

FALL 1965

VOLUME LV

NUMBER 1



**The GEAR**  
**of THETA TAU**

## CONVENTION SOUVENIRS, THETA TAU MATCHES AND PENS AVAILABLE

If you missed the last Theta Tau Convention, you can still obtain one of the Sixtieth Anniversary souvenir glass trays provided each member attending the Convention Banquet—a lasting memento of a historic Theta Tau occasion. This is a fine desk accessory featuring the Fraternity coat of arms in gold with appropriate inscription—ideal as an ash tray or for clips, stamps, etc. It also makes a nice remembrance for a Theta Tau brother. Also available postpaid are special Theta Tau book matches and gold-colored ball point pens appropriately inscribed.

Sixtieth Anniversary souvenir tray \$1.00

Theta Tau matches (50 books/box),

1 to 5 boxes .80 each

6 or more boxes .75 each

Theta Tau ball point pen .40

Payment should accompany order sent to the Theta Tau Central Office, 13 Soma Lane, St. Louis, Missouri 63141.



## JEWELRY AVAILABLE THROUGH CENTRAL OFFICE



### OFFICIAL JEWELRY:

Badge with close set pearls (Row three, right)	\$ 9.50
Badge with crown set pearls	13.00
Sister pin with close set pearls (Row three, left)	12.25
Sister pin with crown set pearls	13.75
Pledge button (Row two, left)	0.75
Pledge pin	1.00
Official recognition button (Top row, left)	1.00

### OTHER JEWELRY:

Greek letter recognition button (Top row, center)	1.25
Coat of arms recognition button (Top row, right)	1.25
Alumni charms (Bottom row, left)	3.50
Award key, gold plated (Bottom row, right)	5.50
Award key, 10k gold	7.25
Colony pin (Row two, right)	1.25
Founders' size coat of arms (Plain or with ring at top)	
Bronze or nickel	1.75
Sterling silver or gold plated	2.00
1/20-10k yellow gold filled	3.75
10k yellow gold	18.00

Prices do not include state and local sales and use taxes.

Official jewelry may be ordered only through the Theta Tau Central Office, 13 Soma Lane, St. Louis, Missouri 63141.

## IMPORTANT NOTICE TO ALUMNI

Beginning with the Fall 1963 issue of THE GEAR, we modified our policy for those alumni who move without notifying THE GEAR office of their new mailing addresses. If your GEAR is returned to us with a new address written on it, we will automatically place you on the mailing list for the next issue. If a returned GEAR has no forwarding address on it, we will seek your current address by first class letter. Because of the high postal rates, we will not remail the current issue to you as in the past. In all cases we will attempt to keep you on the mailing list.



# The Gear of Theta Tau

FALL 1965

VOLUME LV NUMBER 1

## Board of Editors

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

J. W. HOWE

## Contents

Our First Colony is at GMI	2
Computer Plays Cupid at U. of Detroit Chapter	4
Reynolds and Payne Serve Theta Tau	6
Alumni News	7
<i>Dr. Revell an Outstanding Scientific Administrator</i>	7
<i>Civilian LeMay Still Goes at Fast Pace</i>	9
<i>James A. Conant is President of Case Alumni</i>	9
<i>NSPE Honors C. Maxwell Stanley for Service</i>	10
<i>Ernest C. Gaston Honored by Alma Mater</i>	10
<i>Nation's Youngest Astronaut is Joe H. Engle</i>	11
<i>Francis M. Rich Retires at Wheeling Steel</i>	12
<i>Prentiss Receives Highway Progress Award</i>	13
<i>Frontier Refining Has "Bud" Robineau as President</i>	14
<i>Aeroglide Corporation Has Kelly in Pilot's Seat</i>	15
<i>Dr. Van de Graaff is Awarded Another Degree</i>	15
In Memoriam	16
Alumni Notes	19
Contributors to Theta Tau Progress	48
25 and 50 Years Ago in Theta Tau	49
Chapter News	50
Additions to Membership	60
Theta Tau Directory	63

*Photo Credits: Page 7, Harvard University; page 10, Bob McCormack (courtesy NSPE); page 11, US Air Force; page 12, Inland Steel Company; page 28, US Army; page 34, Grigg Studio; page 36, Consumers Power Company.*

• THE GEAR is the official publication of Theta Tau, national professional engineering fraternity. It is published fall and spring. The magazine is devoted to matters of Fraternity interest and is sent at no cost to alumni whose addresses are on record at THE GEAR office. • Send change of address, editorial, and business correspondence to the Editor-in-Chief, William E. Franklin, 7460 Village Drive, Shawnee Mission, Kansas 66205. • THE GEAR is printed by Allen Press Inc., Lawrence, Kansas. Third class postage has been paid at Lawrence, Kansas.

## Our First Colony is at GMI

*One of the important pieces of legislation to come out of the Biennial Convention in December 1964 was a colony program. The colony system is used by a large number of fraternities.*

*To become a colony of Theta Tau, a local professional engineering fraternity must petition the Executive Council for certification. The requirements for certification as a colony are consistent with those that a local group must meet when petitioning for an official chapter status.*

*If the Executive Council approves the petition, the local group enjoys a close official tie with the Fraternity during the period of its preparation to become a chapter of Theta Tau. In the past such groups could be formed and could work toward eventual affiliation with the Fraternity, but there was not an official intermediate step through which the group could be recognized.*

*Now a local engineering fraternity may identify itself with Theta Tau and declare its intention of seeking affiliation as a chapter of the national Fraternity. When an organization has been designated as a Theta Tau colony, its members wear an official colony badge purchased through the Central Office. Colony members are equivalent to pledges of a Theta Tau chapter.*

*A colony may use nonsecret Fraternity publications and may purchase copies of THE GEAR.*

*The colony has three years in which to demonstrate its stability and continuity and to achieve the results desired—successfully petitioning to be a chapter. There are no guarantees, of course, for either the colony or its members, but the colony system will encourage both the local group and national Fraternity to share a strong interest in reaching the desired goal. Theta Tau will do its part through mail contact and frequent personal visits by national officers and other members.*

—WEF

On September 25, 1965, Phi Epsilon engineering fraternity at General Motors Institute was certified as Theta Tau's first colony. With guidance from the national Fraternity, the group will continue to work toward becoming a Theta Tau chapter.

General Motors Institute is located in Flint, Michigan. It offers a five-year engineering program leading to degrees of bachelor of electrical, industrial, and mechanical engineering. The school is accredited by the North Central Association of Colleges and Secondary Schools, but is not yet accredited by ECPD.



John Murray, President of "B" Section, and Bob Heyman, President of "A" Section, GMI Colony, receive the Colony Certificate from Robert E. Pope, Executive Secretary.

Students at GMI spend their first four years in alternating six-week periods of study at the Institute and work in a unit of General Electric. Students are divided into two sections—A and B. The final year is spent in intensive study in one of three plans. There are 2500 students at GMI at present.

Phi Epsilon was organized on March 15, 1964, with the specific objective of petitioning Theta Tau. Donald Antonow, *Epsilon Beta '66*, a transfer student from Wayne



**GMI Colony of Theta Tau**

*Front row:* Robert J. Heyman; Louis W. Petro; Ronald R. Coussens; Phillip L. Bailey; Donald W. Antonow; Glen Stephens. *Second row:* Dennis A. Hall; David J. Bauer; William A. Fleury; William R. Stackhouse; James E. Bailey; Thomas A. Dow; Edward F. Nitka, II. *Third row:* Thomas C. Downs; Cleon C. McLaughlin; John P. Bas; Michael G. King; Harry E. Wood; Phillip J. Majka; Walter L. Zych; Francis N. Stavale; Raymond G. Vorthman. *Back row:* Wayne A. Noll; Otto W. Pfahl, Jr.; David N. Pocock; Daniel E. Phelka; John T. Murray; Deau W. Bell; James L. Koss; Thomas A. Mast.

State, organized the group in Section A with assistance from John Bas. In August 1964 the fraternity was organized in B Section with leadership from John Murray. This group was fully coordinated with the Section A organization in the same manner as that followed by other GMI student organizations.

