPH COUNTRYMAN, *California (Berkeley) '12*, died March 9, 1968 in Long Beach, Calif. He was charter member number one of Epsilon Chapter.

EDWIN C. DEAN, *Arkansas '33*, died July 4, 1967 in Russelville, Ark. He owned the Russelville

Plumbing & Heating Co. Brother Dean is survived by his wife.

CLARENCE (PETE) DIEMER, *Case '15*, retired president of Champion Rivet Co., died January 14, 1968. He had retired in 1961. Brother Diemer was active in class affairs at Case and served as class agent and on the Reunion Committee for many years.

WILLIAM RIFLEY DORR, *Minnesota '14*, died August 27, 1968 in Santa Barbara, Calif. Brother Dorr had a lifelong interest in music, and wrote the song "To Theta Tau." He played the organ and directed boychoirs, and was a representative for the Hall Organ Co. and the Aeolian Co. During World War I Brother Dorr was in the Navy. He was for many years director of the St. Luke's Chorists in Long Beach, and this boychoir sang in the movies with Bing Crosby and others, and recorded with Capitol Records. In 1942 Brother Dorr received his bachelor of music degree from the University of Southern California.

JEAN RUSSELL DRIGGS, SR., *Utah '16*, died June 25, 1968 in Salt Lake City. He was a retired civil engineer for the Utah Department of Highways. In 1917 he served with the National Guard on the Mexican Border. Brother Driggs worked for the Salt Lake City Board of Education supervising the construction and remodeling of several schools. He was active in mining and rare metals research, and was employed by Combined Metals Reduction Co., Consolidated Copper Co., and the Golden Ensign Mining Co. He worked for the State Road Commission until his retirement in 1963. Brother Driggs was a member of the Utah Council of Land Surveyors and was a high priest in the Harvard Ward, Liberty LDS Stake. He is survived by his wife, a son, three daughters, 19 grandchildren, and eight great-grandchildren.

BRUCE G. EATON, JR., *Illinois '30*, died December 30, 1967 in Baltimore, Md. He was a consulting engineer at Westinghouse Electric Corp.'s Space and Defense Center in Baltimore, and had been senior advisory engineer of the firm's Air Arm Division. Brother Eaton is survived by his wife, one daughter, three sons, and one brother.

HOWARD H. FIELDN, *Minnesota '13*, died January 9, 1967 in Nogales, Ariz.

CHARLES F. FISKE, *MIT '14*, died August 9, 1968 in Bath, Maine. He was a retired executive vice president of General Motors Acceptance Corp. After graduation from MIT, Brother Fiske was employed by the Kidder Peabody Co. in Boston. During World War I he served as a lieutenant in the Ordnance Department of the U.S. Army. In 1920 he became resident manager of financial sales for GMAC in New York, and he advanced to become executive vice president in 1954. In 1955 he was named vice president and director of GMAC of Canada Ltd., GMAC Continental, and GMAC South America. In 1956 he was appointed vice president and director of GMAC Australia. Brother

THE GEAR OF THETA TAU

Fiske was a member of Delta Tau Delta, and several social clubs. He is survived by his wife, a son, two daughters, two brothers, seven grandchildren, and one great-grandchild.

HARRY M. FISKE, *Colorado Mines '21*, died March 8, 1968 in Los Angeles. He was a longtime representative on the West Coast for Ingersoll-Rand.

FRANCIS H. FREDERICK, *California (Berkeley) '30*, died May 2, 1968 in Berkeley.

FELIX D. GENSLER, *George Washington, '47*, died February 29, 1968. He is survived by his wife in Harrisburg, Pa.

JUNUS EDWARD GLICK, *Virginia '25*, died January 24, 1968 at Scotia, N.Y.

RALPH GOETZENBERGER, *Minnesota '14*, died May 20, 1968. A brief biography was published in the In Memoriam section of the Fall 1968 issue of THE GEAR. This appreciation, by one who worked closely with him in his last years, will not elaborate on the biography but will emphasize his concern for and service to his fellow engineers.

Someone has said: "Tell me what a man reads and I will tell you what he is." By this test I confirmed what I had already observed from years of association with Brother Goetzenberger in professional societies. The progress of every engineer following graduation may be measured by two streams of effort: what he does for himself and what he does for his fellow men. In early professional years the young engineer should think primarily of himself and family; later he should go "the second mile" to serve his fellow men. Ralph Goetzenberger was an outstanding example of one who, when his own success was assured, devoted much of his energies to his fellow engineers. In so doing he followed the precepts of our Ritual and teachings and thereby increased the stature of Theta Tau.

Three brief quotations bear out his attitude on the two streams of an engineer's effort. In the opening statement of one of his talks on education for engineers he said: "Success comes to the engineer who regards himself as a student throughout his life span and seriously undertakes self-improvement." In a letter to *Mechanical Engineering* he stated that: "Motivation of the individual, regardless of age, is the greatest force opposing technological obsolescence." In a talk entitled "Technology in a Troubled World," he said: "Intelligent participation by citizens in the affairs of government remains today—more than ever before—a basic requirement for the survival of democracy in this troubled world. To this task engineers can perhaps contribute more than any other group because of the importance of their profession in a technological era." Ralph Goetzenberger practiced what he taught. He kept up to date on technology, not just that of his special field of competence, instrumentation and automatic control, but engineering in general. His files contained papers by outstanding engineers and scientists, including many devoted to interdisciplinary problems such as ethics and unity in the engineering profession.

What was it that motivated him to devote so much

of his life to the professional development and the social responsibilities of engineers? No one can speak with authority on the inner drive that motivates people but his writings reveal that he had the vision to see that as engineering makes the world more complex engineers must accept social responsibility for their technology. Ralph Goetzenberger accomplished much because he had the personality and temperament for cooperation. He got along well with people. His firm handshake and cheery greeting immediately made friends.

During the three years prior to retirement from Minneapolis-Honeywell, he served as the firm's educational consultant studying the problems of the young professional engineer and engineers in management, and the use of engineering technicians and engineering aides to make more effective use of professional engineers. Retirement did not appreciably reduce his activity. He continued to study proposed legislation of concern to engineers and scientists. Perhaps his greatest single contribution was to international goodwill among engineers when he went to Japan in 1960 at the invitation of the Japan Productivity Center. As a qualified instrumentation specialist he held a series of seminars on instrumentation and automation. The quality of his presentations and his empathy with the Japanese are best expressed in a note in broken English from an admirer. It says in part: "I am very sorry I cannot speak English . . . I am deeply moved by touch your noble character. I have no words to express my gratitude . . ."

Surely Ralph Goetzenberger was a statesman among engineers and an honor to Theta Tau. (WILLIAM J. ELLENBERGER, *Gamma Beta '30*.)

GORDON I. GOULD, *California (Berkeley) '31*, died July 16, 1968 in San Francisco, Calif.

ELBERT C. GRIGGS, *Case '20*, died December 12, 1967. He was retired U.S. sales manager for Norton-Tivdale Ltd., Chicago, Ill.

JOHN F. (PAT) GROESLE, *Case '17*, died March 12, 1968 in Daile City, Fla. He is survived by his wife, five children, and several grandchildren.

T. GENTON HAM, *California (Berkeley) '36*, died May 29, 1968 in Santa Cruz, Calif.

NEAL F. HARMON, *Arkansas Hon. '31*, died March 21, 1968 in Fayetteville, Ark. He is survived by his wife.

HAROLD R. HILKEY, *Kansas '27*, died August 20, 1968 in Lombard, Ill. He retired last year after 40 years as an electrical engineer for General Electric Co. Brother Hilkey is survived by his wife and two sisters.

DR. FRANK S. HUDSON, *California (Berkeley), '13*, a charter member of Epsilon Chapter, died November 28, 1967. He was a well known geologist. Following his graduation in mining engineering, Brother Hudson worked for the S.P. Company and the Geological Survey. He then spent two years in China with a group for the Standard Oil Co. of New Jersey. In 1919 he received his Ph.D. in geology from the University of California. Brother

Hudson then worked as a geologist for the Vertura Oil Co. and Shell Oil Co. He was chief geologist for the Western United States for Shell in Los Angeles until 1942. In that year he moved to San Francisco, where he was employed by the Yuba Consolidated Gold Fields and the Yuba Manufacturing Co. He was then a consultant to the Capital Company. Brother Hudson was a consultant for the State of California in the problem of the subsidence of the City of Long Beach. He was especially interested in the deformation of the Sierra Nevada Mountains and made many trips there. Brother Hudson was the author of many technical papers throughout his career. He is survived by his wife and a daughter.

ALBERT LAWRENCE JOHNSON, *Michigan Tech '33*, died February 15, 1968.

LESTER F. KOHLE, *California (Berkeley) '19*, died recently. He served overseas in World War I. After his graduation from the University of California, Brother Kohle worked for a British oil firm in Tampico, Mexico. From 1925 through 1959 he was employed by the Doherty oil interests in California, Texas, and the Mid-Continent as a petroleum engineer, production engineer, and field superintendent. In 1959 he retired to do consulting work. Brother Kohle is survived by his wife, a son, a daughter, and four grandchildren.

JAMES B. LAKIN, *Syracuse '46*, died March 27, 1968. He lived in Stamford, Conn.

ARCHIE B. LEACH, *Alabama '28*, died October 12, 1968 in Tuscaloosa, Ala. He was vice president of the First Federal Savings and Loan Association in Tuscaloosa until he retired a year ago. Brother Leach was a member of the Christ Episcopal Church, where he served on the Vestry, and was a member of the Tuscaloosa Kiwanis Club. For several years he was secretary-manager of the Tuscaloosa Chamber of Commerce. Brother Leach is survived by his wife, a daughter, three grandchildren, two sisters, and a brother. (*The Tuscaloosa News*)

OTTO LUND, *Michigan Tech '22*, died February 8, 1968.

PETER S. MARTHAkis, *Utah '15*, died September 1, 1968 in Greece, where he was visiting. For 40 years he had been a mathematics teacher at West High School in Salt Lake City, Utah. Brother Marthaakis came to this country from Greece as a boy. After his graduation from the University, he taught at Bingham Canyon High School briefly, then enlisted in the service during World War I. After his discharge he began teaching at West High School, and he also taught classes in "Americanization" through the American Hellenic Educational Progressive Association. He was one of the first Greek immigrants to be elected to office in America, serving six years in the Utah House of Representatives and four years as a state senator. Brother Marthaakis took postgraduate work at the University of Utah, the University of California, and Columbia University in law and engineering. He

was a past president of the Salt Lake City Teachers Association, and was a member of Tau Beta Pi, Phi Delta Kappa, Masonic orders, and the American Legion. He was past supreme vice president of the Order of Alpheas, a past master of the Odd Fellows, and past president of Holy Trinity Greek Orthodox Church. Brother Marthaakis is survived by his wife, a son, two brothers, and two sisters. (*Salt Lake Tribune*)

EDWARD P. MCGHEE, *Arkansas '27*, a charter member of Upsilon Chapter, died January 9, 1968. He lived in Lake Village, Ark.

SAMUEL L. MCKINNEY, *Kansas '39*, died February 23, 1968 in Alameda, Calif. He was employed in the personnel department at the Naval Air Station in Alameda. Brother McKinney served in the Navy and was a member and past commander of the American Legion Post in Alameda. He was also a member of the Baptist Church and Masonic Lodge. Brother McKinney is survived by his wife, a daughter, two sons, two grandchildren, and five sisters.

CAPT. JAMES J. MCKINSTRY, JR., *California (Berkeley) '60*, was killed in Vietnam in 1968. He was a captain in the U.S. Air Force, and was named a distinguished Air Force cadet upon graduation. Brother McKinstry is survived by his wife, two daughters, his parents, a sister, and a brother. (*California Monthly*)

SEELEY G. MUDD, M.D., *Columbia '19*, died March 10, 1968 in San Marino, Calif. He was professor of radiation therapy at Cal Tech in 1934-1936, and dean of the USC School of Medicine from 1941 to 1943. Brother Mudd contributed to the building of many university buildings in Southern California, New York, and Massachusetts, including the Seeley W. Mudd Building at Columbia and the Seeley W. Mudd Memorial Laboratory of the Medical Sciences at the University of Southern California, both named for his father. He also created endowments and scholarships at many institutions, including Columbia, Harvard, Stanford, Cal Tech, and Mills College. Brother Mudd is survived by his wife, a daughter, a son, and nine grandchildren. (*Columbia Engineering Alumni Magazine*)

ARTHUR A. NICHOLS, *MIT '28*, died March 30, 1968. He lived in Weston, Mass.

WALTER H. PARKER, *Minnesota Hon. '07*, died in 1967.

JOHN A. PENTICUFF, *Kansas '22*, died October 19, 1968 in Kansas City, Mo. He was part owner of the Mission Office Equipment Co. and of the Overland Office Supply Co. in Overland Park, Kans. From 1922 to 1941 Brother Penticuff was an automotive advertising manager for the *Kansas City Journal Post*, and during World War II he was a supervisor for the Pratt & Whitney Aircraft Co. After the war he was associate manager of the Prudential Life Insurance Co. of Kansas City until his retirement in 1965. Brother Penticuff is survived by a son and two grandchildren. (*Kansas City Star*)

THE GEAR OF THETA TAU

DR. EUGENE S. PERRY, *Montana Tech Hon.* '10, died October 1, 1968 in Golden, Colo. He was a well known geologist and author. Brother Perry attended the University of Missouri at Rolla and the University of Wisconsin, and earned his bachelor's and master's degrees at the University of Kentucky. He was chairman of the Department of Geology at Kentucky. During World War I he served for a year in France, then earned his Ph.D. at the University of Chicago. For 27 years Brother Perry was chairman of the Department of Geology and chief of the Bureau of Mines and Geology at Montana School of Mines. He authored 35 publications, the last being *Montana in the Geological Past*, which is used as a text in some Montana high schools. From 1952 to 1962 Brother Perry was professor of geology at the University of South Carolina. When he retired, he returned to the Rockies to live in Golden, Colo., where he had access to the Colorado School of Mines library. He was working on a manuscript when he died. Brother Perry was a Fellow of the Geological Society of America and a member of Sigma Xi and Kappa Sigma. He is survived by his wife, two daughters, and five grandchildren.

CHARLES L. PETZE, *MIT* '25, died January 29, 1968. He lived in New Castle, Del.

RAY E. PICKETT, *Missouri at Rolla* '48, died May 15, 1968 in Milwaukee, Wis. of injuries suffered in a fall. He lived in Youngstown, Ohio, where he was employed as general sales manager for Universal-Cyclops Corp. After his graduation, Brother Pickett was employed by Marsh Steel Corp. in North Kansas City. He was general sales manager when he left the company in 1957. Later he worked as manager of warehouse sales for Builders Steel Co. and for Youngstown Sheet and Tube Co. as a manager of steel service. Brother Pickett was a member of Sigma Nu and of Old Mission Masonic Lodge and the Community Christian Church in Kansas City. He is survived by his wife, two daughters, a son, and his parents.

PROF. JOHN C. PRIOR, *Ohio State Hon.* '06, died April 3, 1968 in Columbus, Ohio. He was professor emeritus of civil engineering at Ohio State, where he was a member of the faculty 33 years. After his graduation, Brother Prior worked as an engineer for the City of Columbus, and the Franklin County Conservation District. From 1916 to 1923 he was a member of Braun, Fleming, Knollman & Prior, consulting engineers, in Columbus. He was engineer in charge of the Columbus Water Department from 1923 to 1932. Brother Prior was on the faculty of Ohio State from 1924 to 1954, then was a principal engineer for Burgess & Niple, consulting engineers, in Columbus until 1964. He was a member of the Board of Inquiry of the Department of Highways and of the Planning Commission of the City of Columbus. He was a past president of the Ohio Section of the American Society of Civil Engineers, and was a member of the American Standards Association, the American Geophysical Union, Tau Beta Pi, Chi Epsilon, and various clubs. Brother Prior is survived by his wife, and two sons.

DAVID A. REID, *Minnesota* '62, was killed in the crash of a light plane on February 12, 1968. He lived in St. Paul.

C. MERLE ROW, *South Dakota Tech* '22, a charter member of Omega Chapter, died in March 1968. He lived in Spearfish, S.D.

LARRY GLEN RYLAND, *Missouri at Rolla* '69, was killed in an automobile accident on May 27, 1968. He was Inner Guard of Iota Chapter. He is survived by his parents.

OLIVER D. SEELY, *Utah* '27, died August 1, 1968 in Salt Lake City. He was a statistician for Metropolitan Life Insurance Co. for 30 years. Brother Seely is survived by one brother and three sisters.

GERALD BERNARD SHEA, *Michigan Tech* '21, died September 20, 1968.

DR. PHILIP J. SHEENON, *California (Berkeley)* '22, died November 30, 1966. He lived in Salt Lake City, Utah.

WILLIAM A. SPINELLE, *Arkansas* '51, died March 14, 1968. He lived in North Little Rock.

RAYMOND R. STOKES, *Purdue* '35, died April 4, 1968. His home was in Rice, Minn.

WILLIAM THOMAS STRALEY, *Virginia* '22, a charter member of Pi Chapter, died September 24, 1968 in La Jolla, Calif.

RUSSELL E. TILTON, *Michigan Tech* '32, died April 1, 1968 in Columbus, Ohio. He was director of engineering at Columbus Coated Fabrics Co., with whom he had been associated for 31 years. Brother Tilton is survived by his wife, a son, a daughter, two grandsons, and a brother.

BLAINE WATTS, *Utah* '34, an ore buyer for United States Smelting and Refining Co., died June 4, 1968 in Midvale, Utah. Brother Watts was very active in Boy Scout work for 37 years. He was chairman of the Boy Scouts Committee for the Church of Jesus Christ of Latter-day Saints, general chairman of the 1966 Canadian-United States Boy Scout Encampment at Farragut State Park, Idaho, and a member of the Boy Scouts of America National Committee. Shortly before his death, Brother Watts was awarded the Abraham O. Smoot Public Service Award at Brigham Young University. He was also active in church work, the United Fund, and Civil Defense. Brother Watts is survived by two daughters, three sisters, and five brothers.

GEORGE F. WEISSEL, *Minnesota* '07, died October 7, 1967.

ROBERT M. WHEELER, *Colorado Mines* '08, died March 1, 1968.

JOHN W. WILKINSON, *Kansas* '33, died December 14, 1967. He lived in St. Louis, Mo.

WILLIAM M. WINTER, *Minnesota* '23, died September 8, 1967.

Alumni Notes

MINNESOTA

A CLARENCE W. MOWERY, '08, is retired; he lives in St. Paul, Minn.

MAURICE W. HEWETT, '13, is retired and is living in Richmond, Va.

STAN LOEFFLER, '15, is currently supplying engineering services to the K. M. Clark Engineering Co. of Minneapolis. He is specializing in the design



A three track, 442 foot railway bridge designed by Brother Loeffler in 1963.

of railway bridges in connection with highway-railroad grade separation structures. Brother Loeffler has done railway engineering work since graduation, working for the Northern Pacific Railway Co. and the Great Northern Railway Co. He retired in 1959 as assistant chief engineer for the Great Northern. After five years of retirement, which included much traveling, he went back to work as a self employed consultant. He reports that he enjoys it very much and that it keeps him in circulation.

RUSSELL L. SORENSON, '27, is president of Sorenson Construction Co., Albert Lea, Minn.

ROBERT A. GERLACHER, '28, is a staff engineer for Copolymer Rubber & Chemical Corp., Baton Rouge, La.

RAYMOND V. ENGLUND, '30, is a power sales engineer for Commonwealth Edison Co., Chicago. He lives in Elmwood Park, Ill.

J. HERGEN WILSON, '32, is employed by Electrical Materials Co., Westchester, Ill.

RALPH E. McMILLEN, '39, is self employed as a geologist-geophysicist consultant in Tulsa, Okla.

ROBERT W. ROSENE, '45, is a consulting engineer with Bonestroo, Rosene, Anderlik & Associates, St. Paul, Minn.

THEODORE E. MORAYEC, '46, is district sales manager for Allstate Insurance Co. in Indianapolis, Ind.

CAPT. GLEN M. PERSONIUS, '57, has received the U.S. Air Force Commendation Medal at Phan Rang Air Base, Vietnam. He was decorated for meritorious service as an aerospace research flight test officer at Wright-Patterson AFB, Ohio.

ROGER D. SCHULTZ, '57, is a construction engineer for Arcon Construction Co., Mora, Minn. His home is in Cambridge, Minn.

JAMES DATTI, '61, is an engineer with Honeywell in Minneapolis, Minn.

CHARLES E. GÖRGEN, '62, is a sales engineer with Harnischfeger in Wellesley Hills, Mass. He lives in Needham, Mass.

WILLIAM S. CARLSON, '63, is a systems engineer for IBM in Minneapolis, Minn.

DAVID A. GREGERSON, '63, is a project engineer for ThermoKing Corp. in Minneapolis, Minn.

DR. JAMES T. PETERSON, '63, received his Ph.D. in meteorology from the University of Wisconsin in June. He is now employed by the National Air Pollution Control Administration at the Taft Sanitary Engineering Center, Cincinnati, Ohio. He is the father of a daughter, Andrea Karin, born June 20, 1968.

CARL DARLING, '66, received his MSCE degree from Stanford University in June 1967. He is working for Dow Chemical Co. in Midland, Michigan in special assignments. Brother Darling is the father of a son, Charles Alan.

JAMES E. BENTSON, '67, is a production engineer for Honeywell Inc. in Minneapolis. He lives in Plymouth, Minn.

MICHIGAN TECH

B ROWLAND KING, '16, is retired; he lives in Victoria, B.C.

EDWIN L. BEMIS, '18, is retired as assistant general superintendent of International Harvester in Hibbing, Minn. He and his wife live in Winter Park, Fla.

DELOS I. DOMIN, '18, lives in Waukesha, Wis. He is retired as a metallurgist and foundry plant superintendent.

PHILLIP A. CAMPBELL, '20, is retired and is living in Santa Fe, N.M.

RAY SATTERLEY, '25, retired in August as general manager of Inland Steel Co.'s iron ore mines and vice president of Caland Ore Co., Ltd. He is a past president of the Michigan Tech Alumni Association, a member of AIME, CIMM, and the Kitchi Gaijini Club of Duluth. Brother Satterley and his wife live in Ishpeming, Mich.

CLARENCE F. SEAMAN, '28, is a ventilation engineer for Tennessee Copper Co., Ducktown, Tenn. He lives in Blue Ridge, Ga.

RANDALL F. GEIERKE, '29, is a liaison officer with the U.S. Air Force. He lives in Torrance, Calif.

THE GEAR OF THETA TAU

CHARLES L. WEBB, '31, is employed by Square D Co. in Lexington, Ky.

EDWIN E. CLEVER, '32, is a buyer for Scholtz-Snyder-Steele Lumber Co. of Lassing, Mich. His home is in Holt, Mich.

AUSTIN L. BERRY, '40, is a senior management engineer for Merle Thomas Corp., Kensington, Md. He lives in Silver Spring.

EARL D. CAMPBELL, '43, is manager of purchasing for General Electric Co. in Philadelphia, Pa. He lives in Broomall, Pa.

RICHARD D. SCHUCH, '48, is a metallurgist for the Panhandle District of Phillips Petroleum Co. in Phillips, Texas. He lives in Borger, Texas.

JOSEPH M. FERRELL, JR., '49, is a senior metallurgist for Brunswick Corp., Muskegon, Mich. His home is in North Muskegon.

JAMES G. PHILLIPS, '49, is a geologist and department head for Penn-Dixie Cement Corp., Bath, Pa. He lives in Nazareth, Pa.

R. E. DUNSTER, '50, is general sales manager for Fahrvalley Canada Ltd. in Orillia, Ontario.

K. A. SPOONER, '50, is a consulting engineer in Benton Harbor, Mich.

ROBERT H. SCHAFER, '52, is president of Hartmann-Schaffer Engineering Co., Detroit. He lives in Farmington, Mich.

G. A. HARRIS, '53, is a sales engineer with Standard Oil Co. (Indiana). He lives in Wells, Mich.

MAJOR WILLIAM J. WALLEN, '54, is attending the U.S. Air Force Air Command and Staff College at Maxwell AFB, Ala.

RONALD E. HAVEL, '55, is a planning engineer for H. W. Lochner, Inc., Chicago. He lives in Naperville, Ill.

MAJOR VERNELLE T. SMITH, '59, was promoted to major in October 1967 and was awarded the Bronze Star Medal for outstanding meritorious service while serving as company commander in the 864th Engineer Battalion, Cam Ranh Bay, Vietnam. He is now a military analyst in the Doctrine Division of the USA Supply Agency, Fort Lee, Va. His home residence is in New Hartford, N.Y.

CAPT. DAVID J. TREIMBERGER, '60, received the U.S. Air Force Commendation Medal at Brooks AFB, Texas. He was decorated for meritorious service while assigned at Torrejon Air Base, Spain.

LT. GENE PARTYKA, '61, is a naval aviator. His home is in Chicago, Ill.

DAVID A. BUFIELD, '62, is a sales representative for Honeywell, Inc., Aerospace and Defense Group. He lives in Dayton, Ohio.

DONALD SAARI, '62, is a research staff astronomer at Yale University, New Haven, Conn.

THOMAS R. IRWIN, '63, is a technical assistant for Dow Chemical Co., Midland, Mich.

ALLEN D. MOORE, '67, is an engineer trainee with Chicago, Burlington & Quincy Railroad, Chicago. His home is in Hinsdale, Ill.

DONALD W. SLOAT, '67, was commissioned a second lieutenant in the U.S. Air Force upon graduation from Officer Training School at Lackland AFB, Texas. He was assigned to Wright-Patterson AFB, Ohio for training as a base civil engineer.

COLORADO MINES

THADDEUS H. ANDREWS, '17, is retired; he lives in Port Townsend, Wash.

H. G. SCHNEIDER, '18, is in business as an oil producer in Dallas, Texas.

MAXWELL L. MCCORMACK, '26, has retired as executive vice president of Ingersoll-Rand Co. He was also a director of Canadian Ingersoll-Rand Co., Ltd., Lee-Norse Co., Improved Machinery, Inc., Southwest Industries, Inc., and Lawrence Manufacturing Co. Brother McCormack joined Ingersoll-Rand upon graduation, and advanced through many positions. He will be retained by the company on a consultant basis. In 1963 he received the Distinguished Achievement Medal given by Mines. He is a member of the Board of Governors of the American Mining Congress, a past president of the Mining Club of New York City, and was a member of the Mining Machinery Advisory Committee of the War Production Board. Brother McCormack lives in Scotch Plains, N.J.

DONALD I. GARAGAN, '27, is an exploration consultant for Tenecco Oil Co., Houston, Texas.

T. F. ADAMS, '29, is a consultant in tunnel construction for Brown & Root Inc. He lives in Denver, Colo.

CHARLES F. BONNETT, '31, was awarded the Distinguished Achievement Award of Mines. He is assistant general manager of the Building Products Division of American Cyanamid Co., Wakefield, Mass. He lives in Concord, Mass.

ROBERT W. HARRISON, '33, received the Distinguished Achievement Award for 1968 from Mines. He retired in 1967 as president and owner of his own firm, which specialized in appraisal reports and estimates of reserves in place. Brother Harrison lives in Houston, Texas.

CHARLES N. BELL, '34, vice president of Consolidated Electronic Industries, has been elected a trustee of Prescott College.

TENCH G. SWARTZ, '39, is manager of South American sales for the Eisco Corp. He is located in Lima, Peru.

LOUIS DEGOES, '41, is now executive secretary of the Committee on Polar Research for the National Academy of Sciences, Washington, D.C. He retired from the Air Force as a colonel in 1967. Brother DeGoes lives in McLean, Va.

FALL 1968

F. CLINTON EDWARDS, '41, is vice president and general manager of Pennzoil Co., Midland, Texas.

WALTER C. KEIL, '42, is manager of manufacturing engineering for Sundstrand Aviation, Denver. He lives in Aurora, Colo.

R. T. REITSMYER, '42, is a sales engineer for Ingersoll-Rand Co. in New Orleans, La.

E. T. WOOD, '48, is assistant general manager of Missouri Lead Operating Co., Salem, Mo.

JAMES H. PITTINGER, '49, was awarded Mizes' Distinguished Achievement Award for 1968. He recently resigned as president of Shell Pipe Line Corp. to become president and chief executive officer of Apco Oil Corp., Oklahoma City, Okla.

WALLACE MCGREGOR, '52, is self employed as an economic geologist in Salt Lake City, Utah.

DONALD E. MILLER, '53, has been named a vice president of Gates Rubber Co. He will be in charge of belt manufacturing at the plants in Denver and Elizabethtown, Ky.

CHARLES R. RUSSELL, '54, is an associate specialist in the Management Services Department of Coastal States Gas Producing Co., Corpus Christi, Texas.

MAJOR WILLIAM J. WESTHOFF, '55, was named to the commandant's list when he graduated from the U.S. Army Command and General Staff College in June at Fort Leavenworth, Kansas.

RONALD L. LEWIS, '56, was one of three faculty members at the College of Engineering at the University of Southwestern Louisiana who were designated to share a \$5,000 award by the Halliburton Education Foundation. Brother Lewis is now completing requirements for a Ph.D. at the University of Texas.

IVAN D. ALLRED, JR., '59, is a petroleum engineer for Glover Heffner Kennedy Oil Co., Oklahoma City, Okla.

ROBERT F. JENKINS, '60, is a project engineer for Twyman Engineering Co., Orange, Calif. He lives in San Clemente.

DR. JOHN D. ROCKAWAY, JR., '61, was awarded his Ph.D. in geological engineering by Purdue University in June. He is now an assistant professor at the University of Missouri at Rolla.

LT. ROBERT L. DUNN, '65, is serving in the U.S. Army Corps of Engineers. He lives in Alexandria, Va.

WILLIAM R. WILSON, '65, is a metallurgical engineer for Aluminum Co. of America, Vernon, Calif. His home is in Tortona.

CASE WESTERN RESERVE



W. R. HOFFMAN, '18, is retired; he lives in Cleveland, Ohio.

ROBERT L. ZAHOUR, '23, has been awarded the Distinguished Service Award of the Illuminating Engineering Society. Brother Zahour is retired manager of lamp applications for Westinghouse Lamp Division. He is also a Fellow and has Emeritus status in IES. (See the Spring 1966 GEAR.)

FRED A. WEBBER, '32, has been transferred by Republic Steel Corp. from the South Chicago Plant's Wire Mill & Metal Dept. to the Claims Dept. of the Cleveland, Ohio office. He lives in Lakewood, Ohio.

HAROLD J. RATHBUN, '33, is general patent counsel for Square D Co., Park Ridge, Ill.

SCOTT H. HANVILLE, JR., '38, is vice president and general manager for the Power Equipment Division of Lear Siegler, Inc., Bedford, Ohio. He lives in Cleveland.

WARREN E. RUFF, '42, is president of the Warren Rupp Co., Mansfield, Ohio.

N. T. SAWDEY, '45, is a project engineer for Republic Steel Corp. in Ferndale, Mich. He lives in Troy, Mich.

DR. WILLIAM E. KREGER, '46, is head of the Physical Sciences Division of the Naval Radiological Defense Laboratory, San Francisco. He lives in Burlingame, Calif.

ROBERT H. ELLIN, '47, is employed by TRW Systems, Redondo Beach, Calif. He lives in Palos Verdes Estates.

ATHLETIC JOURNAL



Rick Avis, Colorado Mines '68, (right) a letterman on his school's wrestling team, appeared on the cover of the December 1966 issue of *Athletic Journal*.

THE GEAR OF THETA TAU

MORLEY G. MELLEN, '48, is administrator of AEP idea exchange for American Electric Power Service Corporation, New York City. He is co-author of *Practical Automation* and a contributor to the first edition of *The Industrial Engineering Handbook*.

DONALD L. SOUTHERN, '51, is chief development engineer for Harris Seybold in Cleveland. His home is in Brecksville, Ohio.

JOHN MURPHY, '55, is now with Feat, Marwick, Mitchell and Co. as a management consultant. Formerly he was with United States Steel Corp. as a division industrial engineer. Brother Murphy lives in University Heights, Ohio.

JAMES J. SCHILLER, '55, is an attorney at law with Marshman & Snyder in Cleveland. He lives in Shaker Heights, Ohio.

THOMAS A. BLANCHARD, '57, is manager of research and development for Surface Combustion Division of Midland Ross Corp., Toledo, Ohio.

DENNIS B. HEFFNER, '64, is a research fellow at Case Western Reserve. He lives in Cleveland Heights, Ohio.

Pvt. NILS A. NILSON, '67, completed advanced training as a combat engineer at Fort Leonard Wood, Mo. He was employed by Shell Oil Co. in Cincinnati before entering the Army.

RICHARD A. DAUGHERTY, '68, is an electrical engineer for NASA at Huntsville, Ala.

THOMAS C. ESSELMAN, '68, is a graduate assistant at Case Western Reserve.

ROBERT C. MELTZER, '68, is an associate engineer for Univac Division of Sperry Rand in Roseville, Minn. He lives in St. Paul.

JAMES B. MISCH, '68, is a research engineer for E. H. Plesset Associates, Santa Monica, Calif.

CALIFORNIA (BERKELEY)

E CHESTER ALLEN, '13, is retired and is living in San Pedro, Calif.

DR. FRANCIS E. VAUGHAN, '16, is president of V. & E. Manufacturing Co., Pasadena, Calif.

BRUCE BARKIN, '17, is president of B & W Inc., Houston, Texas.

JAMES B. CHAMBERLAIN, '24, is retired; he lives in San Marino, Calif.

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

THOMAS W. KOCH, '24, is a retired oil geologist. He lives in Reno, Nev.

RALPH A. MCGOY, '27, is a petroleum consultant, now semi-retired. He lives in Bakersfield, Calif.

DR. JOHN C. HAZZARD, '28, is senior exploration advisor for the International Division of Union Oil Co. of Calif., Los Angeles. He lives in Studio City, Calif.

DR. ROGER REVELLE, '29, is Richard Saltonstall professor of population policy and director of the Center for Population Studies at Harvard University. He is also a member of the President's Science Advisory Committee Panel on the World Food Supply.

E. B. BUNTER, '40, is executive vice president of the Townsend Company, a division of Textron Inc. He lives in Santa Ana, Calif.

DR. M. P. NACKOWSKI, '41, professor of mining and geological engineering at the University of Utah, is currently on leave of absence to serve as a UNESCO expert in applied geology, METU, Ankara, Turkey.

ROBERT N. HACKER, '48, a consulting petroleum geologist, has opened new offices in Los Angeles, specializing in petroleum geology in California coastal and offshore areas and Southwest Utah. Formerly he was with Union Oil Co. of Calif. and Lloyd Corp., Ltd. Brother Hacker lives in Canoga Park, Calif.

PAUL C. PERRY III, '52, is on a special assignment in economics for Shell Oil Co. in New York City. He lives in Ridgewood, N.J.

VICTOR A. ZULLO, '58, is associate curator of the Department of Geology at the California Academy of Sciences, San Francisco. He lives in San Rafael.

MICHAEL E. WESTALL, '68, is a development engineer for Consolidated Electrodynamics, Pasadena, Calif. He lives in Glendora.

KANSAS

Z CHARLES L. SHUGHART, '18, is the retired school superintendent of De Soto, Kansas.

CHARLES W. HUBBELL, '26, is manager of the Engineering Department of Phillips Petroleum Co., Bartlesville, Okla.

DEAN A. MCGEE, '26, president and chairman of the board of Kerr-McGee Corp., was awarded an honorary doctor of engineering degree at the 1968 commencement of Colorado School of Mines.

GEORGE H. CASH, '28, retired last March from Cabot Carbon Ltd., the European Division of Cabot Corp. He is building a home in Roedy, West Va. From 1951 to 1953 and 1955 to 1968, Brother Cash was in England, responsible for the manufacturing operation of the first ECA project on the globe. During his tenure the plant grew from an initial capacity of 17,000,000 pounds per year of oil furnace process reinforcing carbon black to the capacity of 200,000,000 pounds per year. The product is supplied principally to the tire industry. His job took him to Canada, France, Italy, Germany, Denmark, and Australia. He also traveled in Africa.

FALL 1968

During World War II Brother Cash served as a lieutenant in the U.S. Naval Reserve Seabee organization in the Pacific Theatre.

L. GEORGE FEEL, '28, is chief of the Planning Division—Civil Works for the Corps of Engineers in Washington, D.C. He lives in Alexandria, Va.

FRANK I. BAXTER, '29, has returned from Taiwan where he was a volunteer adviser for the Chinese Petroleum Corp. in Taipei as a part of the International Executive Service Corps. Brother Baxter is retired as marketing engineer and assistant sales manager for Panhandle Eastern Pipe Line Company's Western Division.

ELMER H. RUMH, '29, retired last March from Shell Oil Co. after 34 years. He lives in Glendale, Calif.



GLENN E. HANDS, '34, is now an associate engineer with Larkio and Associates, Consulting Engineers, in Kansas City, Mo. For the last three years he has been chief sanitary engineer for the West Pakistan Public Health Engineering Dept. on an assignment with the Ralph M. Parsons Co., Los Angeles. There he had the responsibility for planning and

designing water supply and sewerage facilities for cities in West Pakistan. He also headed a project of training a force of 50 Pakistani engineers in the designing, construction, and operation of such facilities. For 29 years Brother Hands was associated with Burns and McDonnell Engineering Co. of Kansas City. He is a past president of the Kansas City Section of the ASCE, and is a member of the Pakistan Institute of Engineers and the American Academy of Environmental Engineers. He is listed in *Who's Who in Engineering* and in 1963 he was named "Man of the Year" by the Missouri Section of the American Water Works Association. He is the author of numerous technical papers.

PIRSTON A. COLE, '36, is chief geologist for Cities Service Gas Co. in Oklahoma City, Okla.

DR. ELMER L. DOUGHERTY, '31, is vice president of Scientific Software Corp., Denver, Colo. He also teaches a course in operations research at the University of Denver. In January Brother Dougherty left Union Carbide Corp. to form D² computing Services in Stanford, Conn. On June 1 he merged that company into Scientific Software Corp. Brother Dougherty and his wife have four children.

MAJOR JOE ENGLE, '34, was one of three astronauts who underwent a simulated voyage of eight days in a test model of the Apollo command and service module bolted inside a thermal vacuum chamber at the Manned Spacecraft Center in Houston.

RICHARD A. SCHROFF, '58, is manager of the Gas Department of Associated Oil & Gas, Houston, Texas. He had been employed by Cities Service Oil Co. in Tulsa, Okla.

C. RICHARD GLENNER, '59, is a Ph.D. candidate in physics at Louisiana State University. He works with a high energy physics group which will put a cosmic ray experiment on Chalk Mountain in Colorado this summer.

DONALD L. COFFMAN, '61, is a design engineer for Seabright Co., Inc., Kansas City, Mo. He lives in Parkville, Mo.

JOHN R. PERRY, '65, is a reactor engineer for Idaho Nuclear Corp., Idaho Falls. His home is in Pocatello, Idaho.

MIT

H VERTREES YOUNG, '16, is a retired vice president and director of Crown Zellerbach Corp. He lives in Bogalusa, La.

E. L. HARLEN, '21, is retired; he lives in West Plains, Mo.

JAMES Q. DU PONT, '26, is administrative assistant in the Public Relations Dept. of E. I. du Pont de Nemours & Co., Inc. He lives in Wilmington, Del.

ROBERT C. WALLACE, '27, is senior project engineer for Brockway Motor Trucks, a division of Mack Trucks in Cortland, N.Y.

JOHN P. RICH, '30, is president of Improved Machinery, Inc., Nashua, N.H.

COLUMBIA

C FELIX E. WORMNER, '16, is a consulting mining engineer. He lives in Greenwich, Conn.

G. LESTER JONES, '22, is owner of Jones R & D Laboratory, Marne, Mich.

CHARLES M. BRINCKERHOFF, '25, chairman of the board and chief executive officer of the Anaconda Company, was awarded the 1968 William Lawrence Saunders Gold Medal for distinguished achievement in the field of mining on February 28. The medal is presented by the AIME. Other awards Brother Brinckerhoff has received are the Eggleston Medal, the George Vincent Wendell Medal, the Distinguished Achievement Award from the Holland Society of New York, and the Bernardo O'Higgins Order of Merit. He is a member of AIME and a member of the Engineering Council of Columbia. Brother Brinckerhoff is also a director of the First National City Bank of New York and ACF Industries, Inc.

GEORGE R. GOREN, '29, is retired; he lives in Shelter Island Heights, N.Y.

JAMES A. KEARNEY, '30, is now dean of metallurgy at the Educational Institute of Pittsburgh, Pa. He has retired from the Crucible Steel Co.

THE GEAR OF THETA TAU

JOSEPH H. WALTER, Jr., '38, was awarded the Alumni Medal by the Columbia Engineering Alumni during Commencement. He is engaged in water and air pollution control engineering for Proctor and Gamble Co. in Cincinnati, Ohio. He has been active as a Columbia alumnus and as a member of the Board of Education in his city.