James B. Bay, *Michigan Tech '54*, chairman of the Mechanical Engineering Laboratories Department, agreed to serve as adviser to Phi Upsilon. Dr. George G. Dodd, Central Regional Director, also provided guidance for the group.

Phi Epsilon developed an active program of professional development, rushing, social activities, and intramural sports. The group petitioned Theta Tau for recognition as a colony last summer, and was approved by the required vote of Executive Council members.

The certification ceremony was held at Higgins Restaurant in Flint, with Robert E. Pope, Executive Secretary, presiding.

Other members of the certification team were James B. Bay, Dr. George G. Dodd, Donald W. Antonow, and Robert R. Purcell, *Iota Beta '68*. Chapters represented by students and alumni were Zeta, Iota, Rho, Epsilon Beta, and Iota Beta.

Certified as members of the colony were John Paul Bas; John Thomas Murray; James Edward Bailey; Phillip Lee Bailey; David John Bauer; Dean Ward Bell; Ronald Richard Coussens; Thomas Allen Dow; Thomas Clinton Downs; William Anthony Fleury; Dennis Alan Hall; Michael Glen King; James Leon Koss; Phillip Joseph Majka; Thomas Alan Mast; Cleon Crosby McLaughlin; Edward Frank Nitka, II; Wayne Allen Noll; Louis William Petro; Otto Walter Pfahl, Jr.; Daniel Edward Phelka; David Noel Pocock; William Robert Stackhouse; Francis Natale Stavale; Glen Stephens; Raymond Gordon Vorthman; Harry Eugene Wood; Walter Lawrence Zych; and Robert James Heyman.

Nine men who could not be present and

who will be certified later are: Russell Calvin Anderson; Jack Elbert Brown; Howard John Cain; Peter Francis Hailer; Michael Baker Mivelaz; Charles Kenneth Poin-dexter, Jr.; Michael Van Romig; Karl Lee Swartout; and Dale Martin Trapp.

Following the ceremonies a banquet was held at the restaurant. James Bay served as toastmaster, and the invocation was given by Donald Antonow. Following introductions of guests and new Colony members, greeting from GMI were brought by Harold M. Dent, director of academic programs, and by Dr. Albert J. Kubany, assistant director of student relations.

Greetings from Theta Tau were expressed

by Ronald C. Read, Regent of Iota Beta Chapter, and by Thomas M. Roberts, Regent of Epsilon Beta Chapter.

Robert E. Pope then expressed his congratulations and presented the Colony certificate to Robert J. Heyman, president of A Section, and John T. Murray, president of B Section. The Colony presidents responded on behalf of their groups.

The main address of the evening was given by Dr. George Dodd, senior research engineer at General Motors Research Laboratories. It was entitled, "Evolution of Engineering and Theta Tau." As the program closed, John Murray presented GMI souvenir ash trays to Brothers Pope and Dodd, the national officers present.

## Computer Plays Cupid at U. of Detroit Chapter

by Paul L. Sak, Iota Beta '69

This fall at the University of Detroit, the fabled Cupid took on a completely new disguise. Assisted by Iota Beta Chapter and Delta Zeta, national sorority, Cupid exchanged his bow and arrows for a computer program and a stack of IBM cards. The result was the most successful dance ever held at the University of Detroit. This was the first and, we hope, annual Computer Dance of 1965.

The process behind a computer dance begins when the young men and women who desire to be romanced through a computer fill out a questionnaire of forty questions. The questions range from height and age to political preference and study habits. The cards are then keypunched and finally fed through the computer. The anxious students are then notified and it's up to the young men to call their "perfect match" and arrange all the other details. Now if a computer dance were really this easy, who would complain? However, as you will see, the problems encountered were almost too much to overcome.

The idea of holding a computer dance was conceived last summer in the minds

of the brothers of Iota Beta Chapter. Needing a cosponsor, the members of Delta Zeta were contacted to add their feminine touch to the publicity and decoration committees. Regent Ronald Read, with the help of alumnus Brother Edward Paddock, split the planning of the dance into five committees: computer, publicity, financial, decorations, and entertainment. The pre-dance work had now begun.

The computer committee was responsible for writing the computer program, finding a computer, and key-punching the cards. Brother Allen Shabet came to the rescue and after many hours of tedious work, the program was written and a computer and key-punch were found. With help from Delta Zeta, the publicity and decoration committees fulfilled their duty with posters, banners, leaflets, word-of-mouth, and newspaper articles. The financial committee, headed by Brother Michael Walsh, set the prices, arranged for the collection of money, and made sure no committee was spending too much of our anticipated profit. When the entertainment committee was able to find a band, along with a few other sur-



Should a gorilla offer his lady a cigar? Ask Brothers Daniel Gaulin and Jess Solomon.

prises, the computer dance was finally taking shape and becoming a reality.

With the arrival of the members not in Detroit during the summer, Iota Beta Chapter was now at full strength and the final, all-out effort was launched. The questionnaires were distributed around campus and everything looked fine. However, the road became a little rocky when after three days, one hundred U-D males returned their answers in comparison to the ten U-D females. Having been subjected to such odds before, the more socially minded brothers of Iota Beta came to the rescue. Young maidens were contacted from nearby schools, who in turn contacted even more young maidens. When the deadline for returning the questionnaires came, the members were able to breathe a little more easily for approximately five hundred and fifty couples were matched with only ninety young men lacking a member of the fair sex.

The final job of key-punching was then finished and the IBM cards now had to be processed through the computer. Not trusting the U.S. mail, though, with such important material, Brothers Norm Beloin and Robert Purcell left in Norm's 1957 Volkswagen for the round trip to Brother Allen Shabet in New York. When they returned with the list of the matched couples, the lucky young men and women were notified and all we could do was wait for the night of the famed Computer Dance of 1965.

The culmination of all effort of the past four months came on September 17 at 8:30 p.m. A woman reporter from the *Detroit News* attended the dance, insuring us of some publicity after the dance. She was quite impressed with the dance and stated in her column: "It was a lovely dance and for almost everyone the evening was a success." All the couples had a lovely time,

even though there were some mismatches. Perhaps the greatest mismatch came when Brothers Daniel Gaulin and Jess Solomon, dressed as King Kong and a fair young maiden, respectively, made their debut. Other entertainment was provided by an excellent dance band and a student folk-singer.

The Computer Dance of 1965 was indeed a true success. All the sweat and tears put into the dance were now forgotten. Iota Beta Chapter had fulfilled the dream of holding the first computer dance at the University of Detroit. The congratulations and comments on the dance have not stopped yet, making the brothers of Iota Beta Chapter proudly state, "We are the brothers of Theta Tau, the fraternity on campus."

Brother Michael Walsh, Iota Beta, balances the books.



## Reynolds and Payne Serve Theta Tau

The Executive Council has appointed two men to serve the Fraternity in their regions. They are James L. Reynolds, *Minnesota '58*, Northern Regional Director; and Jack E. Payne, *Utah '62*, Special Representative for California.



**James L. Reynolds**

Brother Reynolds is an instructor in the Mechanical Engineering Department at the University of Minnesota; he also is a management consultant. He received his B.M.E. degree at Minnesota in 1958 and his M.S.I.E. there in 1962. His technical societies include the American Institute of Industrial Engineers and the American Society of Mechanical Engineers, which he serves as a regional director. He is a registered professional engineer in Minnesota.

Brother Reynolds served Alpha Chapter as historian while an undergraduate. He is single and lists skiing as his hobby.



**Jack E. Payne**

Jack Payne was appointed to assist Epsilon Chapter in the difficult situation at Berkeley. He is a manufacturing engineer for IBM in San Jose.

Brother Payne attended El Camino Junior College and received his B.S.M.E. degree from the University of Utah in 1962. His M.S.M.E. was awarded by the same school in 1964. He is a member of Phi Tau Sigma and Sigma Psi honor societies.

His technical societies are the American Institute of Industrial Engineers and the American Society of Mechanical Engineers.