WILLIAM VERMEULEN, '40, is manager of engineering for General Electric Co. in Bridgeport, Conn. He lives in Fairfield, Conn.

ARTHUR F. CERVENKA, '41, is a member of the corporate operations staff for Grumman Aircraft Engineering Corp., Bethpage, N.Y. He lives in Oakdale, N.Y.

BENEDICT F. MELUCCI, '43, is director of industrial products for Latin America for American Cyanamid Co., Wayne, N.J. He lives in Teaneck, N.J.

ROBERT W. SCHUBERT, '43, is director of the Custom and Defense Systems Division of IBM World Trade Corp. He is living in Paris, France.

HENRY J. PETRIE, '45, is district sales manager for Kaiser Engineers in New York City. He lives in White Plains, N.Y.

RICHARD G. BAXTER, '50, is doing advanced operational planning for E. I. du Pont de Nemours, Aiken, S.C.

EDWARD G. CLARKE, '51, is an industrial engineer with Archer Products. His home is in Lebanon, Pa.

JOHN J. KRAJCIR, '52, is a chemical sales engineer for the Explosives Department of E. I. du Pont Co. He lives in Bellevue, Wash.

DR. ROBERT E. JONES JR., '53, is an advisory chemist for IBM. He lives in Poughkeepsie, N.Y.

HAROLD A. FISHER, '57, is resident manager of sales for Granite City Steel Co. in Omaha, Nebr.

HOWARD L. FREENSE, '63, is an applications engineer for Corning Glass Works, Corning, N.Y. He lives in Horseheads, N.Y.

GABRIEL A. ROSICA, '63, is a development project engineer for the Foxboro Co., Foxboro, Mass. He lives in Franklin, Mass.

ROBERT A. BOROBYN, '66, is a chemical engineer for American Cyanamid in Stamford, Conn. He is working toward his MBA at night at the University of Connecticut.

MISSOURI AT ROLLA

I **JOHN R. STUBBINS**, '20, is a director of Oficina Tecnica Stubbins C. A. in Caracas, Venezuela. He is the founder and retired president of the firm, which has dealt in construction, mining, oilfield, and industrial equipment in Venezuela since 1932.

HAROLD S. THOMAS, '26, is retired; he lives in Tucson, Ariz.

JESSE S. LeGRAND, '38, is a senior scientist (electronics) for ITT Avionics Division, Nutley, N.J. He lives in Clifton, N.J.

ALMON E. RHODES, '39, is vice president of the Production Division of Public Service Company of New Mexico in Albuquerque.

W. E. CROCKETT, '41, is a sales representative in Findlay, Ohio.

R. KENT COMANN, '43, is manufacturing manager—gypsum for Johns-Manville Products Corp., San Francisco. He lives in Los Altos, Calif.

PAUL F. CARLTON, '47, is chief of the Environmental Sciences Branch of the Science and Technology Division of the Directorate of Development at the U.S. Army Materiel Command, Washington, D.C. He lives in Fairfax, Va.

JAMES B. CHANEY, '48, is assistant manager of production for the Baroid Division of National Lead Co., Houston, Texas.

COL. WILLIAM C. McMILLAN, '48, is now director of maintenance with Headquarters, 1st Logistical Command near Long Binh, Vietnam. Previously he was stationed at Fort Bliss, Texas.

THEODORE A. RUFFERT, '51, is executive vice president of Loose Leaf Metals Co., St. Louis, Mo.

Lt. COL. CONNELLY SANDERS, JR., '53, has graduated from the U.S. Army Command and General Staff College course at Fort Leavenworth, Kans.

DR. JOHN B. MILLER, '55, is among those listed in the 1968 edition of *Outstanding Young Men of America*. He is associate professor of mechanical engineering at the University of Missouri at Columbia.

WILLIAM A. KRUGER, '59, is an associate of Clark, Dietz & Associates, Urbana, Ill. He lives in Champaign, Ill.

DR. W. L. HALLENBERG, '62, received his Ph.D. in metallurgy from Case Western Reserve University in September 1968. He is now a senior engineer with Union Carbide in Kokomo, Ind. He and his wife are the parents of a son, Eric, born February 8, 1968.

MICHAEL R. JOHNSON, '62, is a research metallurgical engineer with Battelle Memorial Institute, Columbus, Ohio.

ROBERT R. POWERS, '62, is a construction engineer for American Oil Co., Kansas City, Mo.

JERRY C. SWANK, '62, is a project engineer for Laclede Gas Co., St. Louis, Mo.

RONALD S. ROBERTSON, '63, is now serving in the U.S. Army at Picatinny Arsenal, Dover, N.J. He and his wife are the parents of a daughter, Christine Louise, born September 7.

J. A. CLIFFARD, '65, is a design engineer with Cities Service Oil Co., Tulsa, Okla.

FALL 1968

JAMES E. BERTELMEYER, '66, is attending graduate school at Memphis State University.

RICHARD VEDDER, '67, is a prototype plant engineer with Monsanto Biotech Systems Inc. He lives in St. Louis, Mo.

TOMMY L. CADWELL, '68, is a construction engineer for Monsanto Chemical Co. in St. Louis. He lives in Alton, Ill.

GARRY L. JANUARY, '68, is an electrical engineer with Westinghouse Electric Corp., St. Louis, Mo.

MICHAEL J. KLOSTERMAN, '68, is a public health engineer for the City of St. Louis Health Dept. He expected to be drafted by September.

DAVID L. OTTO, '68, is a programmer for the Pontiac Motor Division of GMC in Pontiac, Mich.

MICHAEL F. REDINGTON, '68, is a production supervisor for Olin Mathieson in East Alton, Ill. He lives in Florissant, Mo.

WILLIAM E. STEWART, JR., '68, is a biomedical engineer for McDonnell Douglas Corp., St. Louis. His home is in Overland, Mo.

KARL F. ZIEGLER, '68, is an assistant design engineer for McDonnell-Douglas Corp., St. Louis, Mo.

ILLINOIS

K HARRY DARBY, '17, was awarded an honorary degree by Washburn University at the June commencement in Topeka, Kans. Brother Darby is a Kansas City, Kans. industrialist and political leader.

FRANCIS H. PEARSON, '18, is a mechanical engineer in the Link Group of General Precision, Sunnyvale, Calif. He lives in San Mateo, Calif.

FRANK W. MEZEK, '21, is retired; he lives in Oaklawd, Ill.

WILLIAM F. GERDES, '24, is a retired steel fabrication executive for Michelmann Steel Construction Co. He is also a director of the company. Brother Gerdes lives in Quincy, Ill.

FULTON W. COFF, '25, is a consultant for the Pipeline Division of Bechtel Corp., San Francisco, Calif.

C. H. ELSHER, '25, is a retired consultant. His home is in Hinsdale, Ill.

CHARLES LUCKMAN, '30, president of Charles Luckman Associates and of Ogden Development Corp., has been appointed to the Los Angeles County District Attorney's Advisory Council.

ROBERT P. SAYERS, '30, is a field sales engineer for Link-Belt Division of FMC Corp. He lives in Chicago, Ill.

HAROLD A. LOW, '31, is vice president and chief engineer of Missouri Valley Constructors, Inc. in Amarillo, Texas.

ROBERT M. YOUNG, '33, is an executive of the Robert M. Young Co., Milwaukee. He lives in Wauwatosa, Wis.

UTAH

A LAWRENCE A. ANDERSON, '18, is retired as an associate engineer after 37 years with Utah Power & Light Co., Salt Lake City, Utah.

WALLACE L. SMITH, '30, is president of Enoch Smith Sons Co., contractors in Salt Lake City.

RUSSELL H. MADSEN, '37, is a manager for Northem Construction Co. and J. W. Stewart Ltd. He lives in Bellevue, Wash.

FRED RASMUSSEN, JR., '38, is a watershed planning specialist for the USDA Soil Conservation Service in Portland, Ore.

DR. FREDERICK D. CORTNER, '41, is dean of student affairs at Pembroke State College, Pembroke, N.C.

V. R. GILSON, '48, is a civil engineer with Cannon Papanikolas Construction Co., Salt Lake City.

GORDON L. GOTTSSTEIN, '49, is an engineering designer for the Boeing Co., Kent, Wash. He lives in Bellevue.

WALTER E. FURER, '57, is a civil engineer on the Staff for Career Development of the U.S. Forest Service, Washington, D.C. His home is in Annandale, Va.

FREDERICK L. SCHOLES, '61, is a branch sales manager for the Electronic Instrument Division of Beckman Instruments, Inc. He lives in Pleasanton, Calif.

MELVIN E. FRANZ, '62, is an assistant civil engineer for San Diego County. He lives in Del Mar, Calif.

J. MARVIN HESS, '63, is an engineer-in-training with the Idaho Department of Highways. He lives in Rupert, Idaho.

RICHARD H. SIMONS, '67, is an industrial engineer for Kennecott Copper Corp., Salt Lake City, Utah.

ALABAMA

M Members of Mu Chapter provide the majority of leadership in the College of Engineering at Alabama. W. EDWARD LEAR, '42, is dean of the college, and ROY W. KILLINGSWORTH, '48, is associate dean. Heading departments are PROF. ORIS P. McDUFFY, '52, Electrical Engineering; WARREN G. KEITH, '54, Civil Engineering; and DR. WILLIAM D. JORDAN, '42, Mechanical Systems Engineering. PROF. WILLIAM K. REY, '45, is chairman of the Aerospace Engineering Program and director of the Solid Mechanics Division. In addition, WILLARD F. GRAY, Hon. '34, is assistant vice president for administra-

THE GEAR OF THETA TAU

tion and GEORGE T. DRIVER, '40, is assistant University attorney and land commissioner.

PAUL MEREDITH SPEAKE, '27, is a partner in the firm of Davis, Speake & Associates, architects, in Birmingham, Ala.

ANDREW A. FARRELL, '33, is vice president of Mohl Chemical Co. He lives in St. Michaels, Md.

VARLEY H. GRANTHAM, '35, is president of Grantham Distributing Co., Inc., Orlando, Fla. He lives in Winter Park, Fla.

DONALD D. MERRILLAT, '35, is now retired. He was a service engineer in the Industrial Finishes Division of E. I. du Pont de Nemours, Inc. He lives in Redwood City, Calif.

ARTHUR B. HARRIS, JR., '36, is a sales manager with American Enka Corp., Asheville, N.C.

CHARLES H. COLEMAN, '39, is employed in the Missiles and Space Division of LTV Aerospace Corp. in Dallas, Texas.

FRANK B. STICKNEY, '39, is president of Stickney Construction Co., Inc., McComb, Miss.

J. R. JOHNSON, '40, is a project engineer with the Fort Worth Division of General Dynamics in Fort Worth, Texas.

PETER G. PRATER, '40, is vice president of Chemtex, Inc., New York City. His home is in Chappaqua, N.Y.

JAMES C. BUTLER, '41, is an agent for Equitable Life of New York. He lives in Huntsville, Ala.

K. G. ACKERMANN, '43, is the chief mechanical engineer of the Rust Engineering Co., Birmingham, Ala.

GEORGE E. DAILEY, JR., '43, is district manager for General Electric Co. in Birmingham, Ala.

MICHAEL DITORO, '43, is a material handling specialist with General Electric Co. in Schenectady, N.Y.

COL. FELIX B. MOSS, '43, is chief of the construction Branch, Engineering Division, USCONARC. He is located at Fort Monroe, Va.

DR. FRED D. STOCKTON, '43, is an associate professor of civil engineering at the University of Massachusetts, Belchertown, Mass.

DAN A. YOUNG, '43, is a program staff assistant in the Undersea Division of Westinghouse in Annapolis, Md. He lives in Severna Park, Md.

RICHARD MORSE, '44, is an instrument engineer in the Engineering Department Design Division of E. I. du Pont de Nemours & Co., Newark, Del.

GEORGE I. PERRYMAN, '44, is president of the Mid-Continent Engineering Co., Springfield, Mo.

LOUIS H. PFYAU, '44, is president of Signal Engineering & Sales, Inc., Birmingham, Ala.

HOWARD D. BURNS, '46, is chief of the Saturn V Test Management Office at NASA's Marshall Space Flight Center, Ala. He lives in Athens, Ala.

JAMES R. HUMPHRIES, '46, is employed by Bechtel Corp., San Francisco, Calif.

LT. COL. GEORGE E. HOMICH, '47, was awarded the U.S. Air Force Commendation Medal at Travis AFB, Calif., where he is now stationed. He was honored for meritorious service while stationed at Scott AFB, Ill.

LESLIE C. LONGSHORE, JR., '47, is an instructor of English at Jefferson State Junior College in Birmingham, Ala. He is also the tennis professional at the Country Club of Birmingham. Brother Longshore is active in the professional tennis organization, USPLTA, and is a member of its Executive Committee and head of the Research and Planning Committee.

DR. CHARLES N. MAXWELL, '48, is professor of mathematics at Southern Illinois University, Carbondale, Ill.

A. WADE BLACKMAN, '49, is manager of hypersonic propulsion at the Research Labs of United Aircraft Corp., East Hartford, Conn. He lives in Hartford.

HILTON D. LOGAN, '49, is vice president and general sales manager of Builders Manufacturing Co., Birmingham, Ala.

WILLIAM B. SPEIR, '49, is employed by the Rust Engineering Co., a division of Litton Industries, in Birmingham, Ala.

CHRISTOPHER C. BAILEY, JR., '50, is the engineer in charge of construction for the International Paper Co. in Camden, Ark.

REMO J. CARBONI, '50, is an aero engineer scientist specialist for McDonnell Douglas in Culver City, Calif. He lives in Marina Del Rey, Calif.

HOWARD S. MANON, '50, is the generation sales engineer in the Southwest District for General Electric Co., Houston, Texas.

EWELL B. MEADOWS, JR., '50, is employed by I.R.F. Matrazzo as Gerente-Produtor, Divisao Papel e Papelao. He lives in Sao Paulo, Brazil.

JAMES C. SPINKS, '50, is a division engineer with E. I. du Pont. He lives in North Augusta, S.C.

LONNIE N. MCCLOSKEY, '51, is a physical research scientist with the U.S. Army Missile Command at Redstone Arsenal. His home is in Toney, Ala.

VANN YORK, '51, is a regional sales manager for John Motifell Co. He lives in Dallas, Texas.

DuVAL H. EASLEY, '52, is president of Reynolds-Easley Manufacturing Co., Aston, Va. He lives in Collinsville, Va.

HENRY P. FELL, '52, is a project aerosystems engineer with General Dynamics Corp. He lives in Fort Worth, Texas.

FALL 1968

G. R. KILPATRICK, '52, is self employed in Eutaw, Ala.

MILES C. STEPHENS, '53, is vice president for operations of Ross Meehan Foundries. He lives in Chattanooga, Tenn.

WILLIAM R. CURRIER, '54, is manager of the Coil Departments of Bryant Manufacturing Co. in Indianapolis, Ind.

KENNETH O. HUNTER, '54, is plant manager for Vanity Fair Mills, Inc. He lives in Milton, Fla.

FRANK W. McABEE, JR., '54, is a senior marketing engineer with Pratt and Whitney. His home is in Lake Park, Fla.

ROBERT A. MOORE, '54, is manager of solid state microwave technology for Westinghouse Electric Corp. in Baltimore, Md.

DONALD D. SNYDER, '54, is a project development engineer with the McDonnell Douglas Corp. in St. Louis. He lives in Florissant, Mo.

KYLE S. DRAKE, JR., '55, is self employed in a plumbing, heating, and air conditioning business in Opelika, Ala.

C. W. MORRIS, '55, is in government marketing for Pratt & Whitney Aircraft Co. He lives in West Hartford, Conn.

WALLACE E. JORDAN, '56, is a project engineer at the Marshall Space Flight Center in Huntsville, Ala.

JERRY C. BATES, '56, is a system project engineer for Honeywell Inc., in Minneapolis, Minn.

WAYNE T. MOWE, '56, is a project leader-development with the Textiles Division of the Monsanto Co. He lives in Pensacola, Fla.

TOMMY G. TAYLOR, '56, is the general foreman of the Perchlor-Trichlor Plant of PPG Industries in Lake Charles, La.

F. MAX CROFT, '57, is a senior project engineer in the Management Systems Office of the Marshall Space Flight Center in Huntsville, Ala.

DR. GEORGE W. DOUGLAS, JR., '57, assistant professor of mechanical engineering at the University of Alabama, has taken a leave of absence to serve as head of the Mechanical Engineering Department of the College of Petroleum and Minerals, Dhahran, Saudi Arabia. With his wife and four sons, Brother Douglas toured Great Britain, Scotland, Europe, and the Middle East before arriving in Dhahran.

CLARENCE E. HERRIN, '57, is a construction engineer with E. I. du Pont. He lives in Camden, S.C.

JAMES W. NEAL, '57, is chief of the Plant Management Division, Wilford Hall USAF Hospital, Lackland AFB, Texas. He lives in San Antonio.

J. A. BRYANT, '58, is a staff engineer for Martin Marietta Corp., Orlando, Fla.

GEORGE R. DiGiorgio, '58, is a design engineer unit supervisor for Chrysler Corp. in Merritt Island, Fla.

JOHN B. DUKE, III, '58, is a staff engineer with Martin Marietta Corp. in Orlando, Fla.

TERRENCE B. WYATT, '58, is manager of the Gulf Engineering and Marine Corp. in Panama City, Fla.

BRECKENRIDGE B. A. ROGERS, JR., '59, is the assistant county engineer for Greene County, Ala. He lives in Eutaw, Ala.

WRIGHTS M. TAYLOR, JR., '59, is a performance engineer with United Air Lines. He lives in San Mateo, Calif.

JAMES L. WOODWARD, '59, is a senior manufacturing engineer for General Electric Co. in Philadelphia. His home is in Chester, Pa.

PROF. ELIAS R. CALLAHAN, JR., '60, is head of the Department of Computer Science and Business Data Processing at Chattanooga State Technical Institute, Chattanooga, Tenn. He is now on leave of absence to work toward his Ph.D. at the University of Alabama.

A. E. McCASKEY, '60, is lead systems design engineer for LTV Electrosystems, Inc., in Dallas. He lives in Richardson, Texas.

THOMAS E. COOK, '61, is a sales engineer with the Tyne Co. He lives in Pensacola, Fla.

CARL M. DAVID, '61, is a senior engineer for NASA in Huntsville, Ala.

SAMUEL I. GILFAIR, '62, received the master of industrial engineering degree from the Polytechnic Institute of Brooklyn in June 1967. He lives in Brooklyn, N.Y.

GLENN E. JONES, '62, is a compounder with Good-year in Topeka, Kans.

WILLIAM H. LAWLER, '62, is a research engineer with the Boeing Co. He is living in Huntsville, Ala.

WILLIAM E. MORELEV, '62, is a civil engineer with the Dallas Concrete Pipe Co., Inc. in Selma, Ala.

JAMES M. LAWRENCE, '63, is an associate structural engineer with Hudson, Wright & Associates in Duthan, Ala.

LEON M. VICK, JR., '63, is a systems engineer with TRW, Inc. He is building a new home in Houston, Texas.

HARVEY M. DONALDSON, '66, is employed by the International Paper Co. in Mobile, Ala.

RONNIE C. JUSTICE, '66, is an associate research engineer with the Boeing Co. in Huntsville, Ala.

JON R. SULLIVAN, '67, married Miss Patricia Lemonds in Kennett, Mo. on August 24.

THE GEAR OF THETA TAU

EDWARD B. DOCKERY, JR., '68, is a field junior engineer for Schlumberger Well Service in Lake Charles, La.

L.T. STANLEY B. JACKSON, '68, has completed an engineer officer course at the Army Engineer School at Fort Belvoir, Va.

SAMMY J. SEALS, '68, is employed by the Ethyl Corp. in Baton Rouge, La.

CARNEGIE TECH

N DR. JOHN M. DANIELS, Hon. '22, was awarded the Order of the Golden Star by Theta Xi Fraternity.

THOMAS F. BRANTOW, '27, is product manager of the Industrial Packaging Department of the American Viscose Division of FMC Corp., Philadelphia. He lives in Villanova, Pa.

GEORGE M. WILE, '29, has been appointed senior vice president of Arkwright-Boston Insurance in Waltham, Mass., the new company of the recently merged Arkwright Mutual of Boston and Boston Manufacturers Mutual of Waltham.

H. RUSSELL LEXTERMAN, '30, is retired from Blaw-Knox Co., Pittsburgh, Pa.

JAMES H. DODGE, '31, has been promoted to the office of assistant vice president of sales, Latrobe Steel Co., Latrobe, Pa. Formerly he was general sales manager. Brother Dodge is president of the Ligonier, Pa. chapter of the American Field Service, a member of the board of trustees of Alderson-Broadbent College, and a director of the Ligonier Valley Chamber of Commerce.

WILLIAM J. HAGENLOCHER, '32, is office engineer for the Portland Cement Association in Columbus, Ohio.

JOHN M. HARVEY, '34, is plant accounting section supervisor for Consumers Power Co., Jackson, Mich.

HARRY A. MCCULLOUGH, '35, is head of the Auxiliaries and Reliability Section of the Propulsion Division of the Naval Air Systems Command in Washington, D.C. He lives in Alexandria, Va.

WALTER F. AFFLEGATE, '36, is an engineering specialist for Hercules, Inc., Wilmington, Del.

H. A. BACKSTROM, '37, has been promoted to vice president and chief contract officer of Struthers Wells Corp., one of the main fabricators of process equipment in the country. Brother Backstrom lives in Warren, Pa.

GEORGE O. N. REED, '43, is assistant manager of Vibroflotation Foundations Co., Pittsburgh, Pa.

WILLIAM B. SKELTON, '47, is a senior engineer with E. I. du Pont de Nemours & Co. in Wilmington, Del.

WISCONSIN

E ROBERT O. SCHENDELHOLZ, '46, is a district engineer for the Division of Highways of the Wisconsin Department of Transportation. He lives in Rhinelander, Wis.

PAUL L. COWAN, '52, is sales manager for E. I. du Pont de Nemours in Charlotte, N.C.

DAVID C. JEFFERYS, '53, is a materials specialist for General Electric's Missile and Space Division in King of Prussia, Pa. He lives in Berwyn.

HENRY A. WEIDMANN, '60, is a process engineer for Honeywell, Inc. in Minneapolis. His home is in Minnetonka, Minn.

GARY G. BRAUN, '65, is a stress engineer for Martin-Marietta in Denver. He lives in Littleton, Colo.

LT. DAVID D. KRUEGER, '65, is a member of the 49th Tactical Fighter Wing at Spangdahlem Air Base, Germany. His unit has earned the U.S. Air Force Outstanding Unit Award.

DENNIS R. ROSETH, '66, is a graduate student at the University of Wisconsin.

KENNETH H. VOIGT, '66, has resigned his commission as a Lt. (j.g.) in the Coast & Geodetic Survey and is now working for the Wisconsin State Highway Commission in Milwaukee. He lives in Wauwatosa, Wis.

THOMAS F. SCHUPPE, '67 has been commissioned a second lieutenant at Lackland AFB, Texas. He was assigned to Webb AFB, Texas for pilot training.

WILLIAM F. PFIEFFER, '68, is an estimator for the Nika Corp., Madison, Wis.

IOWA

O PAUL L. MEISER, '21, is retired from Union Electric Co., Keokuk, Iowa.

EMIL H. RAUCH, JR., '31, is chief of the Program Development Branch, Engineering Division, Rock Island District, for the Corps of Engineers in Rock Island, Ill.

DR. H. S. SMITH, '35, is dean of the College of Engineering of the University of Idaho, Moscow, Idaho.

JAMES W. BOWMAN, '40, is chief of the Water Quality Branch, U. S. Bureau of Reclamation in Denver. He lives in Littleton, Colo.

COL. GEORGE W. LUTZ, '42, is chief of the Acquisition Test Division at Headquarters, U.S. Air Force in Washington, D.C. His home is in North Springfield, Va.

RICHARD A. PARAMORE, '51, is a group engineer for Packaging Corp. of America, North Kansas City, Mo. He lives in Shawnee Mission, Kans.

FALL 1968

VERN HALVERSON, '52, is a project manager for S. J. Groves & Sons Co., Springfield, Ill.

RALPH I. CLAASSEN, '55, has been promoted to vice president and production manager for Hiram Walker & Son, Inc., Peoria, Ill.

RICHARD W. HOOVER, '55, is administrative assistant to the chief engineer at the Barberton Plant of PPG Industries in Barberton, Ohio.

GEORGE L. HANSKE, '56, is a civil engineer for the State of Wisconsin. He lives in Verona, Wis.

TERRY FISHER, '57, is assistant superintendent for Western Electric in Omaha, Nebr.

CHARLES H. BLUNT, '59, is president of the Continental Bank of Continental, Ohio.

PAUL F. MORGAN, '59, is a patent attorney for Lockheed Missiles & Space Co., Sunnyvale, Calif. He lives in Palo Alto, Calif.

RONALD V. YAGOV, '59, is a project engineer for Wallace Holland Kastler & Schmitz in Rochester, Minn.

C. P. GILLESPIE, '64, is a sales representative for Goodyear's Industrial Products Division. He lives in Cedar Rapids, Iowa.

SCOTT M. BAILEY, '66, is assistant building superintendent for Dow Corning Corp., Midland, Mich.

JOSEPH R. MCWIGGIN, '66, is a project engineer for Procter and Gamble Co., Cincinnati, Ohio.

W. H. ZAGER, '66, is a chemical engineer for Corn Products Co., Argo, Ill. He lives in Worth, Ill.

VIRGINIA

I

HOWARD B. EDWARDS, '36, is chief of the Instrument Research Division at NASA's Langley AFB, Hampton, Va.

LINWOOD A. LACY, '45, is self employed in Charlottesville, Va.

MAJOR ROGER M. MILLAR, '57, is now project engineer, Canal Widening Project in the Panama Canal's Construction Division. He had been chief of the Engineering Applications Branch of the Quality Assurance Engineering Division for the Defense Contract Administration Services in Atlanta, Ga. He and his wife have three sons.

TAYLOR F. TURNER, JR., '57, is a civil engineer for R. Stuart Royer & Associates, Richmond, Va.

MAJOR JACK H. GRIFFITH, JR., '60, is attending the U.S. Army Command and General Staff College at Fort Leavenworth, Kans.

DR. JOSEPH G. PAYNE, '61, is a member of the technical staff of Aerospace Corp., Los Angeles. He received his Ph.D. from Purdue University in August 1967. Brother Payne lives in Torrance, Calif.

ROBERT L. MITCHELL, '63, is a structural engineer for the Veterans Administration, Arlington, Va.

RONALD BOWMAN, '66, DANIEL QUERG, and HARRY ROBERTSHAW are among the graduate students helping to develop a reading machine for the blind which can scan printed material and translate it into either Braille symbols or spoken letters. Brother Bowman helped to design and build the electrical parts of the machine. Brother Quigg built the print scanner, and Brother Robertshaw developed a tiny tape recorder in which the sounds of all the letters in the alphabet are stored. Brother Bowman was married in August to Miss Sandra Flint of Cohasset, Mass.

NORTH CAROLINA STATE

P FRED C. DAVIS, '28, is vice president and general manager of Newport News Shipbuilding & Dry Dock Co., Newport News, Va.

W. TILFORD SMITH, '29, was presented the Centennial Medallion of Hampton Institute.

LELAND G. ATKINSON, JR., '33, works engineer for the Standard Control Division of Westinghouse Electric Corp., was named "Engineer of the Year" by the Beaver County Chapter of the Pennsylvania Society of Professional Engineers. He joined Westinghouse in 1933, and has been with the company since then, except for service in the Navy in World War II. He is a member of AIEE, and serves on the board of directors of Rotary and Fort McIntosh Club. Brother Atkinson and his wife have a son and a daughter.

JAKE A. ROYAL, '33, is a designer for Newport News Shipbuilding and Dry Dock Co., Newport News, Va.

JAMES F. KELLY, '43, president of Aeroglide Corp., was named the Distinguished Engineering Alumn-



James F. Kelly (right) received the Outstanding Engineering Alumnus Award from Dean Fadum.

THE GEAR OF THETA TAU

mus of North Carolina State for 1968. Brother Kelly became president of Aeroglides when he was 33, and has built the company to well over one million dollars a year in sales. He is a member of the Young Presidents Organization, is on the Advisory Board of the North Carolina Science and Technology Utilization Board, and serves his alma mater in several capacities.

JAMES E. DEAS, JR., '46, is technical superintendent of the Oxford Plant of Hercules, Inc., manufacturing polypropylene fibers. He lives in Covington, Ga. Brother Deas was recently elected vice president of the Covington Lions Club, and attended the Lions convention in Dallas. His daughter Janice was an honor graduate from high school, and his son Edward recently won the Jaycee golf tournament. His other son is Tommy.

PAUL L. LOVINGTON, '50, is manager of aircraft engine marketing for AVCO Lycoming Division of AVCO Corp. in Stratford, Conn.

HENRY C. QUAY, '52, is a group engineer for Lockheed in Marietta, Ga. He lives in Dunwoody, Ga.

GEORGE F. REEDMAN, '54, is doing real estate development in Alameda, Calif.

DR. JOSEPH PEARSON, '56, is an assistant professor at Purdue University, West Lafayette, Ind.

MAJOR INGRAM B. McLEOD, '60, is serving with the U.S. Army at Long Binh, Vietnam.

JAMES A. HACKNEY III, '61, executive vice president and general manager of J. A. Hackney & Sons, has been named one of the "Outstanding Young Men of America."

WILLIAM W. HOPPER, JR., '61, is assistant plant engineer for the Karastan Rug Division of Fieldcrest Mills, Eden, N.C.

CHARLES A. STONE, '61, is an engineering supervisor for Western Electric Co., Burlington, N.C.

BURNELL P. CURTIS, '63, is a chemical engineer with Monsanto in Texas City, Texas. He lives in Dickinson, Texas.

CAPT. RICHARD C. PANCHALL, JR., '65, was recently promoted to captain in the U.S. Air Force. He is a member of the Air Force Systems Command at Brooks AFB, Texas.

RICHARD C. CHANDLER, '68, is a junior engineer for IBM. He lives in Winston-Salem, N.C.

CHARLES E. FULTON, '68, is an engineer for Western Electric in Winston-Salem. He lives in Walkertown, N.C.

OHIO STATE

Σ PERCY W. OTT, Hon. '17, is professor emeritus of engineering mechanics at Ohio State. He served 10 years as an underwater sound and vibration specialist for the U.S. Navy. He is now retired and living in Baton Rouge, La.

ERNEST F. KEYSERLEHER, '24, is retired; he lives in Richmond Heights, Ohio.

ALVIN M. MOCK, '27, is a partner in the consulting firm of Havens and Emerson. He lives in Fairview Park, Ohio. Brother Mock is a member of the Rotary Club of Cleveland, Masonic orders, and on the Official Board of the Lakewood Methodist Church.

E. L. SPENCER, '47, is a design specialist for Lockheed Missiles & Space Co., Sunnyvale, Calif. He lives in Santa Clara, Calif.

RAYMOND C. WARREN, '50, is manufacturing manager for Stelzema Corp., La Porte, Ind. His home is in Michigan City, Ind.

ROBERT W. SCHNABEL, '54, is manager of industrial engineering for Federal-Mogul Corp., Bower Division. He lives in Macomb, Ill.

CHARLES F. GILCHRIST, '56, is an engineering supervisor for the Boeing Co. at the Kennedy Space Center. He lives in Merritt Island, Fla.

FRED H. IRONS, '56, is assistant professor of electrical engineering at the University of Maine, Orono, Maine.

CAPT. HERBERT L. RUNAKOFF, '59, is at the Army Modification Center, Lima, Ohio.

CAPT. ANTOINE W. HAGEN, '62, has completed his 100th combat mission over North Vietnam. He was an F-4 Phantom navigator with the 11th Tactical Reconnaissance Squadron at Udorn Royal Thai AFB, Thailand. He was reassigned to Wiesbaden Air Base, Germany.

THOMAS D. SINGER, '63, is a research engineer for Lockheed Missiles & Space Co., Sunnyvale. He lives in Mountain View, Calif.

JAMES DAPOR, '66, is a manufacturing engineer with Westinghouse AED in Lima, Ohio. He lives in Versailles, Ohio.

1/Lt. DONALD E. SIELY, '66, is at the Satellite Test Center in Sunnyvale, Calif. He lives in San Jose, Calif.

DIETRICH H. LANNERT, '68, is an industrial engineer for Eastman Kodak Co., Rochester, N.Y.

SYRACUSE

T ROBERT H. HUGHES, '25, is vice president for engineering of Petrocarb Inc., New York City. He lives in Glen Ridge, N.J.

EDMUND S. REYNOLDS, '26, is retired as senior engineer for Mobil Oil Corp. He is living in Sun City, Ariz.

B. D. BLOSER, '31, is manager of manufacturing for Continental Can Co., Atlanta, Ga.

OTTO H. PETERS, '32, is principal power engineer for Allied Chemical Corp., Morristown, N.J.

CAPT. V. RALPH SOBIERALSKI, '31, has been named acting associate director for geodesy and photogrammetry of the Coast and Geodetic Survey. Brother Sobieralski will retire November 30, and will continue until that time in his post as chief of the Photogrammetry Division. He lives in Bethesda, Md.

WILLIAM C. JOSLYN, '39, is a management engineer with Merle Thomas Corp., Kensington, Md. He lives in Arlington, Va.

MANFRED D. CLAYTON, '40, is a research associate at the University of Rhode Island, Kingston, R.I.

ALAN C. LEWIS, '47, is plant manager for Atwood Vacuum Machinery Co., Havana, Ill.

DR. JOHN S. HOYT, JR., '48, is an associate professor at the University of Minnesota. His home is in Edina, Minn.

DR. JOHN F. McLAUGHLIN, '48, has been named head of Purdue's School of Civil Engineering and director of the Joint Highway Research Project, a cooperative effort between Purdue and the Indiana State Highway Commission. Brother McLaughlin is an authority on construction materials.

ROBERT J. SPARLING, '48, is manager of marketing and technology for Brush & Lomb, Inc., in Rochester, N.Y.

NEAL HUNTER, '49, is president of Paston-Hunter Co., Inc., Syracuse. He lives in Dewitt, N.Y.

MANUEL INGALLINERA, '49, is senior process engineer for Allied Chemical Corp., Geismar, La. He lives in Baton Rouge.

JOHN F. DIAZ, '53, director of contracts/material for Space Systems Laboratory, Melbourne, Fla., has been elected an international director of Toastmasters International. He was district governor of Florida for Toastmasters in 1965.

MAJOR GEORGE B. KELLER, '56, is attending the U.S. Air Force Air Command and Staff College at Maxwell AFB, Ala. He has completed a tour of duty in Southeast Asia.

FREDERICK W. BOECHER, '68, is a graduate student at Syracuse University.

JAMES G. HUGHES, '68, is a laboratory technician in the Experimental Department of the Porter Cable Division of Rockwell Manufacturing, Syracuse, N.Y.

ARKANSAS

Y JAMES F. FONDREN, '30, is a cartographer with the Soil Conservation Service in Hyattsville, Md. He lives in Silver Spring, Md.

ROY W. SOUTHERLAND, '33, is president and owner of Southard Engineering Co., Inc., in Springfield, Mo.

R. E. LEGGETT, '43, is a senior engineer with C. F. Braun & Co., Alhambra, Calif. His home is in Pasadena, Calif.

HOWARD T. BONDS, '45, is a planter, rancher, machinery dealer, and ginmer in Clarksdale, Miss.

JAMES O. BROWN, '45, is chief product engineer for National Tank Co., Tulsa, Okla.

JOHN G. RAGSDALE, '46, is a petroleum engineer for Monardo Co., Houston, Texas.

L.T. COL. HAROLD T. HAMILTON, '49, has received the Bronze Star Medal at Offutt AFB, Nebr. He was decorated for meritorious service while in Vietnam.

RALPH L. STEWART, '49, chief of estimating, specifications, facilities planning, and scheduling for the Martin Co. of Denver, has been elected executive vice president of the American Association for Contamination Control.

BOB E. HILL, '50, is a division engineer for Arkansas Power & Light Co., Harrison, Ark.

DR. JOHN P. SANDERS, '50, is a research staff member at the Oak Ridge National Laboratory operated by Union Carbide Corp. He lives in Oak Ridge, Tenn.

RAYMOND BRANTON, '51, is self employed as an architect in Little Rock. He lives in North Little Rock, Ark.



Major James F. Koonce, Arkansas '52 (left) was decorated with his second award of the Distinguished Flying Cross at Wright-Patterson AFB, Ohio, for heroism in military operations in Southeast Asia. Brother Koonce has been selected for promotion to lieutenant colonel. He is serving as a data automation officer at Wright-Patterson.

ALFRED E. JOHNSON, Hon. '54, is executive director of the American Association of State Highway Officials. Brother Johnson is a former chief engineer of the Arkansas State Highway Department and is listed in *Who's Who*. He lives in Falls Church, Va.

THE GEAR OF THETA TAU

JAMES H. STEWART, '54, is president and co-owner of the Ozark Steel Co., Fayetteville, Ark.

JOHN A. RIGGS III, '57, is vice president of J. A. Riggs Tractor Co., Little Rock, Ark.

STANLEY P. WILLIAMS, '57, is district plant supervisor for American Telephone & Telegraph Co. in Salt Lake City, Utah.

O. LEE FLETCHER, '58, has been promoted to director of quality assurance for Lockheed Electronics Corp. in Plainfield, N.J. He had been Quality Engineering Department manager for Lockheed-Georgia Co. in Marietta, Ga. Brother Fletcher lives in Belle Mead, N.J.

ROBERTO STADTHAGEN, '60, is plant manager for Cafe Soluble, S.A. in Managua, Nicaragua.

ROBERT L. HOLYFIELD, '64, is an engineer with Celanese Corp. in Nantow, Va. He lives in Pearisburg, Va.

CHARLES F. MAYFIELD, '64, is statistical staff supervisor for AT&T Long Lines in New York City. He lives in Ridgefield, N.J.

JOHN J. BURNS, '66, is a facilities engineer for McDonnell Astronautics Co., Florida Division. He lives in Titusville, Fla.

CAPT. GUS M. VRATNINAS, '67, is a sanitary engineer with the 8th U.S. Army, Korea.



Gus M. Vratninas (left) was congratulated by Col. Richard E. Eddleman as he was promoted to captain at Fort Sam Houston, Texas.

CLYDE W. CHAFFEN, '68, is a junior engineer in the Systems Division of Collins Radio Corp., Dallas, Texas.

PURDUE



PAUL W. BARTHOLOMEW, '30, is area representative (British Columbia and Alaska) for Buckman Laboratories of Canada Ltd. He lives in Nanaimo, B.C.

HARRY A. WEGLENSKI, '42, is sales manager of the Transportation Division of MLW-Worthington in Montreal, Quebec.

EUGENE W. CHRISTEN, '48, is a patent attorney for General Motors Corp., Detroit. He lives in Birmingham, Mich.

JOHN J. RADOS, '49, is assistant division superintendent for the Gary Steel Works of U.S. Steel Co., Gary, Ind.

MAURICE R. HALSEY, '53, is president of the Halsey Corp. of Middletown, Ohio, and the General Computer Service Corp., Arlington, Va. He lives in West Lafayette, Ind.

DR. C. H. TREAT, '53, is assistant professor of engineering science at Trinity University in San Antonio, Texas. He completed his Ph.D. degree at the University of New Mexico in January.

JAMES N. DRESSER, '59, is with a patent law firm in Washington, D.C. His home is in Fairfax, Va.

ROGER L. PARK, '59, is a self employed consultant in Indianapolis, Ind.

STAN HOOLEY, '64, is a marketing engineer for Cooper-Bessemer Corp., Mt. Vernon, Ohio.

DR. ALLAN E. HERRAR, '65, is a post-doctoral research fellow at Tennessee Tech. He is studying interaction between intense acoustic fields and viscous fluid flows.

ROBERT B. TARKE, '67, is an associate engineer for IBM Corp. in Menlo Park, Calif. He lives in Mountain View, Calif.

ARIZONA

X LOUIS O. FISCEL, '26, is president and manager of civil engineering for Asphalt Products Transport Co., Inc. He lives in Tucson, Ariz.

JACOB ERICKSON, '31, is assistant division engineer and engineering coordinator for the U.S. Bureau of Public Roads, Phoenix, Ariz.

A. JAY MEDFORD, '39, has been promoted to division engineer for the Iowa Division, Bureau of Public Roads, Ames, Iowa. He had been regional right-of-way engineer in Homewood, Ill.

COR. ROBERT H. EPLEY, '42, is a cost analyst at the Center for Naval Analyses, University of Rochester, in Arlington, Va. He lives in Springfield, Va.

WILLIAM I. TIZARD, '42, is general manager of the Reinforced Steel Division of Roppel Steel & Supply Co., Phoenix, Ariz.

LAWRENCE E. BELL, '49, is executive vice president—marketing for General Electric Co. of Spain in Madrid.

CHARLES F. STANLEY, '49, is mill superintendent for Kerr McGee Corp. in Grants, N.M.