At the University of Utah Brother Payne served Lambda Chapter as pledge master and publicity chairman. He helped start the *Utechnic* engineering magazine at Utah, and was editor-in-chief. In 1963 and 1964 he was faculty adviser for the magazine.

Brother Payne's favorite sports are basketball and golf.





## Alumni News

---

### Dr. Revelle an Outstanding Scientific Administrator

DR. ROGER REVELLE, *California (Berkeley)* '29, one of the nation's leading scientific administrators, is the director of the new Center for Population Studies in the Harvard University School of Public Health. He holds the new Richard Saltonstall Professorship of Population Policy, and directs Harvard's research, teaching, and public service in population studies.

Brother Revelle is internationally known for his investigations of the physical nature of oceans, and in recent years has devoted much of his time to the problems of developing countries, particularly those where populations are increasing at a faster rate than economic growth. Before going to Harvard, he was dean of research for the University of California and director of the Scripps Institution of Oceanography.

Brother Revelle received his A.B. degree from Pomona College in 1929, studied at Claremont College, and received the Ph.D. in 1936 from the University of California. He joined Scripps in 1931, and became its director in 1951. He played a major role in planning the new University of California at San Diego and in recruiting faculty for it. The first college on the campus was dedicated and named "Revelle College" on October 1, 1965.

His early oceanographic research involved the analysis of deep sea cores, the measurement of bottom currents and studies of the physical and chemical processes in sea water. More recently he studied the exchange of carbon dioxide between the ocean and the atmosphere. Among his recent achievements is the development, with Sir Edward Bullard and Dr. Arthur Maxwell, of methods to measure the flow of heat from the earth's interior out through



the floor of the ocean. The measurements, made during oceanographic expeditions to the Central and South Pacific, provide strong supporting evidence that the earth began as a cool rather than a hot body.

During World War II Brother Revelle served as a commander in the U.S. Navy. During 1946-47, he headed the Geophysics Branch of the Office of Naval Research and organized the oceanographic investigations for Operation Crossroads, the 1946 atomic bomb test at Bikini Lagoon.

Brother Revelle has served in many capacities on both national and international committees and conferences. From 1961-1963 he was science advisor to the Secretary of the Interior.

He headed a panel of experts which studied the problems of land and water development in the great Indus River basin of West Pakistan. In recognition of this

work, he was decorated in 1964 with the order of "Sitara-i-Imtiaz" by the President of Pakistan.

In 1958 he became a member of the U.S. National Commission for UNESCO, and later was elected vice chairman of the commission and chairman of its Committee on Natural and Social Sciences. He was one of the U.S. representatives at the General Conference of UNESCO in 1960, and at the General Assemblies of the International Council of Scientific Unions in 1958, 1961, and 1963.

Brother Revelle was a member of the U.S. delegation to the first Atoms for Peace Conference in Geneva in 1955 and to the United Nations Conference on Application of Science and Technology for the Benefit of the Less Developed Countries in 1963. He was one of four international advisors to a conference in Beirut last year on organizing national scientific efforts in the countries of North Africa and the Middle East.

He attended the "Pugwash" meetings of scientists from both sides of the Iron Curtain in 1960, 1961, 1962, and 1964.

As an oceanographer, he has organized a series of cooperative research projects, such as the NORPAC expedition, which involved nearly simultaneous measurements of properties of the North Pacific by 20 research vessels. He was instrumental in planning and organizing the oceanographic program of the International Geophysical Year.

Brother Revelle was the United States member of an International Advisory Committee on Marine Sciences formed in 1955 by UNESCO. Later he became president of the Special Committee on Oceanic Research organized by the International Council of Scientific Unions. These committees worked with the American Association for the Advancement of Science to organize and conduct the first International Oceanographic Congress at the United Nations in 1959. He was president of the Congress, which brought together 1,500 scientists from all parts of the world. He

was instrumental in founding the Inter-governmental Oceanographic Commission. He was chairman of the U.S. delegation to the Commission in 1961, and is currently president of the International Association of Physical Oceanography.

He was appointed by the Secretary of State in 1961 as chairman of the joint U.S.-Japan Committee on Scientific Cooperation's Panel on Scientific Studies of the Pacific Basin.

Within the United States, Brother Revelle is a member of the International Science Panel of the President's Science Advisory Committee, the Research Advisory Committee of the Agency for International Development, the Advisory Board to the Foreign Secretary of the National Academy of Sciences, and the Naval Research Advisory Committee.

He was elected to the National Academy of Sciences in 1957 and to the Council of the Academy in 1962. He has served as chairman of the Academy's Section of Geophysics, and is chairman of the Committee on the International Biological Program. In 1963 the Academy gave him its Agassiz Medal for "outstanding achievement in oceanography."

He is a member of the Advisory Group on Domestic Affairs for President Johnson and is a member of the Indian Education Commission. Brother Revelle is a Fellow of the San Diego Society of Natural History and of the Geological Society of America. He is a member of the American Association of Petroleum Geologists, the American Geophysical Union, the American Academy of Arts and Sciences, the American Association for the Advancement of Science, the American Philosophical Society, the American Meteorological Society, the Society of Limnology and Oceanography, the Geological Society of Washington, the Western Society of Naturalists, Sigma Xi, and several clubs. He has been awarded the Albatross Medal of the Swedish Royal Society of Science and Letters.

Brother Revelle is married and has four children and eight grandchildren.

## Civilian LeMay Still Goes at Fast Pace



GENERAL CURTIS E. LEMAY, *Ohio State '29*, retired chief of staff of the U.S. Air Force, has been leading an active life in "retirement." He has been elected chairman and chief operating officer of Networks Electronic Corporation, a Chatsworth, California maker of infrared detectors and electronic components.

Brother LeMay's book, *Mission with LeMay*, written with MacKinlay Kantor, was published in November by Doubleday & Company. In it he devotes about a page to his membership in Sigma Chapter of Theta Tau at Ohio State. He says, "I thought that belonging to Theta Tau would be a part of my education, and was worth the investment. Couldn't have been more correct." Brother LeMay describes favorably living in the house, assistance with studies from the members, the professional program, and the social side. He relates humorously and with approval an incident when he was required to take a dancing lesson and attend his first dance.

Additional honors have been bestowed upon Brother LeMay since his retirement. He received the 1965 Collier trophy, one of aviation's top honors. On November 9 he was made a grand officer of the French legion of honor. It is the second highest rank and was accorded with approval by President Charles de Gaulle. The honor was presented in full dress ceremonies at Air Force headquarters near Paris.

The September 1965 *National Geographic* features an article by Brother LeMay entitled "U.S. Air Force: Power for Peace." He has been a trustee of the National Geographic Society for 14 years.

## James A. Conant is President of Case Alumni

JAMES A. CONANT, *Case '46*, has been elected president of the Case Alumni Association. He is vice president of Vogt and Conant Company of Cleveland, one of the major steel and machinery erecting firms in the country.

Following his graduation from Case, Brother Conant was employed by the Sam W. Emerson Company in Cleveland. In 1947 he entered Harvard Business School and graduated with a master's degree in

business administration in 1949. He then joined the Vogt and Conant Company as an engineer. In 1958 he became assistant secretary and assistant treasurer of the firm, and in 1961, vice president.

He is president of the Iron and Steel Group of the Building Trades Employers Association, and is a member of Phi Kappa Psi and other organizations. Brother Conant is married and the father of four children.

## NSPE Honors C. Maxwell Stanley for Service

C. MAXWELL STANLEY, Iowa '26, has been honored with the 1965 National Society of Professional Engineers Award for outstanding service to the engineering profession. Brother Stanley is president of Stanley Engineering Company in Muscatine, Iowa, and is a prominent consulting engineer, author, public speaker, businessman, world traveler, and advocate of world peace. (See the Spring 1964 GEAR.)

Brother Stanley became half owner and general manager of Young and Stanley, Inc. in 1932; the firm became Stanley Engineering Company in 1939. He expanded the original two-man organization into an operation with a staff of 300. Two subsidiaries handle international operations.