HARRY H. HAAVERSEN, '51, is vice president of F. T. Andrews Inc., in Fullerton, Calif. He lives in Buena Park, Calif.

FRED R. SARGENT, '51, has been promoted to Western sales manager by the Marion Power Shovel Co., Inc. His office is in Phoenix, Ariz. He had been Southwest regional sales manager. Brother Sargent lives in Scottsdale.

NELSON SEVERINGHAUS, JR., '51, is vice president of the Georgia Marble Co., Gantt's Quarry, Ala.

E. N. TORGERSEN, '51, is chief engineer for the Moly Corp., Questa, N.M. He lives in Taos.

PHILIP A. ROSS, '55, is head of the nonferrous metals & minerals, Department of Trade and Commerce, Ottawa, Ontario.

DAVID A. PRENCE, '59, is a senior engineer for Martin-Marietta Corp., Denver. He lives in Littleton, Colo.

LEE C. BODENHAMER, '60, is a senior design engineer with Ryan Aeronautical Co., San Diego, Calif.

MILTON HARDYCK, '60, is a project engineer for Varian Associates, Palo Alto, Calif. His home is in Mountain View, Calif.

ED WESTALL, '60, is a project engineer for Gordon H. Ball Inc. on the construction of the Balboa Park Station project for the Bay Area Rapid Transit in San Francisco, Calif.

JOE RICCIO, JR., '61, is assistant product manager for Motorola SFD in Phoenix. He lives in Mesa, Ariz.

CAPT. THOMAS R. LANGE, '63, has graduated from the Air University's Squadron Officer School at Maxwell AFB, Ala. He was reassigned to Ent AFB, Colo. as a staff scientist.

ROBERT M. RICE, '64, is a plant engineer for the Salt River Project in Phoenix. He lives in Tempe, Ariz.

MAURICE C. FREE, '65, is a senior project engineer for Motorola SFD Analog/Digital Interface Systems. He is doing integrated circuits research and development. Brother Free lives in Tempe, Ariz., with his wife and two children.

LT. JOHN E. ARNOLD, '67, has graduated from pilot school at Laredo AFB, Texas, and is now at Stewart AFB, Tenn. He is assigned to Ching Chuan Kang Air Base, Taiwan, for flying duty in December.

ROBERT W. AULT, JR., '67, is head of geology instruction in the new middle school specialized science program in Hammond, Ind. He and his wife are parents of their first child, David Lewis Ault, born March 27, 1968. They live in Munster, Ind.

BRUCE W. FARMER, '67, is a programmer/analyst for TRW Systems Group, Redondo Beach, Calif. He lives in Torrance, Calif.

ENS. JOHN O. WHISTLER, '67, is a recent graduate of the Coast Guard OCS. He is now stationed in the Marine Inspection Office in New Orleans, La.

KARL W. SCHADE, '68, is working for his Ph.D. at the University of Arizona.

DONALD M. STEINWACHS, '68, is a graduate student at the University of Arizona.

MONTANA TECH



A. J. RAMBOSEK, '37, is an industrial safety engineer at the Nevada Test Site Support Office of the U.S. Atomic Energy Commission at Mercury, Nev. He lives in Las Vegas.

DR. ALBERT W. SCHLEICHTEN, '37, is now vice president for academic affairs of the Colorado School of Mines. He had been head of the Department of Metallurgical Engineering.

JOSEPH W. PICKARD, '41, is president of Ingersoll-Rand Philippines, Inc. He lives in Makati, Rizal.

GEORGE L. WILHELM, '50, is manager of the Mayflower Mine for Hecla Mining Co., Heber City, Utah.

RICHARD L. CONNER, '62, is selling securities in Costa Mesa, Calif.

KENNETH ARNE, '64, is a graduate student at Stanford University.

BRIAN J. BOYLE, '64, is a metallurgical engineer for Reynolds Metals Co. He lives in Longview, Wash.

TERRENCE J. ANGOVE, '68, is an associate engineer for Continental Oil Co. in Ventura, Calif.

RICHARD BENNETT RULE, '68, is an associate research engineer at Montana Tech.

SOUTH DAKOTA TECH



REX TARD, '32, is plant engineer for Homestake Mining Co., Lead, S.D.

HENRY SCHIFFKE, '35, has been elected president of the SDSM&T Alumni Association. He is president of Henry Schipke and Associates, a consulting engineering firm in Minneapolis, Minn.

W. S. HANNA, JR., '43, is a metallurgist for Phelps Dodge Corp., Bisbee, Ariz.

C. A. DICKEY, '44, is founder and president of Forex Materials Corp. in Fairburn, Ga. The firm is producing over 500,000 porous plastic pen tips each day, and supplies approximately 40 per cent of the U.S. market. The company and its affiliate, Southeastern Precision Forge Corp., recently had open house of their new 28,000 square foot facility. Brother Dickey is also a director of Glasrock Products, Inc. He and his wife have four daughters.

RICHARD E. COLE, '47, is general manager of the Reduction Division of Reynolds Metals Co., Richmond, Va.

AL SCHMIDT, '49, is president of Northwestern Public Service Co., with general offices in Huron, S.D. The utility serves eastern South Dakota and

THE GEAR OF THETA TAU

Nebraska. Brother Schmidt has held this position since 1965. He is a member of numerous business and civic organizations, and is a past president of the Midwest Gas Association. He and his wife have two daughters.

ALVA L. DOUGAL, '50, is a civil-sanitary engineer with Hemmingson, Durham & Richardson, Inc., Dallas. He lives in Plano, Texas.

HANS M. JENSEN, '50, is a hydrologist with the U.S. Geological Survey. He lives in Kings Park, N.Y.

A. D. JUBBENS, '50, is plant manager for General Electric Co. in Seattle. He lives in Bellevue, Wash.

ROBERT O. MLADY, '52, is a staff engineer for Lockheed Missiles & Space Co., Sunnyvale. He lives in Menlo Park, Calif.

EDWIN E. JUUKOLA, '61, is manager of a pilot plant for the Arapahoe Chemical Division of Syntex Corp. in Boulder, Colo.

DR. ALFRED J. KERTENBACH, '61, is an assistant professor of electrical engineering at South Dakota State University, Brookings, S.D.

DOUGLAS E. ALBRECHT, '62, is working toward his M.S. degree at South Dakota Tech.

JIM DAMM, '62, is supervisor of regional field engineers for the EDP Division of Honeywell Inc., Chicago. His home is in Glen Ellyn, Ill.

CHARLES T. SCHMIDT, '63, is assistant marketing results supervisor for Northwestern Bell Telephone Co., Minneapolis. He lives in Bloomington, Minn.

DR. LARRY C. MADSEN, '64, is a staff member at the Los Alamos Scientific Laboratory, Los Alamos, N.M.

ARTHUR L. HUNT, '65, is an engineer for E. I. du Pont de Nemours & Co. in Parkersburg, W. Va. He lives in New England, W. Va. Brother Hunt is vice chairman of the Ohio Valley Subsection of the West Virginia Section of ASME.

JERALD O. OTT, '65, is an associate manufacturing engineer for IBM in Rochester, Minn. He lives in Byron, Minn.

LT. ANTOINE S. BELAT, '66, has graduated from Officer Training School at Lackland AFB, Texas. He has been assigned to Laredo AFB, Texas for training as a pilot.

JERRY J. PEKAREK, '66, is a chemical engineer for Dow Corning Corp. in Midland, Mich.

LARRY L. PRATER, '66, is working toward his Ph.D. at Arizona State University, Tempe, Ariz.

RICHARD T. NEWBERG, '68, is a student at MIT, Cambridge, Mass.

JOHN C. TRAYER, '68, is a research and development engineer for Dow Chemical Co. in Freeport, Texas.

BRIAN E. TUCHOLKE, '68, is a teaching assistant and graduate student in marine geology at Massachusetts Institute of Technology, Cambridge, Mass.

GEORGE WASHINGTON

T B

REUBEN F. LEATHERWOOD, '33, is a consulting engineer in the District of Columbia. He lives in Silver Spring, Md.

GUY B. WATSON, Jr., '41, is head of the Engineering and Construction Branch of the Plant Engineering Division, Office of Saline Water, Department of the Interior, Washington, D.C. His home is in Silver Spring, Md.

JOHN C. HELD, '52, is assistant manager of government sales for General Radio Co., West Concord, Mass. He lives in Sunbury, Mass.

JOSIE E. DODGE, '54, is a senior engineer with Atlantic Research Corp., Fort Huachuca, Ariz. He lives in Sierra Vista, Ariz.

CARL P. MCCALL, '55, is an electrical engineer for Atlantic Research Corp., Alexandria, Va.

MOISHEW H. MOORE, Jr., '57, is an engineer with Aeromarine in Newport Beach, Calif. His home is in Santa Ana, Calif.

FRANK RYERSON, Jr., '58, is a sales representative for U.S. Steel Corp. He is located in Akron, Ohio.

ELIOT D. COHEN, '63, is an electronic engineer at the U.S. Naval Research Laboratory, Washington, D.C. He lives in Silver Spring, Md.

MICHAEL COGAN, '64, is an engineer for Ampex Corp., Redwood City, Calif. He lives in San Francisco.

JOHN THOMAS HALL, '64, is a project engineer at the Army Night Vision Laboratory, Fort Belvoir, Va. He lives in Alexandria, Va.

GORDON E. DAVIDSON, '65, is a reliability engineer for General Precision Systems Inc. His home is in Ringwood, N.J.

DAVID L. WONG, '65, is a data processing officer for the U.S. Navy on the U.S.S. Boxer.

LOUISVILLE

Δ B

MILES G. NORTHROP, Hon. '22, is retired and is living in Bantay, N.Y.

ROBERT C. STOCKLER, '48, has been elected president of the Hearing Aid Association of Kentucky. He also is president of the Guild of Prescription Opticians of Kentucky. Brother Stockler's firm, the Stockler Optical Co., is in the retail optical and hearing aid business. He is also a member of the Optical Society of America and the Acoustical Society of America.

JOHN T. MCINTYRE, '54, is a senior design engineer for ILC Industries, Inc., Dover, Del.

WILLIAM E. LEYERS, '60, is a project engineer for the Votator Division of Chemetron Corp., Louisville, Ky.

THURMAN F. LEAR, '61, is a mechanical engineer with the Corps of Engineers, Louisville, Ky.

JOHN V. KEITH, '65, is a test design engineer for RCA, Bloomington, Ind. He is attending Indiana University.

GORDON SPENCER, '65, has been transferred from the 74th Construction Battalion to the 21st Regiment as technical training officer at Davisville, R.I. He lives in Exeter, R.I.

ROBERT D. YOUNG II, '66, is a project engineer with Hamilton Standard, Windsor Locks, Conn.

GENE M. GOOCH, '67, is an engineer for the Texas Pipe Line Co., Salem, Ill.

JAMES A. SIMMS, '67, is a liaison engineer for McDonnell Douglas Corp., St. Louis. His home is in St. Ann, Mo.

WINFIELD R. WOOLSEY, '67, is a rate clerk for the L & N Railroad Co., Louisville, Ky.

JAMES R. McDONALD, '68, is a student. He is employed by the Metropolitan Sewer District of Louisville, Ky.

WAYNE STATE

E B WILLIAM A. MONTICELLO, '52, is manager of engineering for Burroughs Machines Ltd., Dumbarton, Scotland.

CHESTER SELDEN, '53, is tow plant manager of Kett Manufacturing Co.

GERALD DEMERJIAN, '54, is systems manager for Chrysler in Perrysburg, Ohio. He lives in Toledo.

CHARLES M. DANIELS, JR., '56, is field manager for Snap-on Tools Corp., Detroit. He lives in Lincoln Park, Mich.

ROBERT J. STEVENS, '57, has changed his name from Szczepanski. He is product development engineer for Chrysler Central Engineering in Highland Park, Mich. He lives in Southfield, Mich.

RONALD C. ANDERSON, '58, is a project engineer with Allison Division of General Motors Corp., Indianapolis, Ind.

HAROLD C. JENNETT, '63, is an assistant engineer with Detroit Edison Co. His home is in Warren, Mich.

JOSEPH A. BOELTER, '65, is a process engineer for General Electric in Waterford, N.Y.

UTAH STATE

Z B ROBERT W. WRIGHT, '62, is a senior engineer with the Boeing Co., Benton, Wash. He lives in Seattle.

MAJOR DAVID J. PARKER, '64, is attending the U.S. Air Force Air Command and Staff College at Maxwell AFB, Ala.

HOUSTON

H B JOHN L. BOEGER, '66, is a process engineer with Signal Oil & Gas, Houston. He lives in Pasadena, Texas.

CHARLES E. BAUTSCH III, '68, is an electronics design engineer for the Apollo Systems Department of General Electric, Houston.

WASHINGTON (SEATTLE)

O B TOSIN L. HUMPHREY, '64, is a foreman for U.S. Steel in Pittsburg, Calif. He lives in Antioch, Calif.

GEORGE A. VICKERS, '65, is a design engineer with Idaho Power Co., Twin Falls, Idaho.

RALPH W. KIGER, '67, is a structural designer for General Dynamics/Convair in San Diego, Calif.

DETROIT

I B JOHN H. COLEMAN, '64, is a test engineer with the Atomic Power Development Association, Detroit. He lives in Dearborn, Mich.

RICHARD A. SALTURELLI, '64, is a graduate student at Michigan State University, East Lansing.

PAUL D. SHARON, '64, is city engineer for La Grange, Ill. He lives in La Grange Highlands. Brother Sharon is the author of an article on city beautification to appear in the November 1968 issue of *Public Works*. He and his wife expect their second child in December.

JOSEPH F. BREEMAYER, '65, is a patent examiner in the U.S. Patent Office, Washington, D.C.

DONALD F. NOGA, '65, is an automatic control engineer at NASA's Lewis Research Center, Cleveland, Ohio.

(Continued on page 58)



Chapter News

The chapters were asked to write on the subject of chapter housing for this issue of *THE GEAR*. It's interesting to note that when this subject was first used five years ago, only ten chapters had houses. Now a total of fifteen chapters have houses, an increase of 50 per cent. In addition, three chapters have moved to different houses, one chapter built a new house, and two more are actively working to acquire new housing. Theta Tau's oldest chapter, Minnesota, has a house; the youngest chapter, Tennessee Tech, also has a house.

A house is the center of activity for the fraternity and the place where the term brotherhood takes on meaning and purpose. It is through living together and having a place to call "home" that the members are able to learn to live and work together in harmony.

The fragile situation of some of the housing arrangements is all too apparent if one reads the chapter letters. One chapter—Syracuse—is virtually assured of losing its house. Other chapters (e.g., Columbia) have virtually no hope of establishing a house. Many of these nonhouse chapters operate admirably well under difficult circumstances.

Three key ingredients are necessary before a house can become and remain a reality. First, a receptive if not outright helpful school administration to give official sanction to fraternity housing. Second, an active chapter that is enthusiastic and willing to work constantly to manage and maintain the structure, provide the membership for an on-going unit, and earn alumni support. Third, the active and dedicated support of alumni who provide the legal foundation (a house corporation) and financial and professional support to provide a sound basis on which the continuity of the housing situation can be maintained. Alumni support will make or break a chapter when it reaches a housing crisis. Read on and see how your chapter is doing.—WEF

ALPHA CHAPTER



Good housing is one of the most important assets that a fraternity can have. It is through living together that the strongest bonds of brotherhood are formed. Alpha Chapter has been fortunate in that it has maintained a chapter house for more than 50 years.

The present chapter house was constructed in 1957 and remains one of the most modern fraternity houses on our campus. Space is provided for 28 men in double rooms. In addition to the dormitory, we have a large lounge, trophy room, kitchen, dining room, and sun deck.

Financial support for the new house has been provided by the Theta Tau Association of Minnesota, which is operated by a group of conscientious Alpha alumni. This Association provides much of the major maintenance through funds collected from rent on the house. Simple maintenance tasks, such as painting and yardwork, are done by actives and pledges. Last spring we painted the exterior of our house as a joint effort of actives and pledges.

A great number of the improvements made in the past have been carried out by Alpha Chapter's Mothers and Wives Club. Recently they have provided us with new draperies, paintings, and upholstery. We are very fortunate to have such an active auxiliary.

Another source of funds for house improvements has been Alpha Cogs, an idea borrowed from Zeta Chapter. The Cogs consist of alumni who have donated money specifically towards house improvement. Since the initiation of this program last spring, we have had about ten contributions.

There are two basic contributions that a chapter house makes to a fraternity. As I mentioned previously, a stronger bond of brotherhood is developed through living together. A second and equal contribution is that maintaining a house provides everyone with valuable experience in handling the operational problems that arise.

JOHN A. TREXER
Corresponding Secretary

BETA CHAPTER



The Theta Tau house of Beta Chapter can be reached by traveling two and a half miles east of the Michigan Tech campus on U.S. 41. A one-eighth mile long driveway curves up to the large white house located on an 11-acre estate known as Anchor Hill. The surrounding

pine forest isolates the house from the highway and one or two distant neighbors. Completing the silent surroundings is the adjacent Portage Lake Golf Course which borders our back yard.

The house is owned by Theta Tau Incorporated, under the direction of four H & T alumni who are members of the Michigan Tech faculty. Beta Chapter rents the house from the Corporation, which in turn makes the mortgage payments. The mortgage should be completely fulfilled within the next two

years. Any major repairs or large monetary exchanges within the house must go through the Corporation and Financial Committee for approval.

The house is capable of boarding a maximum of 31 men. Twenty-five live in it out of a current membership of 33. Two floors and 17 rooms are devoted to study and sleeping space at the present time.

The chapter room is the most popular as it hosts all of the informal parties and the regular meetings. The chapter room and the adjoining "booie room" have been paneled and tiled within the last two years and are important assets to Beta life. Our pool hall is located next to the chapter room and the members manage to log many hours around the table.

University conditions are favorable toward men wanting to live in the house. Houghton is a small town and apartment facilities are scarce in relationship to the number of students seeking them. Also, the house serves as a focal point for Beta's social life. The Copper Country boasts very few theaters, dances, or other social attractions. Because of this, the house's importance is magnified above that of a house on a city campus where more living and social facilities are available.

Maintenance is a key issue at Beta Chapter. Every member is given a work detail to do every Saturday afternoon between the hours of 1:00 and 5:00 p.m. All members, from inside and outside the house, remain for the evening meal following the work detail. This practice promotes brotherhood and keeps the premises in good condition.

We recently solved a sewage problem which had plagued the house for years. Extra septic space was installed and the area was leveled and seeded by the summer crew. This added a new expanse of lawn for recreational use. Winter brings problems as our long, steep driveway resembles an ice slide instead of a roadway. Sanding crews are regularly assigned to keep the ice to a minimum. Sleds are the most practical means of transportation around our property during the winter months.

Remodeling was done in the basement hallway where hardwood paneling and ceiling tile add life to the once drab walls. Additional improvements are planned in the form of paneling for the pool room and floor tile for the rest of the basement.

Outside, our greenhouse stood obsolete until its restoration this summer. Henry Senterford, an honorary member, finds time to cultivate the plants and maintain the greenhouse in addition to his responsibilities as a Tech faculty member. The rooms above the garage are in preliminary restoration. Their use as storage space and tool rooms will make general maintenance an easier task.

The H & T's of Beta have had a successful pledge program. Our rush activities differ considerably from those on larger campuses in that there are 4,200 male students and only nine fraternities at Michigan Tech. With this ratio, we can afford to be selective in our choice of pledges.

We take special pride in competing with and defeating social fraternities. The unity of our small membership was evident last weekend during Homecoming when we won the Overall Trophy in Class A for the third year in a row. Successes in

Winter Carnival and intramurals support this quality above quantity theory. Limited membership enables Theta Tau to form closer bonds between brothers. A fraternity with too many members experiences a lack of communication and organization.

The chapter house has proven to be the number one advantage to joining Beta Chapter. It is the main attraction at open smokers and in conference presentations. It is a meeting place for alumni and friends. Without it, the Chapter would suffer from a lack of cohesiveness and direction. We are proud of our house and hope that every chapter will have the privilege of owning one.

LARRY A. BROWN
Corresponding Secretary

DELTA CHAPTER



Delta Chapter at Case is in the position of being an engineering fraternity at an institution predominantly concerned with technical and engineering education. The Chapter therefore stresses the participation of the Fraternity as a leader in the professional groups on campus, not in competition with the social fraternities. In view of this, we do not maintain a chapter house. In addition, we draw our membership from a student body living almost entirely in school-owned housing, and see no necessity for maintaining a permanent, dedicated headquarters. Instead, we use our adviser's office and the residences of the officers as the repositories of records, files, etc. This situation has been in effect since the founding of Theta Tau at Case, and has thus far worked quite well.