His many honors include the Alfred Noble prize (1933), the Collingwood prize (1935), and the John Dunlap Award (1943)—all for technical papers. He received the Anson Marston Award (1948) for Outstanding Service and the Distinguished Service Award (1962) from the Iowa Engineering Society.

Brother Stanley's interest in world affairs has included serving as president of the United World Federalists.



He is a member of the ASCE, the ASME, the IEEE, the NSPE, and the Iowa Engineering Society. He is a registered professional engineer in 16 states and the District of Columbia.

## Ernest C. Gaston Honored by Alma Mater

ERNEST C. GASTON, Alabama '23, was awarded an honorary doctor of science degree by the University of Alabama on May 30, 1965. He is president of Southern Services, Inc., Birmingham, Alabama.

Brother Gaston was first employed by the Dixie Construction Company. In 1930 that company was dissolved, and he transferred to its successor, Allied Engineers, Inc., where he was in charge of the mechanical design of steam plants. When Allied Engineers was merged into the Engineering Department of the Commonwealth and Southern Corporation, Brother Gaston was assigned to the supervisory engineering

staff, and in 1939 he was promoted to chief design engineer.

The Commonwealth and Southern Company was dissolved in 1949, but the Engineering Department remained intact and performed the same functions for a new company, Southern Services, Inc., with Brother Gaston continuing to serve as chief design engineer. In this capacity he had the general responsibility for the supervision and design of 53 steam generating plants in six states.

In 1952 Brother Gaston was elected vice president, chief engineer, and a director of Southern Services; in 1957 he became presi-

dent of the company. On October 6, 1964, a large steam plant at Wilsonville, Alabama was dedicated as the Ernest C. Gaston Steam Plant.

Brother Gaston is a director of the Mississippi Power Company; Southern Electric Generating Company; Atomic Power Development Associates, Inc.; Atomic Industrial Forum, Inc.; and the Southern Company, of which he has recently been named vice president for engineering. He served as president of the Southern Electric Generating Company from September 1962 to December 1963. He is a member of the board of trustees and executive committee for High Temperature Reactor Develop-

ment Associates, Inc., and the Power Reactor Development Company.

He has served as president of the Engineers Club of Birmingham, chairman of the Engineering Council of Birmingham and Jefferson County, and is a member of the ASME.

His awards include the George Westinghouse Medal Award (1960) from the ASME for "distinguished achievements and notable contributions to the power field of mechanical engineering." In 1963 he was awarded a fellowship membership certificate in the ASME, and he received the Engineer of the Year Award for 1962-63 from the Alabama Chapter of the NSPE.

## Nation's Youngest Astronaut is Joe H. Engle

CAPT. JOE H. ENGLE, *Kansas '55*, qualified as the nation's youngest astronaut last June 29, when he flew the X-15 aircraft to an altitude of 53 miles. He is the third Air Force X-15 pilot to attain the astronaut rating, which is awarded to military pilots for flying 50 miles or more high.

Brother Engle's astronaut wings were awarded at a ceremony at the Pentagon on July 15. Lt. Col. Edward H. White and Lt. Col. James A. McDivitt, pilots of the Gemini 4, were honored at the same ceremonies.

Other recent honors include his selection as an "Outstanding Young Man of 1964" by the U.S. Junior Chamber of Commerce (see the Spring 1965 *GEAR*), and the Air Force Association's "Outstanding Young Air Force Officer of 1964" for his work as an aerospace research pilot.

On Labor Day Brother Engle returned to his hometown, Chapman, Kansas, for the celebration of "Captain Joe Engle Day." Events there included a parade and a night show. The Governor of Kansas was among those present.

Brother Engle is married and has a son and daughter.



Capt. Joe Engle is greeted by his wife, Mary, and children, Laurie and Jon. Brother Engle had just completed a 53-mile high flight, making him the nation's youngest and newest astronaut at 32.

## Francis M. Rich Retires at Wheeling Steel

FRANCIS M. RICH, *Illinois '25*, retired August 1, 1965 as vice chairman of Wheeling Steel Corporation. He had been president and chief executive officer of the corporation until June 1, 1965.

Brother Rich began his 40-year career in the iron and steel industry at the South Works of the Illinois Steel Company (now the U.S. Steel Corporation). In 1929 he joined the Wisconsin Steel Company as assistant to the open hearth superintendent. He later joined the Youngstown Sheet and Tube Company of Ohio, and then the Republic Steel Corporation, where he served as superintendent of the blast furnaces of Republic's Buffalo District until 1938.

He then accepted the position of assistant to the vice president and works manager of the Steel Company of Canada, Ltd., and in 1943 he was made assistant works manager of the Hamilton Works of that company. In 1946, Brother Rich became vice president in charge of operations at the Fontana Plant of Kaiser Steel Corporation, Fontana, California.

In 1950 Brother Rich accepted the position of general manager, Indiana Harbor Works, for Inland Steel Company. He became vice president for steel manufacturing of that company in 1959.

Brother Rich joined Wheeling Steel Corporation in 1961 as vice president for planning. In 1963 he became vice president for sales, and in 1964 he became president and chief executive officer.

In 1958 he was a member of the 19-man steel and ore delegation that visited the Soviet Union, and he presented a paper on the findings of the delegation before the Annual Meeting of the American Iron and Steel Institute.

Brother Rich is a director of the Pitts-



burgh and West Virginia Railway and the Half Dollar Trust and Savings Bank of Wheeling.

He is a member of the Iron and Steel Institute and has served on its board of directors and executive committee. He is also a member of the American Iron and Steel Engineers, the AIME, the Eastern States and Western States Blast Furnace and Coke Associations, and several clubs. He is a former vice president and trustee of Beta Theta Pi Fraternity.

In 1935 Brother Rich received the J. E. Johnson, Jr. Award of the American Society of Mining and Metallurgical Engineers for his efforts in blast furnace development and improved production methods.

Brother Rich is married and has two married daughters and a son who is a student at West Virginia University.

### REPLACEMENT SHINGLES

**Alumni and active members:** You may obtain a replacement "shingle" through the Central Office if your original has been lost or if you have changed your name. The cost is \$1.25. Direct all requests to Robert E. Pope, Executive Secretary, 13 Sona Lane, Saint Louis, Missouri 63141.

## Prentiss Receives Highway Progress Award

LOUIS W. PRENTISS, *Colorado Mines '21*, has received the annual George S. Bartlett Award for "outstanding contribution to highway progress" presented by the American Association of State Highway Officials. Brother Prentiss is executive vice president of the American Road Builders' Association in Washington, D. C.

Before entering the highway field, Brother Prentiss had a successful career in the Army Corps of Engineers, attaining the rank of major general. He was commissioned a second lieutenant in the Field Artillery upon graduation from Colorado School of Mines. In 1929 he transferred to the Corps of Engineers. He is a graduate of the Engineer School, Fort Humphreys, and the Command and General Staff School, Fort Leavenworth.

Before World War II Brother Prentiss was operations officer in the Omaha District, supervising construction of river improvements on the Missouri River. From 1941 to 1944 he was battalion commander, director of military training, and executive officer at the Engineer Replacement Center, Fort Belvoir, Virginia.

In 1944 he was in the Office of the Director of Training for the Army Service Forces in Washington, D. C. In 1944 and 1945 he was chief of the Supply Division, Office of the Engineer, Communication Zone, Paris, France. He then served as deputy chief engineer and acting chief engineer from 1945 to 1947 in the U. S. Forces European Theatre, Frankfurt, Germany.

Back in the United States in 1947, Brother Prentiss was district engineer for the Omaha District, which involved supervision of flood control and river and harbor work on the Missouri River and tributaries in South Dakota, Nebraska, Iowa, and Missouri. He was also in charge of military and Air Force construction in Minnesota, Iowa, South Dakota, Missouri, Kansas, and Nebraska.

In 1949 he was named division engineer



for the Southwestern Division in Dallas, Texas. His duties there covered Texas, New Mexico, Oklahoma, and parts of Colorado, Kansas, Arkansas, and Louisiana. He also served as a member of the Board of Engineers for Rivers and Harbors, Washington, D. C.

Brother Prentiss was appointed assistant chief of engineers, Washington, D. C. in 1952, and in 1953-1954 he served as engineer commissioner for the District of Columbia. Highway planning, construction, and maintenance were under his jurisdiction. He was transferred to command the Engineer Center at Fort Belvoir, Virginia from 1954 to 1956.

Brother Prentiss retired from the Army in 1956 and became executive vice president of the American Road Builders' Association. The ARBA works to promote the highway program for the social and economic progress of the United States.

He is a director of the Acacia Life Insurance Company, the Potomac Electric Power

Company, the Board of Trade, the Hot Shoppes Inc., the Bank of Commerce, Pepsi Cola Bottling Company, and the Metropolitan Food Corporation, all of Washington, D. C. He is vice president of the Federal City Council.

Brother Prentiss is a member of Tau Beta Pi, Sigma Alpha Epsilon, the ASCE, and the SAME, as well as a number of other social and civic organizations. His family includes his wife, a married daughter, and a son.

## Frontier Refining Has "Bud" Robineau as President

M. H. (BUD) ROBINEAU, *Colorado Mines '23*, president of Frontier Refining Company, Denver, Colorado, has announced the organization of Unidyne Industries, Inc. The new firm will manufacture and market a variety of fuel and petroleum products.

Brother Robineau attended Cornell University and Syracuse University before obtaining his degree at Colorado School of Mines. He entered the oil business as a geologist with the Texas Company, and became the first zone salesman in Western Nebraska.

In 1925 he organized the Western Nebraska Oil Company and served as its president and general manager until 1934, when he became president and general manager of Bay Petroleum Company in Denver. Five years later he severed his Bay connection and until 1940 was vice president of Kline, Robineau & Parker. In 1940 the Frontier Refining Company was formed with Brother Robineau as president and general manager.

Brother Robineau is president of Wyoming Nebraska Pipeline Company, chairman of the board of Fuels Research Service Company, director and chairman of the board of TerBorg Leasing Company, general partner of J. L. TerBorg & Company, and director and chairman of the board of Western States Leasing Company.

During World War I he served in the Syracuse University Hospital Unit in France, and after the Armistice was transferred to the entertainment service where he played banjo with the Original AEF Jazz Band. His banjo later paid his way through college.



Sports are a major interest of this Theta Tau. He is a former semi-pro and college baseball player, and his present hobbies are horse racing and tennis. He is a championship tennis player.

Brother Robineau is a member of the National Petroleum Council, a member of the board of directors of the American Petroleum Institute, and president of the Independent Refiners Association of America. Other memberships include Delta Upsilon, Masons, and numerous clubs.

Brother Robineau is married and has three children and six grandchildren.



## Aeroglide Corporation Has Kelly in Pilot's Seat

JAMES F. KELLY, *North Carolina State '43*, is president of Aeroglide Corporation of Raleigh, North Carolina. The company's products include grain driers, grain handling machinery, fruit and vegetable packing house equipment, charcoal briquet machinery, and contract manufacturing work. Its business is both national and international. Brother Kelly has been president of the company for 10 years.

His memberships include the Young Presidents' Organization, the NSPE, the North Carolina Society of Professional Engineers, the North Carolina Engineers Club, the American Society of Agricultural Engineers, the Advisory Council of North Carolina State School of Engineering, and the Army Supervisory Committee of the Third U.S. Army. He is an honorary member of Phi Kappa Phi.

Brother Kelly is also a member of Pi Kappa Alpha Fraternity, the Raleigh Lions Club, Masons, and other religious and civic organizations. He has served as vice president of the North Carolina State Alumni



Association. His family includes his wife and three sons.

## Dr. Van de Graaff is Awarded Another Degree

DR. ROBERT J. VAN DE GRAAFF, *Alabama '22*, has been awarded the honorary degree of doctor of science by Florida State University. He is the developer of the particle accelerator which is an essential part of nuclear research laboratories throughout the world.

Brother Van de Graaff, a charter member of Mu Chapter, received both his B.S. and M.S. degrees at Alabama. He then went to Paris to study at the Sorbonne, where he attended lectures on radiation by Madame Curie. In 1925 he went to Oxford University as a Rhodes scholar, receiving his Ph.D. there in 1928.

In 1929 he went to Princeton; there he worked out the principles of the Van de

Graaff generator. In 1931 he went to MIT, where he built the prototype of his famous machine. In 1946 he and others formed a company which, as the High Voltage Engineering Corporation of Burlington, Massachusetts, continues to manufacture and install the machines.

Brother Van de Graaff was awarded an honorary D.Sc. degree by the University of Alabama in 1940. Other honors include the Elliott Cresson Medal of the Franklin Institute in 1937, the Naval Ordnance Development Award in 1946, the Duddell Medal of the Physical Society of Great Britain in 1947, and the Charles B. Dudley Medal of the American Society for Testing Materials in 1948.

# In Memoriam

NELSON D. ABBEY, Sr., *Coe '15*, chairman of the board of the Abbey Etna Machine Company of Perryburg, Ohio, died May 28, 1965. He is survived by his wife, two daughters, and two sons.

BOBBY C. ADAMS, *Houston '62*, a charter member of Eta Beta Chapter, died in December 1964.

ROBERT F. X. ANTON, *North Carolina State '38*, died November 19, 1964. He was mill engineer of Champion Papers, Inc., Canton, North Carolina.

REGINALD M. BANKS, *Columbia '15*, died recently. He was also a member of Delta Phi.

EDWIN L. BERNISWILL, *Ohio State '27*, died in 1964. He is survived by his wife.

HAROLD L. BICKNELL, *Colorado Mines '16*, died February 27, 1965 in Winter Park, Florida. After his graduation from Mines, Brother Bicknell was employed by Anaconda Copper Company at Butte, Montana. During World War I he was a sergeant in the 27th Engineers and participated in the Meuse-Argonne battles. After his discharge in 1919 he was employed as a sales engineer for Ingersoll-Rand. Since 1934 Brother Bicknell had lived in Winter Park and Douglas, Michigan. He was also a member of Sigma Nu. Survivors include a niece and two nephews. (*Mines Magazine*)

THOMAS W. CALLAHAN, *Colorado Mines '14*, died January 24, 1965 in San Antonio, Texas. He graduated from Notre Dame University in 1909, and took post graduate courses from Columbia University. He was a member of Beta Theta Pi, Beta Tau, the American Society of Petroleum Engineers, and the Colorado School of Mines Alumni Association. Brother Callahan is survived by three sisters. (*Mines Magazine*)

WILLIAM C. CAMPBELL, *South Dakota Mines '30*, died March 7, 1965 in Moab, Utah. He was manager of the Homestake Division of a uranium mine; he had been employed by Homestake since college days. Before going to Moab, Brother Campbell was mine superintendent at Lead. He is survived by his wife, two daughters, and a son. (*The Hard-rock*)

ARTHUR E. CARLSON, *Michigan Tech '15*, died June 3, 1965 in Hollywood, Illinois.

WALTER S. CARTER, *Virginia '36*, died April 15, 1965 in an automobile accident in Charlottesville, Virginia. He was a building contractor.

ROBERT W. COUCH, *Missouri at Rolla '29*, died February 13, 1965 in Jefferson City, Missouri. He was a senior engineer with the Missouri State Highway Department and was engaged in research and analyses of highway materials. He was also a member of Tau Beta Pi. Brother Couch is survived by his wife, two sons, and two daughters. (*MSM Alumni*)

GEORGE A. CRACRAFT, *Louisville '52*, died August 25, 1965 as a result of a series of explosions at the du Pont plant in Louisville, Kentucky. He was a chemical engineer.

WILLIAM L. DE CARBONEL, *California (Berkeley) '29*, died May 12, 1965 in Las Vegas, Nevada. He was a geologist and mining engineer in the Philippines, U.S., and Central and South America. Brother de Carbonel is survived by his wife, two sons, and a brother.