The lack of chapter housing, however, does not hamper our social and professional activities. Near our 50-man limit, we celebrated Founders' Day with a combination party and bid-acceptance welcome on October 20th. Other activities planned for the semester include a leadership workshop sponsored by Theta Tau for all the student chapters of the professional societies and a school-wide submitted paper contest.

We look forward to reading about what our brothers on other campuses are doing.

CLAYTON A. CURTIS
Corresponding Secretary

EPSILON CHAPTER



Epsilon Chapter is one of the remaining chapters which do not have a house. We realize the importance of a chapter house in establishing unity and as a focal point for gatherings. Because of this, a housing fund was started by the active members last year. Each active member is assessed a nominal fee every quarter. He may pay then, or wait and make the complete payment when he graduates. This means we hope to get something started for the

THE GEAR OF THETA TAU

future. We also expect to receive additional funds in the future from the estate left to this Chapter by Past Grand Regent George D. Louderback.

At present, our headquarters is located in quaint old North Gate Hall, the hub of engineering activity on this campus. Business meetings and closed meetings are conducted at North Gate, while professional development meetings take place at the Student Union.

TITUS HO
Corresponding Secretary

ZETA CHAPTER



Zeta is happy to announce occupancy of our newly built chapter house at 1942 Stewart Avenue. The capacity will eventually be 53 men, but at the present time the basement study rooms are not finished. The house is actually owned by the Zeta of Theta Tau House Corporation, a not-for-profit Kansas corporation which is operated by a Board of Directors of seven alumni, most of whom are from the Kansas City area.

The house consists of a flat-roofed structure with the basic layout in the shape of an "L." The living and dining rooms are separated from the study rooms, and much of the noise caused in the public areas is isolated there. Separate sleeping dorms further enhance study conditions in that late students do not bother their roommates. Additional special facilities consist of a combination chapter room and recreation room, a laundry room, library, mechanical room, and four study rooms designed especially for chapter officers.

At present we have a lot of frills to add before the house can be considered complete, but everyone is happy to have the new structure after many years of plans and hard work. Since the old house had a capacity of 28 men, we are in a transition stage of doubling our size. We should make it handy because the house is a real asset to Theta Tau.

Because of the serious need to open the house with as many men as possible, we stressed that everyone live in-house. We received good cooperation in that all but one man live in-house, including men whose parents reside in Lawrence.

Last year we lived out-of-house as we had to sell our old house. In that year we found what it was like to live without everyone concentrated in one place. Much more business was put in committees, and even then it was hard communicating that business which needed doing. Many of us missed the close brotherhood and unity we knew in a house. A chapter house offers many advantages. It is a central meeting place, enabling men to help each other in their studies. There is more recognition of a fraternity with a house than one without on the university campus. Most important, it provides a strong bond between members and pledges as well and enables them to work as a unit.

With the growing numbers at Zeta we are able to become more active on the Hill. At present we have six members holding offices in professional societies, two men on the *Kansas Engineer* staff,

two members on the Engineering Council, and every member and pledge belonging to their respective engineering societies. We plan to run a full slate of Theta Taus on the upcoming Engineering Council election ballot and have more participation on the *Kansas Engineer*. These are in addition to our annual participation as hosts to Engineer's Homecoming, building an archway as well as an exhibit in the Engineering Exposition, sponsoring professional films in the afternoons, and participating in intramural football and volleyball.

Despite our participation on the Hill we have kept our grades up to par. Last semester we were the eighth highest fraternity on campus with a GPA of 1.00 on a three-point scale.

No, we haven't forgotten about the social aspect of living in a house either. We participated in a welcoming street dance this September as three out of seven fraternity houses on our street have been built in the past nine months. Zeta is also planning to have a jacquemint Ball before Christmas as well as our annual steak fry and small parties after concerts.

We of Zeta extend invitations to anyone who wishes to attend our house dedication this spring, probably in April. We'll be more than happy to show you our new house because we are proud of it.

ROBERT J. PAULETTE
Corresponding Secretary

THETA CHAPTER



Although Theta Chapter does not own its own house at this time, this problem is still being discussed and the brothers are looking into alternatives for future years. Presently, we're maintaining an "office" in the Mudd Engineering Building, mainly for storing fraternity materials, while we use the other facilities of the Engineering School for our activities.

One of the future considerations for the Chapter is the planned construction of another engineering tower, in which we have been promised offices and meeting rooms. Another possibility could be the acquisition of a house for the Chapter but this involves many problems concerning the neighborhood of Morningside Heights, in which Columbia is located. Most obvious is the lack of appropriate housing for a fraternity or even the room to build a suitable house. If the project were to involve the University, it would confront the more subtle problem of community resentment towards expansion and poor community relations which have been built up over many years. The University has also mentioned the possibility of eventually building a tower to house all fraternities. With all of these alternatives before them, the brothers of Theta Chapter are still deciding what action would be in the best interests of the Fraternity in terms of housing.

LARRY WEINSTEIN
Scribe

LAMBDA CHAPTER



At present Lambda Chapter has moved from the Merrill Engineering Building, where we have had our headquarters for years, to the University of Utah Union, which has offered us better and more "plush" facilities. It also places us closer to the Associated Students of the University of Utah offices and the campus newspaper offices.

The brothers at Lambda have had their problems in trying to get a house. The current fraternity and sorority houses are off campus in residential districts. The houses have caused traffic problems and being in a residential district have had so many complaints filed against them that they are considering the practicality of moving. The Lambda brothers are currently waiting to see how this problem is solved before they even attempt to tackle the enormous task of trying to obtain a house. If in the future the fraternities choose to move to a new location and the rent district is sufficiently lower than the area where they are currently living, perhaps we will consider building a house.

The brothers of Lambda Chapter this past year have been involved in many projects. We are currently attempting to get published a book of conversation tables which we are going to make available to engineering students at no charge. We have also had the responsibility of advertising for all Engineering College functions. Also, each year the College of Engineering sponsors an Oyster Stew in which all departments and organizations compete in several categories. Once again, Lambda brothers dominated the competition to walk away with the prize. In beard growing competition, skit competition, attendance, and many other categories Lambda brothers completely outclassed the other entrants.

Our social calendar was highlighted this last year by the Founders' Day Banquet, which had the best attendance by alumni that Lambda has had in years. We were honored at the banquet by the attendance of Grand Regent C. Raymond Hanes. We are looking forward to a year as good as the last one.

LYNN K. BECKSTAD
Corresponding Secretary

MU CHAPTER



Mu Chapter has just moved to a new house. We are very proud of it. After long negotiations with the University we have finally succeeded in renting a house from them. The new house is twice as large as the old one; it will hold eight men

without crowding. It has a large living area, television room, chapter room, and kitchen. The Regent's room has a private bath. Upstairs we have three bedrooms, a large bath, and a study room. Until this year we lived in a furnished house.

When we moved, we had to buy furniture for the whole house. The new furniture and many of the improvements were paid for by the House Corporation. Each person pays five dollars per semester into the House Corporation and upon graduation each person graduating signs a fifty dollar promissory note, which is paid into the House Corporation.

The University painted the outside of the house and did needed repairs inside, but we did all of the painting inside of the house ourselves. We all came back to school a week early this semester for a work party. We accomplished a great deal of work during that week and had a lot of fun. Since school started, we have had several weekend work parties during which we redid the lawn and did other odd jobs.

Here at Mu we feel that our house provides a good place for members to meet and share in the Fraternity. We urge all chapters that do not maintain chapter houses to make an effort to obtain housing, because we feel that a house is of immeasurable benefit to any fraternity.

We do not compete with the social fraternities here at Alabama, because the social fraternities are very weak in the School of Engineering.

On October 16 we held our Founders' Day Banquet at the Stafford Hotel. It was well attended by actives and alumni. Professor F. R. Maxwell, our first honorary member, gave us a very interesting talk on the charter members of Mu Chapter. Everyone attending enjoyed the banquet very much.

BILL ABBINGTON
Corresponding Secretary

OMICRON CHAPTER



Omicron Chapter has its permanent headquarters in the Engineering Building at the University of Iowa. The room is supplied rent free with insurance and lights paid by the University, because Theta

Tau is considered to be a benefit to the College of Engineering. The room is kept locked and used by active members only.

We face several problems in obtaining a house. The financial burden associated with acquiring a house seems to be the largest problem. Omicron Chapter has a large percentage of married members, which results in a lack of interest in obtaining a chapter house. Even if the financial problem was solved and there was enough interest in obtaining a house, many more obstructions arise.

There are very few houses in the campus area that could be used as chapter houses. In fact the only available ones would be those houses left by other organizations to move into new houses. Another problem would be to acquire the University's approval and meet all of its standards for such houses.

ROBERT MOULDER
Corresponding Secretary

RHO CHAPTER



Rho Chapter has tried to obtain a house for the past several years, but has met with little success. However, the houses which were considered have been off campus and would not be recognized as an official house by the University under existing policies. For this reason, the Chapter has been somewhat reluctant in securing an off campus house. For a house to be recognized by the University, it must be located in Fraternity Row (a centralized housing complex for all fraternities on campus). The University controls the number of houses which are to be built on the Row, and at present Rho Chapter is fifth on the list for a house on the Row.

Rho Chapter presently meets in the Erdahl-Cloyd Union (College Union) every Wednesday night. The Chapter also maintains an office on campus where the files of the Chapter are kept. However, this office is not large enough for meetings to be held in. Even obtaining the office proved to be a difficult task for the Chapter due to a shortage of office space on campus.

Although the Chapter is somewhat reluctant in moving off campus, we have each pledge class make a housing survey of the Raleigh area to see if a suitable house is available. The pledge class works in conjunction with the Housing Committee, whose function is to keep a check on available housing in the area. As stated before, we have had little success due mainly to an acute shortage of houses in the area brought about by the rapid movement of large industries into the area.

Rho Chapter is very much interested in securing a house and we maintain a building fund for when the opportunity arises. We hope that in the near future the University will make new additions to Fraternity Row and enable us to obtain a house which would be officially recognized by the University.

The Founders' Day celebration of Rho Chapter was one of the most successful in several years. We were pleased to see a good number of alumni present. As in the past we combined our professional development program with the observance of Founders' Day. Following a buffet supper, the brothers and their dates were indeed fortunate to hear the Chancellor of North Carolina State University, John T. Caldwell, speak. Everyone thoroughly enjoyed the entire program.

WILLIAM TERRY KIGER
Corresponding Secretary

TAU CHAPTER



Tau Chapter is presently renting a house from the University on an individual basis, but in November we are going to lose our present residence. Then all the brothers will have to live in other housing. Plans are under way for forming a House Corporation, so we can deal with the University on

a more formal basis. One of the reasons that the administration gave for our loss of the house is that they have to fill up empty dormitory spaces in order to obtain government subsidies. Our house just happened to be one of several houses affected by this decision.

At present ten brothers, about fifty percent of our membership, live in the house. The rooms include seven bedrooms on the upper two floors. On the first floor we have three rooms used for parties and meetings. One of these rooms is used for a television room. The brothers living in the house do not eat there. They eat in a dormitory a couple of blocks away from the house. We only have a portable cooker and a refrigerator in our kitchen, but we put them to good use.

In late September the brothers joined forces and painted the inside of the house. We also spackled the walls. The University supplied us with paint, and we did the rest. The brothers living in the house chose the paint color that they would like used in their rooms. The house looks much better now.

With regards to our future plans, if we get our House Corporation organized, we will try to lease or buy a house from the University as soon as possible. If the University builds a new complex of houses, we will try to obtain one by putting a down payment on it before it is built. As far as the rest of this year is concerned, the prospects for obtaining another house are not very good. The University does not seem to want to lease or rent any houses. There seems to be a lack of office space, and the houses are going to be used for this purpose.

From talking with the brothers I found that none of them like the idea of losing the house. It seems that the house is one of the main factors that hold us together. It serves as a meeting place for chapter meetings. It is also used for social events. It is a place to find help when in need. We are all hoping to obtain a new house in the near future.

LESTER S. PALAT
Corresponding Secretary

UPSILON CHAPTER



Upsilon Chapter has one of the finest locations and rents probably the most historically distinguished house on the University of Arkansas campus. Built around 1900 as a student men's boarding house, our old, two-story, white frame house is only a hundred feet or so from the main engineering building. The chapter settled and has been living here at 703 West Dickson Street for slightly over seven years, but only after considerable wandering from house to house during the preceding years. While ownership of the structure and the surrounding land is being contested in court between persons close to Theta Tau and a foreign second party, we Tau brothers are fully enjoying our excellent location and the increased bonds of brotherhood which common housing affords.



The house at 107 Kansas City Street is home for Omega Chapter.



Upsilon's house near the Arkansas campus.



Members of Mu are proud of their new house.

Beta's home is in a parklike setting.



GMI Colony's new home



Xi Chapter's house

Our home, with its six upstairs and two downstairs rooms, can accommodate up to 17 men. This number accounts for approximately thirty-five per cent of the active membership, which is held constant at or slightly below 50 men. The rooms are large and rectangularly shaped with high ceilings; this allows ample space for sleeping, studying, and even some lounging quarters for either two or three men, depending on the relative size of the room. In addition to personal living quarters, the house has a spacious living room with fireplace which is converted into a chapter room when necessary, a somewhat smaller yet adequately large den and television "tube" room also equipped with a large fireplace, a dining room which comfortably seats 30 men during meals, and a small, poorly equipped kitchen.

Due mainly to the old age and structural weaknesses of the house, our greatest problems in recent years have been to "keep the walls standing" and hold some overly-anxious fire marshals at bay. To assure ourselves that our old home will not be suddenly "taken" from us, we have worked hard recently at successfully showing the fire marshals and local health officials that a seventy-year-old home which is properly cared for can be kept not only safe and livable, but comfortable and pleasing as well.

Some of the recent pledge class projects, which serve mainly this purpose, have included plastering and painting all halls and rooms, building several portable clothes closets, proper distribution of fire-prevention equipment and the regular practice of both fire and health safety techniques, and laying a new foundation and linoleum surface in the kitchen. Such projects have helped immensely, though the problem is ever before us.

One can easily see that the one obvious solution to our housing problems in general is to purchase or build a new house. The Chapter realized this several years ago. In an effort to bring about one of these two events, we brothers are currently in the process of raising the funds necessary to purchase the land for a new house which the University has agreed to finance. The site has been selected, the land surveyed, plans drawn up, and a fund-raising drive undertaken and about twenty percent completed, all of which was done either free of charge by active members or at a greatly-reduced price by alumni. With all of this done in the past two semesters, we are currently looking forward to completing the drive and making a purchase of the land within the next two to three years.

There is no doubt in any of our minds that the Taus of Upsilon Chapter have benefited greatly by having a spacious, well-located house in which we may increase our close bonds of brotherhood through communication and continuous fellowship among brothers. Even though we shall all greatly regret having to leave our longtime home in the near future, we can see that, like a shell, a house is an integral part of a living chapter, but its main function is merely to protect the life and feelings of its members, for it is not the life itself.

NASON BROOKINGS
Corresponding Secretary

PHI CHAPTER



Our house has a very unique history. It is over 90 years old and has been moved twice. It was once on the other side of the Wabash River. Prior to its present use it was a bank, a church, and a general store. It has been remodeled many times since then, most recently in "Operation Facelift" a few years ago, when the entire first floor was done over. Two years ago we finished paying the mortgage and the house is now completely owned by our Alumni Association.

The main floor consists of the lounge, the chapter or "bum" room, dining room, and kitchen. The spacious lounge is used for chapter meetings and for entertaining guests. It has a color television and a stereo system to help keep everyone occupied. The "bum" room contains most of our trophies and is used mainly for card games or dates. Our dining room has a capacity of 35 and is also large enough to be used as a dance floor. We hire a cook for our meals and some of the brothers work as waiters to reduce their house bills. The study rooms are on the second and third floors and an open-air dorm is on the third floor.

Maintaining a large house is no easy task; leaders are needed to help everything run efficiently. To handle the financial system we elect a treasurer every year. He does all the accounting work for the house and keeps track of each member's individual bills. Every officer and committee head is given a budget and must report their spending to the treasurer. Repair work and maintenance are the duties of the house manager. He sets up weekly work sessions and pledge projects and makes sure that all necessary supplies are on hand. Running the kitchen is handled by the steward. He arranges for all large meals and is the head of the waiters. Important as these officers are, they could get little accomplished without the co-operation of all the brothers.

Phi Chapter is currently in a period of gradual expansion; we hope to reach a total of 50 men in the near future. Our house has a comfortable capacity of 25 men and last year we arranged to rent the house next door to us. It provides living quarters for about ten men and helps us to expand without having some members move away from the house. We are hoping to be able to move to a 50-man house as soon as possible. There are a few fraternities of around 50 men planning to build new houses on the university-owned "Tower Acres." Building is not feasible for us as Purdue requires that all houses there have a minimum of 85 man capacity. We know of two 50-man houses that could be available and we are looking them over very closely.

We have to compete with all the social fraternities during rush, as we are members of the Inter-Fraternity Council, which runs the entire program. This year we initiated a new program to help us with rush, Little Sisters. We believe that we are the first Theta Tau Chapter to have a Little Sister program. Our Little Sisters will help us bring out our social side and we hope that they will help us get the men we want to pledge. We

plan to co-ordinate rush with our professional programs and social activities to let the rushees see both sides of our Fraternity.

A chapter house is definitely an asset as it helps bring out brotherhood. The brothers learn to work together on the work sessions, for social functions, and on some of the committees. More important though, by living together the brothers get to really know each other and strong bonds of friendship are developed.

STEVEN BOZICH
Corresponding Secretary

CHI CHAPTER



We of Chi Chapter are pleased to report that we are now settled in our new chapter house. Due to expansion on the part of the University of Arizona, we were forced to move from the old house in January 1968.

The new house is quite an improvement over the old one. The house is composed of six apartments. The house can accommodate 12 people, two to an apartment. Each apartment consists of a large living room, bedroom, tile bathroom, and a large (if not too modern) kitchen. In order to meet mortgage payments, taxes, and upkeep, a minimal amount of rent is charged. This rent is \$35 a month or \$130 a semester. We have not had any trouble filling the house until this semester; however, we expect the house to be full before long.

The details of running and maintaining the house are taken care of by the house manager. He is responsible to the House Committee. This committee is composed of alumni and active members of the Fraternity.

Although we have a new house, we of Chi still lack a chapter room. The Chapter still must hold its meetings on campus. We find the lack of a chapter room to be a great handicap; although there is a place to gather before parties, the house provides no adequate place to hold parties on the premises. The apartment style of the house also lends itself to a certain degree of isolation among those living there. It is hoped that in the near future we will be able to add a chapter room to the house.

Chi Chapter held its annual Founders' Day potluck at the home of Brother Bill Thomas. The afternoon was quite a success; a good time was had by all the members, dates, and alumni who attended.

JOHN T. RIVERA
Corresponding Secretary

PSI CHAPTER



We of Psi Chapter do not own or rent a house. We do, however, have a lounge in the Men's Residence Hall.

The lounge is a room that is approximately 24 feet long by 18 feet wide and is situated in one wing of the Hall. Therefore, it is large enough to keep our files there as well as hold meetings and have initia-

tions. In the past we had all member occupancy in this particular wing, but this year because of the great influx of students we had to give some of the rooms to non-members. This does not, however, interfere with our privacy since the lounge does have doors which can be locked when necessary. At any rate, all Fraternity property is locked in our files.

As far as problems we face in obtaining a house, there are many. First of all, we are a small fraternity on a small campus. We have an average of 14 actives and 12 pledges per year. These members come from a student body comprised of approximately 640 members of which one-third are enrolled in an engineering curriculum. Secondly, better than 50 percent of our members are either married or residents of Butte. We don't feel that 12 members warrant a house or could even pay for a house. Thirdly, we are a bit spooked about obtaining a house since five years ago when our competitive and only other fraternity on campus, Sigma Rho, bought one. Since then, they have steadily deteriorated as a fraternity because they have taken almost any person for membership just to keep enough people in the lounge to keep it going. In some cases they have even had non-members living there.

Even though all that I have said makes the future look bleak, the situation has a very good chance of improving. Within the next six years there is talk of expanding our engineering curriculum at Montana Tech. Hopefully, we will receive degrees in electrical engineering, mechanical engineering, and chemical engineering. If and when this happens, there will be a definite increase in potential engineers, a larger student body to select from, and obviously a larger fraternity membership.

I hope this letter will be of some value to our other chapters. If not it will give a realization of our problem here. I am looking forward to reading the letters in the Fall 1968 Gear in hopes that they may help us. Perhaps we might have to wait six years after all.