ROBERT W. DETHLEFS, *Iowa '21*, died August 23, 1965 in Anniston, Alabama. He was a partner in the Dethlefs and Hannon Construction Company in Anniston and was past president of the Alabama Branch of the Associated General Contractors of America. Brother Dethlefs was one of the organizers of the group at the University of Iowa which became Omicron Chapter. Prior to moving to Alabama, he was a partner in a contracting firm in Cedar Rapids, Iowa. Brother Dethlefs is survived by a brother.

WALTER E. DEWALD, *Michigan Tech '27*, died January 26, 1965 in Stambaugh, Michigan.

ROY B. EARLING, *Michigan Tech '08*, died December 14, 1964 in Port Blakely, Washington. He was an early editor of *THE GEAR OF THETA TAU*. Following his graduation from Michigan Tech, Brother Earling worked for various copper companies in Arizona. During World War I he served in the Field Artillery of the U.S. Army. He then worked for the U.S. Smelting Refining & Mining Company in Boston, Massachusetts, Nome, Alaska, and Fairbanks, Alaska, finally serving as vice president and general manager. From 1952 to 1959 Brother Earling was a mining consultant in Seattle, Washington, and in 1959 he retired in Port Blakely. He was a member of the American Mining Congress and the American Institute of Mining Engineers, and of Masonic orders and various clubs. He was an honorary member of the Pioneers of Alaska in Fairbanks. Brother Earling is survived by his wife, two daughters, nine grandchildren, and a brother.

JOHN CHRISTIAN ERIKSSON, *Arizona '66*, died April 1, 1965. He was an undergraduate in the Civil Engineering College, and was initiated into Theta Tau on December 8, 1963. Brother Erikson is survived by his parents. Chi Chapter made a donation to the New Mexico Military Institute's Chapel Fund in Brother Erikson's name.

JOHN B. FEIDLER, *Missouri at Rolla '21*, died October 9, 1964.

W. ROYDEN FRANKE, *Virginia '37*, died April 12, 1965. He was on the faculty of Virginia's Engineering School. Brother Franke founded the University of Virginia Airport and was its operator for a number of years.

DANIEL C. FROBER, *Colorado Mines '24*, died

MARCH 28, 1965 at his home in Salt Lake City, Utah. He was owner and manager of the Daniel C. Frobes Co., manufacturers' agent for mining machinery and equipment, from 1938 until 1952. Brother Frobes studied at the University of Colorado and Colorado School of Mines, and earned a master's degree in ore dressing at the University of Utah in 1933. After his graduation from Colorado Mines he was employed by the St. Joseph Lead Company and the American Zinc Company. He was assistant city engineer for Orlando, Florida, resident engineer for Jackson, Mississippi, and an assistant engineer for the Arkansas Highway Department. Before founding his own company, Brother Frobes was a sales engineer for Gardner-Denver Company, and was vice president and sales manager of Hersey & Company in Salt Lake City. He is survived by his wife, two daughters, a sister, and two brothers (one is C. DAVID FROBES, *Colorado Mines '24*). (*Mines Magazine*)

HIAL B. GERNERT, *Colorado Mines '30*, died May 5, 1965 in Casper, Wyoming. He was a prominent figure in the oil industry in Wyoming. After graduation he was employed by the Texas Oil Company until 1948, when he came to Casper as general manager of the Trigood Oil Company. He retired several years ago. Brother Gernert was a member of the Independent Petroleum Association of America, was a past president of the Rocky Mountain Oil and Gas Association, and had been named "Wyoming Oil Man of the Year." He also was active in Republican party affairs. He was a member of Sigma Nu fraternity. Brother Gernert is survived by his wife, a daughter, two sons, and two grandchildren. (*Mines Magazine*)

WOODMAN L. GIBSON, *Kennecott '18*, died May 26, 1965 in Lakeland, Florida. He is survived by his wife.

RALPH L. GOETZENBERGER, *Minnesota '14*, died May 20, 1965 at his home in Chevy Chase, Maryland. He had retired in 1957 as chief of Minneapolis-Honeywell's government projects office. During World War I Brother Goetzenberger served as an Army ordnance major and received the French Legion of Honor. Before joining Minneapolis-Honeywell in 1928, he worked for the Leeds and Northrup Company in Philadelphia. He organized Honeywell's first industrial division, and during World War II the firm sent him to Washington to serve as chairman of Army Ordnance's Fire Control Engineering Advisory Committee. Brother Goetzenberger was a past president of the Washington Society of Engineers, and a fellow of the AIEE and of the ASME. He was a member of the American Ordnance Association, the Society of American Military Engineers, Psi Upsilon, and other societies. He is survived by his wife, two sons, a daughter, and eight grandchildren. (*Washington Star*)

HERMAN G. HAAS, *South Dakota Mines '31*, died April 22, 1965 in Duluth. He is survived by his wife, two sons, and a daughter.

PAUL C. HATMAKER, *Missouri at Rolla '23*, died in 1964.

CHARLES M. HERON, *California (Berkeley) '11*, died January 30, 1964 in Los Angeles. He was a charter member of Epsilon Chapter. His career was in mining as an operator and later as a consultant. After graduation Brother Heron began work with the Lucky Tiger Gold Mining Company in Sonora, Mexico. By 1915 he was assistant superintendent, and had many exciting experiences during the Madero Revolution. From 1915 until 1940, Brother Heron was engaged in exploration and examinations in Canada, the western United States, and Mexico. During World War II he served on the War Production Board in charge of tungsten. After his return to California he engaged in consulting work. Brother Heron was a member of Phi Kappa Sigma and was listed in *Who's Who in the West*. He is survived by his wife, a son, and a daughter. (*Mining Engineering*)

LINDLEY P. HUSSEY, *Arizona '32*, died October 1, 1964. At the time of his death he had been research and development engineer on solid fuel rockets with Aerojet-General Corporation in Sacramento, California. Brother Hussey is survived by his wife.

DR. ZAY JEFFRIES, *Case Hon. '10*, died May 21, 1965 in Pittsfield, Massachusetts. He was one of the nation's most distinguished metallurgists. From 1911 to 1918 he was a member of the Case faculty. In 1918 he became consulting metallurgical engineer to the Aluminum Company of America. Two years later he also became consultant to General Electric's Lamp Department. Brother Jeffries held offices in many industries, had been awarded numerous medals, and was honored by many international societies. (*Case Alumni*)

GEORGE F. JENKINS, *Columbia '33*, died April 6, 1965 in New York City. He retired last year as assistant to the vice president of Union Carbide International Company, a division of the Union Carbide Corporation. He was vice chairman of the Executive Board of the Columbia Engineering Fund. Brother Jenkins is survived by his wife.

ROY E. LUNDQUIST, *Utah '29*, died September 27, 1965 in Cincinnati, Ohio. Since 1946 he had been chief hydrologist for the U.S. Weather Bureau in Cincinnati. He was an expert in river forecasting. Brother Lundquist was a member of Phi Beta Kappa, and he was an active member of the Latter Day Saints Church, serving as patriarch of the Cincinnati Stake. He is survived by his wife, two sons, a daughter, seven grandchildren, and brothers and sisters.

ELLIOTT D. LYNDE, *Syracuse '28*, died February 5, 1964. He was a member of Pi Mu Epsilon, Tau Beta Pi, Phi Kappa Phi, and Acacia.

ROBERT C. MAYER, *Utah '48*, died October 17, 1965 in Mount Lebanon, Pennsylvania. He was senior design coordination engineer for United States Steel Corporation. Brother Mayer served with the U.S. Army during World War II, then received his degree in 1948 and began work with U.S. Steel the same year. He moved from Provo, Utah to Mount Lebanon in 1964. Brother Mayer

## THE GEAR OF THETA TAU

was former secretary of the Utah Republican State Central Committee and was active in the Boy Scouts. He was a member of the American Institute of Steel Engineers, AIME, and Phi Delta Theta. He was Regent of Lambda Chapter of Theta Tau. Brother Mayer is survived by his wife, three sons, a daughter, his mother, a brother, and three sisters.

**THOMAS E. MCINTOSH**, *George Washington '64*, died June 6, 1965. At the university he was vice president of Sigma Tau, chairman of Engineers Week, a member of Tau Beta Pi, and a member of Sigma Pi Sigma. In 1964 he received the Deacon Ames Award, which is given to the most outstanding senior in the School of Engineering.

**CEBRUC E. MCWHORTER**, *Colorado Mines '24*, died March 7, 1965 in Naples, Florida. He was a retired mining engineer and product development manager for Goodman Manufacturing Company. He joined Goodman after graduation and served in Chicago and Denver. For 20 years he was the Western District sales manager in Denver. Brother McWhorter was considered one of the country's leading authorities in coal mining. He was a member of the Rocky Mountain Coal Mining Institute, the AIME, and Sigma Nu fraternity. Survivors include his wife, a son, a daughter, a brother, a sister, and three grandchildren. (*Mines Magazine*)

**CHARLES E. MORRISON**, *Arizona '36*, died October 15, 1963 in Patagonia, Arizona. He was a civil engineer with Tucson's City Engineering Department. Brother Morrison is survived by his wife and two children.

**GERALD A. MUNSON**, *South Dakota Mines '33*, died April 4, 1965 in Kings Mountain, North Carolina. He was director of technical services for Lithium Corporation of America. He had previously served the corporation at Keystone, Hill City, and Hopkins, Minnesota. Brother Munson was a member of Sigma Tau, AIME, the Masonic Lodge, and Rotary. He is survived by his wife and two sons; one is **GERALD MUNSON**, *South Dakota Mines '57*. A memorial has been established in his name at the Museum of Geology, with **HAROLD MARTIN**, *South Dakota Mines '31*, associate director of the museum, in charge. (*The Hardrock*)

**HOMER W. NORTHRUP**, *South Dakota Mines '33*, died January 9, 1965 in Downers Grove, Illinois. For the last 19 years he worked as a metallurgical engineer for International Nickel Company. Brother Northrup is survived by his wife, two sons, four daughters, seven grandchildren, his mother, three sisters, and his brother. (*The Hardrock*)

**IAN LINDRAY REID**, *Michigan Tech '36*, died May 27, 1965 in Eveleth, Minnesota.

**ROBERT G. RIEGEL**, *Colorado Mines '34*, died June 30, 1965 at his home in South Gate, California. Most of his career had been spent in the steel industry. Soon after his graduation from Colorado Mines he was employed as general foreman in the Electric Weld Tube Division of Republic Steel Corporation, Youngstown, Ohio. Several years later

he became superintendent of Kaiser Steel Corporation's electric weld pipe mill at Fontana, California. Later he was superintendent at Jones & Laughlin's steel mill in Aliquippa, Pennsylvania. For the past two years he had been with the General Services Administration. Brother Riegel is survived by his wife and a brother. (*Mines Magazine*)

**CLARENCE O. SLOAN**, *Iowa '24*, died September 9, 1965 in Chicago, Illinois. He was a charter member of Omicron Chapter. Brother Sloan is survived by his wife and three sons.

**GEORGE SMOE**, *Kansas '17*, died in April 1965. He was president of his class and captain of the football team at the university. For 30 years he was an engineer with Continental Oil Company, and for the last seven years he was a Denver, Colorado city engineer. Brother Smoe is survived by two sisters.

**COL. NORMAN E. SPROWL**, *Case '17*, died May 1, 1965 at his home in Minneapolis, Minnesota. After his graduation from Case, Brother Sprowl served in France with the Army Engineers during World War I. He became interested in motion pictures as a technical adviser for film processing laboratories in New Jersey, and went to Hollywood as business manager for Universal Pictures, then in the heyday of silent movies. He saw the motion picture business progress to "talkies" and color. During World War II Brother Sprowl served with the Armored School at Fort Knox, Kentucky. He later spent six years as operations chief for the Army Public Information Division at U.S. Forces Headquarters in Europe. He handled information aspects of such incidents as the Nurnberg trials and the Berlin Airlift. When he retired from the Army as public information officer for the Military District of Washington, D. C., he resumed management of motion picture theatres in Utah and Kansas City, Missouri. For the past six years he was associated with Cinerama, serving in Minneapolis as publicity, advertising, and group sales director. Brother Sprowl is survived by his wife, two sons, five grandchildren, and a sister.

**WILLIAM A. STEENBERGEN**, *Arizona '29*, died February 28, 1965 in Prescott, Arizona. He was retired as Bureau of Reclamation projects manager at Yuma. Brother Steenberg was an instructor at the University of Arizona and received a professional degree in civil engineering in 1939. He worked at various engineering and land planning jobs in Tucson until World War II, when he served in the Air Force and attained the rank of colonel. After the war he went to Yuma for the Bureau of Reclamation. Brother Steenberg was a member of the Society of American Military Engineers, the ASCE, the Yuma County Planning and Zoning Commission, the Yuma City-County Joint Planning Council, and Kiwanis. In 1960 he was awarded a superior accomplishment award by the Bureau of Reclamation, and in 1963 he received a special services award. Brother Steenberg is survived by his wife, a son, and a daughter.

**REAR ADM. WILLIAM WALTON STUDDERT**, *North*

Carolina State '27, died November 15, 1964 at Washington, North Carolina.

**RICHARD L. TEMPLIN**, Kansas '15, died April 7, 1965 in New Kensington, Pennsylvania. He was a scientist, inventor, and internationally recognized authority on physical testing standards for light metals. He had retired in 1958 as an assistant director of research and chief engineer of tests for the Aluminum Company of America. During World War I he served as a mechanical testing expert for the National Bureau of Standards, and in 1919 he joined Alcoa. Brother Templin held 20 patents and was the author of more than 90 treatises. He was a past president of the American Society for Testing Materials, and received the society's highest award, honorary membership, in 1955. He was also a member of Tau Beta Pi, Sigma Xi, the AIMME, ASCE, Society for Experimental Stress Analysis, American Society for Metals, and the Masons. He received the ASTM's Charles B. Dudley Medal, the ASCE's Thomas Fitch Rowland Prize, the Franklin Institute of Pennsylvania's Edward Longstreth Medal. In 1954 he presented the Gillette Memorial Lecture sponsored jointly by the ASTM and Battelle Memorial Institute. Brother Templin is survived by his wife, two sons, and two brothers.

**WILLIAM D. TOMPERLEY**, Minnesota '10, died November 26, 1964. He is survived by his wife.

**LOUIS A. TURNBULL**, Missouri at Rolla '16, died

April 25, 1965. He was retired as chief of the Division of International Activities in the Bureau of Mines in Washington, D. C. The Department of Interior had presented him its highest award, the Distinguished Service Award. Brother Turnbull is survived by his wife.

**CARROLL M. WAGNER**, California (Berkeley) '16, died April 23, 1965 in Los Angeles. He was a retired vice president of Mobil Oil Company. He received his B.S. degree from the University of Oregon, where he was a charter member of the Phi Delta Theta chapter. He received his M.A. degree at the University of California at Berkeley in 1918, and was elected to Sigma Xi as well as Theta Tau. Brother Wagner was a petroleum geologist for 40 years with Socony Mobil Oil Company. His work was mostly on the Pacific Coast and in the Rocky Mountains, but also included assignments in Alaska, Canada, Mexico, and South America. At the time of his retirement he was vice president and director of exploration for Mobil. Brother Wagner is survived by his wife, two daughters, and eight grandchildren.

**ROBERT L. WICKER**, North Carolina State '40, died November 8, 1964. He was an engineer with the North Carolina Highway Commission.

**JOSEPH B. WILKINSON**, Michigan Tech '14, died July 14, 1965 in St. Joseph, Michigan. He was also a member of Tau Beta Pi.

## Alumni Notes

### MINNESOTA

**WALTER HALL WHEELER**, '06, has a private practice in civil and structural engineering in Minneapolis.

**GEORGE W. JEVNE**, '10, is retired and living in Escondido, California. He was formerly chief of design and construction for GSA in Los Angeles.