JIM MISCHOUT
Regent

OMEGA CHAPTER



By the beginning of the summer of '68, the alumni of Omega Chapter had purchased two lots adjacent to the one we have. The buildings were in poor shape, but

the situation quickly changed, as a few of the brothers that worked in Rapid City during the summer put their backs into it and did a tremendous amount of remodeling. When the rest of the brothers showed up for college this fall, the job was completed. A number of alumni dropped in to see how the place looked. They not only financed remodeling in the new houses, but also dug into their own pockets and financed the materials to remodel our chapter room in the original house. That job is done now, too, and we feel ourselves fortunate to have the generous alumni that we do.

The original house held 20 men. Now, we have a total of 35 men living on Omega ground. This

DELTA BETA CHAPTER



presented dining problems, increased salaries for the cook and maid, an increased food bill, fuel bill, light bill, water bill, taxes, and maintenance problems. Also, there is just a little more inclination toward waste with almost twice as many men living here. In general, these problems did not build to the degree we had thought they might, but it meant that we had to pitch in more individually than we had in previous years. We have found that it is necessary to conserve on the little things, like making sure the lights are off when not in use, trying to eliminate heating waste, and, in general, we had to tighten our belts a little bit. The cost per semester for living in the house was raised from \$325 to \$350. This includes maid and cook service and the benefits, like the refrigerator, which is usually full after supper and empty by morning.

At the same time, having 35 men is beneficial. We have clean-up days on Saturdays during the fall and spring. These are set aside for raking and picking up the yard, and doing odd jobs that need looking after in the houses. The increase in manpower is appreciated. Then, we feel that for a Fraternity of 50 members, 35 is about the right number to house. This allows for brothers who are married, and those who have relatives in town to stay with.

This is a picture of the housing situation today. But, as is common to engineers, we are looking to the future. We see a spanking new house there, but it seems quite distant at the moment. This does not mean that nothing is being done. In the spring of 1967, the Building Fund of Omega Chapter was initiated. This is a program in which the active members pledge \$135 per man, to be paid at the rate of \$3 per month while attending college. Even with a program of this nature, it will be years before we have a workable sum to begin planning and building with.

The house at Omega Chapter has always been the center of fraternity activity. It is a gathering place before football games, it is a place to iron out scholastic problems. It is a place that we can take our dates. And, it is now the home of 70% of our actives.

ROBERT BORKMAN
Corresponding Secretary

GAMMA BETA CHAPTER



While Gamma Beta Chapter, in the heart of Washington, D.C., has never owned a fraternity house, it has had the use of the Davis-Hodgkins House, a university-owned building. The house is provided for engineering students in general and thus has always been available to us. We held all our business meetings and parties at the Davis-Hodgkins house.

The school has just ordered all new furniture for the house and new carpeting also. The pledges and brothers and other members of the Engineering School are redecorating the basement to be used as a party room.

ROBERT S. GRANT
Corresponding Secretary

The Delta Beta "housing story" began in late 1965. The old red house that had been the Chapter's home since its founding in 1939 was to be demolished. The Chapter was caught in the middle of an Urban Renewal plan to change the complexion of 212 acres on the University of Louisville campus. In 1966, the University offered to loan fraternities 75% of the cost of building new housing if each organization could furnish an initial 25% in cash and submit building plans to be approved by the university architect. This plan was rejected by Delta Beta because the title to the new house was to remain in the hands of the University and because of some of the restrictions regarding house rules and size of building. This plan was discarded by the University, due to the relatively weak financial positions of most of the Greek organizations on campus.

In the meantime, we had made a successful effort in reviving our inactive alumni club. We knew that the alumni could give us help in our search for housing since some of them were in insurance, real estate, and law in addition to engineering. A house corporation was formed by the alumni in 1966 to aid the chapter in obtaining funds needed for housing. The chapter is indeed grateful for the efforts of the house corporation's board members: George Ellerkamp, Bob Delahanty, and Charles Buckman.

Delta Beta decided that it was more realistic to try to buy an existing structure and remodel it than to start from scratch. Finding a house close to campus was indeed a problem since most of the buildings were to be razed. However, a house was found on the western edge of the campus on the street where most of the other Greek organizations were located. The house committee then began negotiations with the University and the Urban Renewal agency. This house was still in the Urban Renewal area, but plans had been made to leave this and 10 other houses standing if they were maintained by Greek organizations. The University agreed to the acquisition of this house by Delta Beta and in July 1967 it was purchased from the private owner. The purchase was financed with money from the sale of our old house, money built up in the Chapter's building fund and the rest through a loan from Theta Tau national headquarters.

The house corporation then had an architect and engineer draw up remodeling plans and estimate costs. The house was to occupy 10 comfortably, have a kitchen and ample recreation space. The work was to cost the chapter \$20,000. The Urban Renewal Agency was anxious to help us in any way possible and encouraged us to proceed with the work and apply for a low interest, long term loan for the entire cost of remodeling. In January of this year the plans were completed and submitted to the agency. Our plans were all for naught. Urban Renewal and the University agreed that our house did not merit such an ex-

tensive remodeling job since the house was only going to remain there for a limited time.

Although the old red house was then the property of the agency, the chapter still occupied it. Then the ancient frame house started to fall down around us. Realizing that the old house could not survive another winter, the University offered to buy the house that we had purchased and do a less extensive remodeling job for us. The University expected us to pay \$7,000 to remodel a house that we would not own and, for this reason, the plan was rejected.

In the summer of this year, the University finally came up with an acceptable arrangement. The house next door to the one we had purchased was in very good condition although somewhat smaller. The University offered to rent the house to us for a reasonable monthly rate and Delta Beta accepted the proposition.

The Chapter finally moved from the old red house in July of this year. With the help of alumni and after a great deal of work by the active members, headed by house manager Jerry Pradom, the Chapter now has one of the best looking houses on campus.

We now faced the task of getting the University to make up for our losses in being delayed with all our money tied up in a house that we could not remodel. This was accomplished in a fairly short period of time. The University offered to give us 3 years rent free in the house we now occupy and also offered to buy the house that we were forced to give up on.

And now a look at the future. The University of Louisville is a municipal university with financial problems. The state legislature is considering making the University a part of the state system, but the type of status the University will have has not yet been decided. At present, the University is a typical "commuter college", that is, the great majority of students are from the metropolitan area. For this reason we only have 8 out of town students in the Chapter and only 5 living in the house. Our 45-man membership allows us to compete on the same level with the other Greek organizations whose memberships average at 75. If the University goes completely "state", there is no doubt that more out of town students will attend the University and the total enrollment will increase. Greek memberships will also increase and Delta Beta will have to consider increasing membership over the limit of 50. The engineering school is very active in cooperative work programs and, as a result, nearly 20% of our membership is on coop every quarter of the school. So, in order to maintain 50 members at one time, we might consider a membership ceiling of 60. As a result of these considerations, Delta Beta will probably make another housing move in 3-5 years.

Recently, the University unveiled new plans for fraternity housing. They plan to build 5, three story, 40-unit houses in the first phase of the Greek housing complex. These 5 are expected to be completed by the end of next year. The University requires an initial deposit of \$20,000 for an organization to be included in this project. The financial burden imposed after occupation of a building would be staggering. It would require

almost \$12 per month per man (based on 50 men) for the right to use the first floor activity area and regular dormitory rates would be charged for room rent, contrasted with our present monthly dues of \$12 and rent of \$12. The University also plans to erect smaller 20-unit buildings for small organizations. The activity area fee would be \$7 per month per man with regular dorm rates for room rent. This plan seems more realistic to our Chapter but the starting date for these units has not yet been established.

In conclusion, we feel that a chapter house plays an important role in promoting fraternal fellowship. Having a place of your own to gather in is the key to the strength of a chapter and this is proven by attendance records at Conferences and Conventions. All the brothers consider the house a second home and are proud of it. The 29 years of tradition established in the old red house will never be forgotten and will be upheld wherever Delta Beta hangs its charter.

BILL PAULIN
Housing Committee

EPSILON BETA CHAPTER



The brothers of Epsilon Beta Chapter are pleased to be given this opportunity to present to you our "housing story."

Our house, which is owned by our Chapter Alumni Association, is located in the heart of Detroit on the campus of Wayne State University. It is a three story brick home with a thirteen car garage. On the second and third floors there are a total of eight rooms which provide living quarters for half of our active membership. On the first floor we have a living room, chapter room, library, and a large kitchen which is adequately equipped with five refrigerators, two stoves, a large freezer, and more than ample cupboard space. Our basement is divided into four separate rooms, one of which is our billiard room.

A large house such as ours requires complete participation among its members to maintain its condition. Each member is given a house assignment each week, and it is the duty of the house chairman to assign these and make sure they are done. A major house improvement is given to each new pledge class. This not only helps to improve the chapter house, but also unites them in closer brotherhood.

All types of functions are held at the chapter house. These include monthly alumni meetings, weekly active chapter meetings, which are followed by a dinner, date parties, mixers, rush parties, and combined social functions with other fraternities.

Being part of a "commuter college" we have found that our chapter house is essential in that it is the center of all our fraternal activities.

GERALD M. HOLMBERG
Corresponding Secretary

ETA BETA CHAPTER



Eta Beta Chapter of Theta Tau has its own chapter house. It is at 2551 N. MacGregor, approximately two miles from the University of Houston campus. We have lived in this particular house since April 1966. It is owned by Mrs. Asa Westbrook and we have a renewable type lease arrangement on it.

The house serves a vital role in the life and administration of Eta Beta Chapter. All meetings are held there. Parties of all types (including mixers with various women's organizations, after-games parties, and regular date parties) are held there. We have adequate party facilities and always have a good time.

Our house is two and one half stories tall and is made of red brick. The half story is the attic that has been finished into a spacious study room complete with black boards, reference books, and a growing collection of homework from various engineering courses. These serve to aid in studying and course preparation. Money has been appropriated to finance the purchase of various engineering handbooks, references, and useful texts that help in the completion of assignments.

The house has a kitchen, television room, party and meeting room, bar, and poker (dining) room—all downstairs. The second level consists entirely of living quarters. There are accommodations for eight to 10 men. At the present there are six men living in the house. It should be added that many of our members are from the Houston area and live in apartments or at home. Therefore we do not have much demand for living quarters for members at the chapter house.

House residents prepare their own meals in the kitchen on the ground level. They buy their own groceries and clean up after themselves.

All minor repairs are taken care of by the members. Regular work parties are held whereby the pledges clean the house thoroughly (especially before parties) and care for the lawn. Weekly clean-ups are required of the pledges. It should be added, however, that every member does his part in taking care of the house. To date we have had no serious problems in regard to financing and care of the house. All expenses come out of the treasury.

A set of house rules has been written and are enforced. One resident member acts, more or less, as a "manager" but very few problems arise in regard to house administration and regulations.

We are proud to say that we are a rapidly growing chapter. This causes a problem in regard to space. We are gradually outgrowing our house.

A committee exists that serves to find a larger, better house. Each possibility is always checked out and voted upon by the members. Availability of good houses is another question. There are plenty of houses available but cost goes proportionately as the size increases. This is the one area where the large, rich social fraternities have the upper hand on us. They can afford to pay more for a house than we can. All we can say is give us time. We will catch up. After all, we are only

seven years old (and growing). Sooner or later we will move into a larger house.

In regard to our present situation, the only major complaint about 2551 is that of parking our cars. The driveway at the house can accommodate about eight cars. The rest have to parallel park along MacGregor Drive. Damage has resulted to cars from the passing motorists. All parking is on a first come, first served basis.

Our chapter house is the one main thing that holds us together. With it we are a united group. Without it we would lose our unity and, in turn, our strength. It is always open to all alumni, members, and pledges as well as their guests. Female friends and guests are always properly chaperoned when they pay us a visit or come to a party.

Before we moved into our present quarters we had no permanent headquarters. We met in classrooms and our social functions were very limited. Our Chapter was gradually getting weaker. Since we moved in, however, we have grown stronger physically, financially, and academically. Without our house we would be just another organization. But we do have our house and we are not just another organization. We are Theta Tau.

ROBERT S. BLACK
Corresponding Secretary

THETA BETA CHAPTER



Theta Beta Chapter will celebrate its sixth anniversary March 2, 1969. We are currently holding our weekly chapter meetings in a conference room in the Student Union Building on campus.

Our present membership of nine men is too low to make owning a permanent chapter house feasible. However, we have made a house study within the last year and hope that when Theta Beta Chapter's membership increases, we will be able to acquire one. As with most universities, the costs of owning and operating a chapter house are high. We feel that a membership of at least 30 men would be necessary to make ownership of one possible. Any advice or ideas on this topic from brothers of other chapters would be greatly appreciated.

During each quarter we try to arrange at least one tour of interest to us and have a professional man from some engineering field speak at a meeting. These events purposely coincide with our rushing and pledge class period and all guests and pledges are encouraged to attend. Also each quarter we have a formal affair as well as an informal and some very informal events.

This year we celebrated Founders' Day by having a smorgasbord and banquet and we were pleased to see many Theta Tau alumni. We were very honored to have as a guest Founder Elwin L. Vinal, who lives near Seattle. Brother Vinal spoke to us about the early days of Theta Tau. Also a very interesting local candidate for U.S. Senate spoke to us about the need and importance of engineers in government.

DON LEGG
Corresponding Secretary

IOTA BETA CHAPTER



In keeping with the trend that exists among the chapters of Theta Tau Fraternity, this Chapter, too, has been actively engaged in obtaining a fraternity house. Fully realizing the advantages of having a chapter house, Iota Beta Chapter has put forth much effort in the past year in hope of making this chapter house a reality.

Presently, Iota Beta Chapter has no permanent headquarters. Files and important information are kept at a house off campus where four members live. Meetings are held either in a meeting room of the Student Union or in a room in the Engineering Building. While some universities provide permanent meeting rooms for organizations, the University of Detroit does not provide such a service. The limited number of meeting rooms available are obtained on a first come-first served basis.

Iota Beta Chapter has seen the need for a chapter house for several years now, but for various reasons, including financial ones, a concentrated effort was not made until this past year.

In the early part of this year, a house just off campus was put up for sale. It included a two-story brick house on a lot 100 feet by 125 feet and was priced at \$25,000. It lent itself very nicely to our needs for a chapter house since the basement was large enough to convert into a meeting room, while the first and second floors could be used for living quarters.

After deciding that this was the chapter house we wanted, we began taking the steps necessary to obtain it. The first major step taken was in April, 1968, when Iota Beta Chapter became incorporated with the State of Michigan. This would allow us to act with all liability resting with the chapter as an entity and not on the individual members of the chapter. Also, we put a \$500 deposit on the house itself. However, from this point on, nothing but difficulties were encountered. These difficulties fell mainly into three categories: 1) school approval, 2) fear of deterioration of the neighborhood, and 3) zoning laws.

When presented to the administration of the University of Detroit, our request for housing approval and for administrative support was rejected. Although we received the support of many influential people on campus, it seemed that the minds of the University administration could not be swayed. Their position rested on three reasons. First, since new dormitories were nearing completion, the administration felt that chapter houses would reduce the number of students requiring dormitory rooms and, thus, leave undesirable vacancies in these new buildings. Secondly, the administration felt that chapter houses in general lead to the deterioration of the neighborhoods they are located in; in this case, the neighborhood around the University of Detroit. Thirdly, the administration felt that they had a moral responsibility to settle all claims should the enterprise fail

and they did not want to place themselves in such jeopardy.

Another difficulty incurred pertains to the zoning laws of the area. It seems that this area is presently zoned for only one and two family dwellings and a chapter house would require that these zoning laws be changed to include multiple family dwellings. However, we feel that if school approval and support are obtained, this would no longer be a major problem since the University mainly influences the zoning laws of the area.

The last problem encountered is the lack of alumni. Since Iota Beta Chapter is only four years old, the number of alumni that we have is rather limited and an enterprise such as the organization of a chapter house requires a strong backing of the Chapter's alumni. However, we are counting on the support of our present alumni and we are confident that their lack in number will not be a major problem.

Although faced with these problems, this Chapter is taking and planning to take steps which will alleviate these problems and bring us closer to the goal of our chapter house. A step which is presently being taken is a pledge of \$200 (toward a Housing Fund) made by each member upon initiation to be paid within five years after graduation. This is to ensure that when the opportunity to acquire a chapter house does occur, funds will be available for its purchase and upkeep.

Another step which is being planned now is aimed toward the problem of University approval. It consists of two parts: 1) setting up an Inter-Fraternity Council Housing Committee and 2) talking to the members of the Board of Trustees of the University of Detroit.

This Inter-Fraternity Council Housing Committee, whose chairman is a member of Theta Tau, is a combined effort of all the fraternities on campus to obtain housing approval. They plan to present a report to the administration outlining what fraternities do on campus and the reasons why they should be given housing approval. Also, they plan, if necessary, to have national representatives of the fraternities involved come to the University of Detroit to talk to the administration.

As far as talking with the Board of Trustees is concerned, this will be taken care of by Dean Canjar, Dean of the College of Engineering, who is an honorary member of Theta Tau and advisor of this Chapter, and Dr. Hitt, Chairman of the Electrical Engineering Department. It is hoped that the Trustees will be more responsive to fraternity housing than is the administration.

The number of steps which will be required to obtain our chapter house remains to be seen. However, the members of this Chapter are confident that it will someday be a reality and we will keep working toward that goal. We feel this way because we realize the importance of a chapter house in helping to perpetuate the goals that Theta Tau strives for—that by living together professional interest among its members can be better developed and maintained, and the bond of fraternal fellowship that unites us can be made stronger.

THOMAS J. HEMAN
Corresponding Secretary

KAPPA BETA CHAPTER



In the spring of each year, Kappa Beta has a senior recognition banquet, at which the graduating seniors are honored. This past spring, Webster Mills was named as Kappa Beta's outstanding senior. His name has been placed on the outstanding senior plaque, which hangs permanently in the chapter house.

Rush this fall yielded nine outstanding pledges. So far, these pledges have proved to be eager in spirit, even though the actives consistently beat them in a weekly football game.

As a money raising project, Kappa Beta has taken to painting house numbers on curbs for the small fee of one dollar. The spring pledge class started this in order to raise money for their pledge project. The active Chapter took up the project as a challenge from the pledges. Not only is this profitable, but it promotes brotherhood in the Chapter by bringing the Chapter together to work on a common goal.

Theta Tau was represented at the Mississippi State Homecoming this year by Miss Karla Lockett. After the game, Karla reigned over the Kappa Beta Homecoming Dance. Miss Lockett is pinned to Brother Joe Albritton.

Again this year, Kappa Beta sponsored the Red Cross Blood Drive in this area and gave a trophy to the fraternity having the highest percentage of donors. The chairman of the Red Cross in this area gave Theta Tau much praise for our efforts in that over 350 pints of blood were collected. Kappa Beta has agreed to sponsor this blood drive each semester.

On October 15, in honor of Founders' Day, the brothers of Kappa Beta wore suits and carried their Theta Tau Hammers. The hammers, which each pledge is required to carve, were carried by each member to honor our Founders. Not only did we honor our Founders in this way, but it proved to be a great method for further publicizing Theta Tau and our goals. We hope to make this a permanent tradition at Kappa Beta.

RICHARD S. WALKER
Corresponding Secretary

LAMBDA BETA CHAPTER

Fraternity housing is both a handicap and an asset to any chapter. Many problems arise for chapters with houses that chapters without them never realize. However, the value of a house can only be appreciated after a chapter secures one.

At Lambda Beta, we find that from the day we acquired our house, a stronger feeling of brotherhood developed within the members. We have often wondered how the fraternity (then a local) managed without one. It has become the center of all activities within the fraternity.

We feel that in addition to the fact that a house, naturally, attracts possible members, it is, or should be, a second home to the interested person who becomes a pledge. It gives the non-member the person who is ignorant of ritual and real Theta

Tau spirit, something tangible to associate with the Fraternity. When a pledge is just beginning his pledgeship he is, perhaps, for the first time being exposed to the ideals, goals, and advantages of fraternal brotherhood. Until he develops this feeling and knowledge, he needs something he can identify as a real connection between himself and Theta Tau. Later, he learns the principles of brotherhood, and he finds out that the house is not the fraternity, but only a complement to the fraternity.

The house also gives the member a chance to really meet and learn about the pledge. Through day-by-day contact, at the house, the active can decide, in his own mind, whether or not a person is worthy of becoming a brother in our organization. The member eventually sees the pledge as a real person, not just someone trying to impress others, as he did in the beginning. All of this is possible through the house.

For the member, as an element in a much larger group, the chapter house is a thing of pride. Just as the pledge, the member can identify his membership in Theta Tau with something tangible. This is an invaluable feeling to the brother.

We at Lambda Beta find that the biggest drawback to operating a fraternity house is the fact to a great extent there is a division in the Chapter. Those who reside at the house often are overworked as a result. In the ideal situation, all of the members would live in the house.

In closing, the chapter house is perhaps the one most important property of the Chapter. A chapter will undoubtedly be a stronger group if it operates a house. Due to this fact alone, each chapter without one at present should work hard in obtaining one, and the Fraternity should be wary of installing a chapter at a campus which does not already operate one.

HARVEY EATON
Regent

GMI COLONY

During the spring of 1968, the General Motors Institute Colony of Theta Tau was incorporated for the purpose of acquiring a house. The house is being leased by the corporation which owns all of the furnishings. In early May 1968, ten men, which is the present capacity, moved into the house. Plans are being made to increase this number to fourteen-to-sixteen in the near future.

The main room on the first floor is a 23' x 12' living room with a brick fireplace. Along one wall, one can find some of the more unique paddles from previous pledge classes. Also, in this room there is a new Magnavox stereo console, a gift from last year's senior class. Two bedrooms, a study room, and the master bathroom are located along a hallway off the living room. The all-modern kitchen area is carpeted, as is the rest of the house.

Located immediately adjacent to the kitchen and living area is an enclosed patio dining area. The brick barbecue pit in this patio area is very handy for summer type meals.

Eight sliding glass partitions separate the patio from the indoor swimming area. This area contains

a heated pool which measures 18' x 40' x 8 1/2'. A diving board and two "his" and "hers" half baths are located at the far end of the pool area.

From the pool area a stairwell leads down to the membership room. The carpeted and paneled membership room which is the scene of many of the Colony's activities has another natural brick fireplace. The downstairs area also contains another study room and half bath. The utility room, in addition to housing miscellaneous fraternity property, contains the combination heating and air conditioning unit for the whole house.

A budget was established which would enable the colony to meet expenses in the most sensible manner. The ten occupants of the house pay a fee covering all of their expenses toward the house. The utilities and major cost items are paid by the

colony treasury. General maintenance is performed by members and pledges under the supervision of the house manager.

A primary objective of the Colony is to use the house as a means of more closely uniting the membership through increased contact of the individual members. The bi-sectional co-operative system being used at General Motors Institute makes this increased contact especially valuable.

Aside from establishing permanent headquarters, the house provides common goals for the two sections. Some of the activities which take place in the house are: membership meetings, pledging activities, rushing functions, parties, and general work sessions.

DICK LANDIS
Corresponding Secretary

Additions to Membership

ALPHA CHAPTER

- 807 Terry Lee Pennaz, Minneapolis, Minn.
- 808 Philip Lee Anderson, Mountain Lake, Minn.
- 809 William Frederick Lange, Jr., Hill City, Minn.

GAMMA CHAPTER

- 1088 Harry Vane Temple, Jr., Pueblo, Colo.
- 1089 Ricky Dean Clark, Colorado Springs, Colo.
- 1090 Jerry Thomas Laman, Westminster, Colo.
- 1091 William Allen Abbott, Allentown, Pa.
- 1092 Donald Lee Morrison, Sterling, Colo.
- 1093 Robert Lee Ball, Pueblo, Colo.
- 1094 Marion Clay Chambers, Jr., Englewood, Colo.
- 1095 David Harold Scriven, Casper, Wyo.

DELTA CHAPTER

- 1103 William Henry Campbell, Chatham, N.J.
- 1104 Herbert William Dornbush, Jr., McMurray, Pa.
- 1105 James Edward Driver, Lima, Ohio
- 1106 Thomas George Fairweather, Chagrin Falls, Ohio
- 1107 Randall Steven Frank, Jenkintown, Pa.
- 1108 James Walter Joy, Fairbanks, Alaska
- 1109 Joseph Michael Latvis, Lawrence, Mass.
- 1110 Milton Harold Luoma, Jr., Findlay, Ohio
- 1111 Steven Alfred Mueller, Midland, Mich.
- 1112 James Arthur Salter, Lakewood, Ohio
- 1113 Irland Lee Tashima, Garfield Heights, Ohio
- 1114 James Allen Vaden, Youngstown, Ohio
- 1115 Roger Allen Wing, Cleveland Heights, Ohio

EPSILON CHAPTER

- 880 Peter Richard Dickson, Oakland, Calif.
- 881 Harry Michael Nicholas, Orinda, Calif.
- 882 Michael Francis Wildman, Piedmont, Calif.

ZETA CHAPTER

- 709 John Elwood Joseph Selk, Seuca, Kans.
- 707 Thomas Harrison Hough, Maitland, Fla.
- 708 Carl Morris Shaul, Bonner Springs, Kans.
- 709 Lawrence Lee Anderson, Kansas City, Mo.
- 710 Michael Alfred Frouth, Lawrence, Kans.
- 711 Frederick Fox, Leecompton, Kans.
- 712 Leslie Dean McCulley, Ness City, Kans.
- 713 Ronald Lee Kuehler, Topeka, Kans.
- 714 Allan Warner Shumaker, Wetmore, Kans.
- 715 Gary Leland Stuart, Costa Mesa, Calif.

THETA CHAPTER

- 726 Kenneth Michael Krisses, Jamaica, N.Y.

IOTA CHAPTER

- 1083 John Charles Bakula, Hanley Hills, Mo.
- 1084 Martin Gardner Bowin, Memphis, Tenn.
- 1085 Ronald Edward Eilers, Portage Des Sioux, Mo.
- 1086 David Ralph Fandel, Springfield, Ill.
- 1087 John Douglas Krueger, Monett, Mo.
- 1088 John Edward Lambert, Jr., Indiana, Pa.
- 1089 James Berneson McKelvey, St. Louis, Mo.
- 1090 Steven James Muir, Springfield, Ill.
- 1091 Thomas Victor Sauer, Chester, Ill.
- 1092 Leon Henry Schellman, Jefferson City, Mo.
- 1093 Martin Ray Snow, Kansas City, Mo.
- 1094 Timothy Martin Vicente, St. Louis, Mo.
- 1095 James Francis Watkins, Jr., Kansas City, Mo.

LAMBDA CHAPTER

- 903 Glen Joseph Anderson, Bountiful, Utah
- 904 Dennis Jack Bottino, Helper, Utah
- 905 Jaime Eldon Dorman, Jr., Price, Utah
- 906 Ronald Edwin Lund, Springville, Utah

THE GEAR OF THETA TAU

MU CHAPTER

- 919 James Warren Keith, Tuscaloosa, Ala.
- 920 Gordon Christy Anderson, Birmingham, Ala.
- 921 Larry Jim Black, Arab, Ala.
- 922 William Elijah Brown, Jr., York, Ala.
- 923 Larry Lee Campbell, Bienville, Ala.
- 924 Charles William Culbertson, Tuscaloosa, Ala.
- 925 Joseph Sidney Garner, Jr., Fort Walton Beach, Ala.
- 926 Preston Marshall Lewis, Birmingham, Ala.
- 927 Howard Hinds McCarl, Jr., Florence, Ala.
- 928 Virgil Truman Smith, Jr., Tuscaloosa, Ala.

XI CHAPTER

- 319 Neal Charles Eriksson, West Allis, Wis.
- 320 Paul Frederic Hardinski, Park Falls, Wis.
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- 504 Richard Bennett Rule II, Butte, Mont.
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| 44 | Wayne David Harkins, Cookeville, Tenn. | | |

(Continued from page 41)

JAMES H. SWELGIN, '65, graduated from General Electric's manufacturing management program and has accepted a permanent position with GE in Phoenix, Ariz. He is the father of a second child, James, born June 29. The family lives in Glendale, Ariz.

JOHN K. HOPKINS, '67, is a process design engineer for the Floor Corp. in Los Angeles. He lives in Long Beach, Calif.

ROBERT KOPICKI, '67, is a systems engineer at Hughes Aircraft in Fullerton, Calif. He is recently married.

MISSISSIPPI STATE

K B **GEORGE LIGHTSEY**, '65, is a graduate student at Louisiana State University, Baton Rouge.

GREG F. GLEI, '68, is a nuclear engineer for Babcock & Wilcox, Lynchburg, Va.

FRANK L. MCCOLLUM, '68, is a graduate student at Mississippi State.



Delta Beta's new house at the University of Louisville



The trophy studded living room of Delta Beta's house.

House Manager Jerry Prudom is one of five Delta Beta boarders.





Theta Tau Directory

Theta Tau Fraternity was founded at the University of Minnesota, Minneapolis, Minnesota, on October 15, 1904, by: ERICH J. SCHRAEDER; ELWIN L. VINAL, 4039 West Mercer Way, Mercer Island, Washington 98040; WILLIAM MURRAY LEWIS, 33 Pilgrim Lane, Drexel Hill, Pennsylvania 19026; and ISAAC B. HANKE.

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- RALPH W. NUSSER, *Zeta*, (1946-1948), 609 West Dartmouth, Kansas City, Missouri 64113
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 DONALD D. CURTIS, *Omicron* *Hon.*, (1950-1952)*
 JAMISON VAWTER, *Zeta*, (1952-1954)*
 A. DEXTER HINCKLEY, *Theta*, (1954-1958), 154 East River Road, Guilford, Conn. 06437
 CHARLES W. BRITZUS, *Alpha*, (1958-1962), 662 Cromwell Avenue, St. Paul, Minnesota 55114
 WILLIAM K. REY (PROF.), *Mu*, (1962-1966), P.O. Box 664, University, Alabama 35486

* Deceased

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- ARCHIVIST MILTON S. WUNDERLICH, *Minnesota* '79, 545 Mount Curve Blvd., St. Paul, Minn. 55116
 SPECIAL REPRESENTATIVE FOR CALIFORNIA JACK E. PAYNE, *Utah* '62, 1142 McKendrie, San Jose, California 95126

THE GEAR OF THETA TAU

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ALPHA	Founded October 15, 1904 _____ University of Minnesota 515 Tenth Avenue, S. E., Minneapolis, Minnesota 55414* Adviser: DR. MILES S. KERSTEN, 247 Experimental Engineering, University of Minnesota, Minneapolis, Minnesota 55455
BETA	Established March 26, 1906 _____ Michigan Technological University U. S. Highway 41, Houghton, Michigan 49931* Adviser: PROF. HERBERT W. HAWS, Mechanical Engineering Department, Michigan Technological University, Houghton, Michigan 49931
GAMMA	Established November 8, 1907 _____ Colorado School of Mines Box 134, Colorado School of Mines, Golden, Colorado 80401 Adviser: DR. L. W. LEROY, Department of Geology, Colorado School of Mines, Golden, Colorado 80401
DELTA	Established May 23, 1911 _____ Case Western Reserve University c/o Dr. Thomas P. Kicher, 212 Bingham, Case Western Reserve University, Cleveland, Ohio 44106 Adviser: DR. THOMAS P. KICHER, 1513 Sherbrook Road, South Euclid, Ohio 44121
EPSILON	Established May 4, 1911 _____ University of California Theta Tau, North Gate Hall, University of California, Berkeley, California 94720 Adviser: DR. DOUGLAS W. FUERNBERG, 382 Hearst Mining Building, University of California, Berkeley, California 94720
ZETA	Established April 17, 1912 _____ University of Kansas 1942 Stewart Avenue, Lawrence, Kansas 66044* Adviser: PROF. F. H. C. SMITHMEYER, 2130 Owens Lane, Lawrence, Kansas 66044
THETA	Established May 26, 1914 _____ Columbia University c/o Dean's Office, School of Engineering, Columbia U., New York, N. Y. 10027 Adviser: DR. ELMER L. GARDEN, Department of Chemical Engineering, Columbia University, New York, New York 10027
IOTA	Established February 5, 1916 _____ University of Missouri at Rolla Student Union, University of Missouri at Rolla, Rolla, Missouri 65401 Adviser: PROF. FRANK J. CAPEK, Civil Engineering Department, University of Missouri at Rolla, Rolla, Missouri 65401
LAMBDA	Established April 29, 1920 _____ University of Utah Merrill Engineering Building, University of Utah, Salt Lake City, Utah 84112 Adviser: PROF. PRESTON D. LINFORD, Civil Engineering Department, University of Utah, Salt Lake City, Utah 84112
MU	Established January 3, 1922 _____ University of Alabama 304 Thomas Street, Tuscaloosa, Alabama 35401* Adviser: PROF. WILLIAM K. REY, P. O. Box 664, University, Alabama 35486
XI	Established January 13, 1923 _____ University of Wisconsin 1633-35 Monroe Street, Madison, Wisconsin 53711* Adviser: DR. JOHN W. MITCHELL, Department of Mechanical Engineering, University of Wisconsin, Madison, Wisconsin 53706
OMICRON	Established February 3, 1923 _____ University of Iowa Theta Tau Box, Engineering Building, Iowa City, Iowa 52240 Adviser: DR. DONALD H. MADSEN, Engineering Building, Iowa City, Iowa 52240
PI	Established May 26, 1923 _____ University of Virginia Thornton Hall, University of Virginia, Charlottesville, Virginia 22903 Adviser: DR. GEORGE B. MATTHEWS, Department of Aerospace Engineering, University of Virginia, Charlottesville, Virginia 22903
RHO	Established February 16, 1924 _____ North Carolina State University P. O. Box 5282, State College Station, Raleigh, North Carolina 27607 Adviser: DR. CLIFFORD J. MOORE, JR., 4709 Stonehill Drive, Raleigh, North Carolina 27609
SIGMA	Established November 29, 1924 _____ Ohio State University 1946 Indianola Avenue, Columbus, Ohio 43201* Adviser: JAY P. MITCHELL, 52 W. California Ave., Columbus, Ohio 43202

FALL 1968

TAU	Established December 12, 1925 Bldg. 6, College of Engineering, Syracuse U., Syracuse, N.Y. 13210 Adviser: PROF. CARLOS P. BUCK, Associate Dean, College of Engineering, Syracuse University, Syracuse, New York 13210	Syracuse University
UPSILON	Established April 7, 1928 763 West Dickson Street, Fayetteville, Arkansas 72701* Adviser: PROF. JON H. ARIN, Mechanical Engineering Department, University of Arkansas, Fayetteville, Arkansas 72701	University of Arkansas
PHI	Established April 21, 1928 416 North Chauncey Avenue, West Lafayette, Indiana 47906* Adviser: DR. JOSEPH T. PEARSON, Mechanical Engineering Department, Purdue University, West Lafayette, Indiana 47906	Purdue University
CHI	Established April 23, 1930 1614 East Speedway Boulevard, Tucson, Arizona 85719* Adviser: PROF. PHILIP B. NEWLIN, Civil Engineering Department, University of Arizona, Tucson, Arizona 85719	University of Arizona
PSI	Established May 7, 1932 Residence Hall, Montana College of Mineral Science & Technology, Butte, Montana 59701 Adviser: PROF. WILLIAM J. VAN MATRE, Department of Mining Engineering, Montana College of Mineral Science & Technology, Butte, Montana 59701	Montana College of Mineral Science & Technology
OMEGA	Established March 26, 1932 107 Kansas City Street, Rapid City, South Dakota 57701* Adviser: DR. A. L. RIEMENSCHNEIDER, 2428 Woodland Dr., Rapid City, S. D. 57704	South Dakota School of Mines and Technology
GAMMA BETA	Established March 16, 1935 Theta Tau, Davis-Hodgkins House, 731 - 22nd Street, N.W., Washington, D.C. 20006 Adviser: DR. HERBERT E. SMITH, School of Engineering and Applied Science, The George Washington University, Washington, D.C. 20006	The George Washington University
DELTA BETA	Established May 20, 1939 2106 Confederate Place, Louisville, Kentucky 40208* Adviser: STEPHEN M. THRASHER, JR., 4313 Estate Dr., Louisville, Ky. 40218	University of Louisville
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ZETA BETA	Established May 7, 1960 Box 254, Union Building, Utah State University, Logan, Utah 84321	Utah State University
ETA BETA	Established May 13, 1961 2551 North MacGregor, Houston, Texas 77004* Adviser: PROF. WILLIAM J. LEACH, Assistant Dean, Cullen College of Engineering, University of Houston, Houston, Texas 77004	University of Houston
THETA BETA	Established March 2, 1963 Room 217, General Engineering Bldg., U. of Washington, Seattle, Washington 98105 Adviser: PROF. W. BURNETT BONOW, General Engineering, University of Washington, Seattle, Washington 98105	University of Washington
IOTA BETA	Established February 15, 1964 Theta Tau, University of Detroit, Detroit, Michigan 48221 Adviser: DR. LAWRENCE N. CANJAR, Dean of Engineering, University of Detroit, Detroit, Michigan 48221	University of Detroit
KAPPA BETA	Established November 21, 1964 200 Hillside Drive, Starkville, Mississippi 39759* Adviser: DR. FRANK M. INCELA, Box 2097, State College, Mississippi 39762	Mississippi State University
LAMBDA BETA	Established September 28, 1968 531 North Dixie Avenue, Cookeville, Tennessee 38501* Adviser: DR. GEORGE B. BUCHANAN, Route 2, Baxter, Tenn. 35844	Tennessee Technological University

COLONY

GMI	Certified September 25, 1965 1212 North Ballenger, Flint, Michigan 48504* Adviser: PROF. JAMES B. BAY, 3202 Briarwood Dr., Flint, Mich. 48507	General Motors Institute
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NOTICE OF ALUMNUS ADDRESS

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.

Name _____ Chapter _____ Class
Year _____

Street _____

City _____ State _____ ZIP Code _____

Reported by _____ Chapter _____ Class
Year _____

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Be sure the Theta Taus you know are receiving THE GEAR.

RECOMMENDED STUDENTS

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

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

Name _____ School _____

Mailing Address _____ Major _____

Expected Graduation Date _____

Remarks:

Signed _____ Chapter _____ Year _____

NOTICE OF DECEASED MEMBER

Please give as complete information as possible, including biographical data known, clippings, etc. Send to THE GEAR OF THETA TAU, 7421 Village Drive, Prairie Village, Kansas 66208, or to the Central Office.

Name _____ Chapter _____ Class
Year _____

Address _____

Date and place of death _____

Name and address of nearest relative _____

Reported by _____ Chapter _____

Address _____

Relationship to deceased _____

CHANGE OF ADDRESS NOTICE

Send to Theta Tau Central Office, 13 Sona Lane, St. Louis, Missouri 63141.

Name _____ Chapter _____ Class _____
Year _____

Old address:

Street _____

City _____ State _____ ZIP Code _____

New address:

Street _____

City _____ State _____ ZIP Code _____

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

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City _____ State _____ ZIP Code _____

GIFTS TO THETA TAU

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

I enclose the following contribution to Theta Tau:

As an unrestricted gift \$ _____

For the Founders' Memorial Fund \$ _____

Name _____ Chapter _____ Class _____
Year _____

Street _____

City _____ State _____ ZIP Code _____

ALUMNI NEWS

THE GEAR needs news about you and other alumni. Include promotions, job changes, professional honors, family news. Send to THE GEAR OF THETA TAU, 7421 Village Drive, Prairie Village, Kansas 66208, or to the Central Office.

Name _____ Chapter _____ Class _____
Year _____

Address _____

News of yourself and/or others _____

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13 SONA LANE
SAINT LOUIS, MISSOURI 63141

LET OTHERS KNOW YOU'RE A THETA TAU!

The following items are available from the Central
Office:

Replacement shingle (membership certificate—not shown)	\$1.25
Book matches with full color coat of arms	
Box of 50	1.00
Ten boxes	9.50
Ball point pen with Theta Tau imprint	0.50
Coat of arms blazer emblem	1.50
Greek letter decal (package of two)	0.10
Coat of arms decal	0.10
Black plastic portfolio—imprinted	1.00

Payment should accompany order sent to the Theta
Tau Central Office, 13 Sona Lane, Saint Louis,
Missouri 63141.

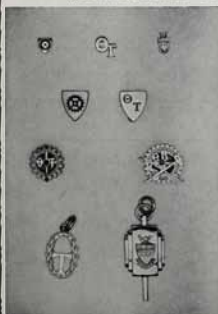


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Pledge button* (Row two, left)	0.75
Pledge pin*	1.00
Colony pin (Row two, right)	1.25
Sister pin* (Row three, left)	
Close set pearls	13.00
Crown set pearls	14.75
Badge* (Row three, right)	
Close set pearls	10.25
Crown set pearls	14.00
Alumni charm (Lower left)	4.25
Award key, gold plated (Lower right)	5.50
Award key, 10K gold	8.50
Founders' size coat of arms (Plain or with ring at top)	
Bronze or nickel	1.75
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Prices do not include state and local sales and use taxes.

* Official jewelry may be ordered only through the Theta Tau Central Office, 13 Sona Lane, St. Louis, Missouri 63141.