**GEORGE A. DU TOIT, JR.**, '10, is retired and living in Minneapolis.

**T. H. GRANFIELD**, '14, is retired. He was assistant vice president in charge of engineering for Northwestern Bell Telephone Company. He lives in Omaha, Nebraska. Brother Granfield is a life member and Fellow of AIEE.

**H. S. LOEFFLER**, '15, is self employed as a bridge and structural engineer in St. Paul.

**EDWARD I. ANDERSON**, '17, retired in 1958 after 40 years with Westinghouse Electric Corporation, Attica Works. He lives in Attica, New York.

**LYNDON L. FOLEY**, '18, is a consulting petroleum engineer in Tulsa, Oklahoma.

**DONALD C. SMITH**, '18, is retired and living in Caldwell, New Jersey.

**WILLIAM M. WINTER**, '23, is retired. He lives in Oliva, Minnesota.

**DONALD G. BRUNNER**, '24, is a partner in Truax & Brunner in Minot, North Dakota.

**R. H. KRANZFELDER**, '26, is manager of plant accounting for Northern States Power Company in Eau Claire, Wisconsin.

**DR. L. V. BERKNER**, '27, is chairman of the Executive Committee, Graduate Research Center, and director of the Southwest Center for Advanced Studies at the Graduate Research Center of the Southwest in Dallas.

**RUSSELL S. POOL**, '27, is vice president and treasurer of Hesse & Associates, Inc. in Minneapolis. They are manufacturers' representatives for electronic components, associated hardware, and packaging. Brother Pool is treasurer of the Paul Bunyan Chapter, Electronic Representatives Association.

**RUSSELL L. SORENSEN**, '27, owns the Sorenson Construction Company in Albert Lea, Minnesota.

**ROY L. GROVER**, '31, is owner of the Grover Sales Company in Minneapolis. He is a manufacturers' representative for three companies.

## THE GEAR OF THETA TAU

CLIFFORD O. ANDERSON, '32, is professor of mechanical engineering at North Dakota State University in Fargo. He has been there since 1948.

GEORGE B. BRISTALL, '33, is an engineer for the Boeing Company. He lives in Bellevue, Washington.

MARTIN G. SEDAM, '33, is president of the Alloy Rods Company division of Chemetron Corporation in York, Pennsylvania.

ROLF G. SWANSON, '35, is chief development engineer for the Torit Corporation in St. Paul. He lives in Minneapolis.

BURTON W. THOMPSON, '35, is vice president, treasurer, and chief engineer for Pfeiffer and Shultz, Inc. in Minneapolis.

DR. NORBERT F. RUTZ, Hon. '38, is a designer for the Boeing Company, Seattle, Washington.

HARRY A. LARSON, '39, is assistant chief engineer for the Hanna Mining Company in Nashua, Minnesota.

RALPH E. McMILLEN, '39, is a consultant in geological and geophysical exploration for oil. He is located in Tulsa, Oklahoma.

FRANK E. BUNCE, '41, is structures section group leader for Grumman Aircraft in Bethpage, New York. He lives in Huntington.

JAMES E. ROBERTS, '44, is district sales manager for Harnischfeger Corporation in Milwaukee. He lives in Wauwatosa, Wisconsin.

HARLAN W. JOHNSON, '47, is superintendent of the Elk River Concrete Products Company in Bloomington, Minnesota. His home is in Robbinsdale.

ROBERT C. REISS, '49, has been promoted by the Electric Machinery Manufacturing Company to be Minneapolis District manager. He was formerly a sales engineer in Milwaukee.

GLENN W. SCHWARTZ, '49, is director of quality control and reliability for Univac's Data Processing Division in St. Paul. He lives in Minneapolis.

DR. HOTTEN A. ELLERY, '50, is now assistant professor of civil engineering at Iowa State University. He received his Ph.D. in 1964.

CAPT. GLEN M. PERSONIUS, '57, is attending the USAF Aerospace Research Pilot School at Edwards AFB. He will graduate about the first of May, 1966. From 1960 to 1965 Brother Personius was a B-52 pilot in SAC, stationed at Loring AFB, Maine.

DONALD F. WRIGHT, '57, is assistant production director for the Minneapolis Star and Tribune Company. His home is in Mahomet, Minnesota.

LT. GERALD J. DITTMER, '64, has been attending Texas A&M University for the U.S. Air Force.

He will be assigned as weather officer to the weather computer center at SAC headquarters, Offutt AFB, Omaha, Nebraska.

RICHARD R. HARDING, '65, is a distribution engineer for Superior Water, Light & Power Company, Superior, Wisconsin.

## MICHIGAN TECH

JAMES M. CRABR, '09, is retired and living in Birmingham, Michigan.

RAYMOND A. CASE, '12, is retired and living in Portland, Oregon.

ARTHUR E. CARLSON, '15, retired in 1955 as superintendent of the Electromotive Division of General Motors in La Grange, Illinois.

COL. IVAN A. CHERRO, '15, is now living in Vero Beach, Florida. Following his retirement from active duty with the Army, he was construction superintendent for the Portland Cement Association in Atlanta, Georgia. During World War II he was commanding officer of the 1059 Engineer Port Construction Group in the Southwest Pacific Theater.

FRANK V. HICKS, '15, is living in LaJolla, California. At the time of his retirement in 1954, he had charge of all Columbia-Geneva mining operations in the West. His entire career was spent in mining.

CARL E. MILLS, '15, retired in 1958 as manager of the Cooper Queen Branch and Douglas Reduction Works for Phelps Dodge Corporation. He now lives in Carmel, California.

RALPH M. MOON, '15, is retired and living in Kansas City, Missouri.

ROWLAND KING, '16, is retired; he lives in Victoria, British Columbia.

S. H. LORAIN, '17, is retired and living in Lund, British Columbia.

N. F. KOEPEL, '18, is vice president of the Chile Exploration Company. He lives in New York City.

LOUIS J. HAGA, '25, was awarded an honorary doctor of engineering degree at Michigan Tech's June Commencement. He is president of State Heat Treat, Inc. and Thermal Processing, Inc. in Grand Rapids. Brother Haga is a past president of the Alumni Association and a trustee of the Michigan Tech Foundation.

DR. ROY W. DRIER, '26, is reprinting some of the literature of the Upper Peninsula, with the proceeds from sales going to various crippled children's charities.

HARRY W. THOMAS, '31, is self-employed as a sales engineer for Power Equipment Company, Oak Harbor, Ohio.

FREDERICK M. FOSTER, '32, is a plant engineer for

## FALL 1965

Scott Paper Company in Detroit. He lives in Dearborn, Michigan.

CLYDE S. WILLIAMS, '33, is operations research analyst for Consumers Power Company, Jackson, Michigan.

BRIG. GEN. ORAN O. PRICE, '35, is the civil engineer for the Air Force Logistics Command at Wright-Patterson AFB, Ohio.

JAMES L. WILSON, '35, is group leader of the Design Section, Engineering Department, for Dow Chemical Company in Midland, Michigan.

NOHMAN R. SIEMERT, '36, is president of the Siwert Equipment Company, Inc. and of the Kinsflow Corporation, both of Rochester, New York.

GEORGE L. TURNER, '38, is vice president for sales engineering of H. B. Sherman Manufacturing Company, Battle Creek, Michigan.

ALBERT RAITZER, '40, is chief metallurgist for the Trade Company in LaCrosse, Wisconsin. His home is in Coon Valley.

ROBERT W. VAN EVERA, '40, is editor of the *Mining Congress Journal* of the American Mining Congress, Washington, D. C. He lives in Arlington, Virginia.

ERNEST KLEPETKO, '41, is production manager of Coastal Farms, Inc. in Estill, South Carolina. He is a member of the National Society of Professional Engineers and the Society of American Military Engineers.

BILLY JAY ELLERTHORPE, '45, is planning engineer for the U.S. Atomic Energy Commission—Richland Operations. His family includes his wife and a 17-year-old daughter.

RICHARD VAN DE WEGHE, '46, is owner and president of Allied Fireplaces, Inc. in Appleton, Wisconsin.

WILLIAM C. BREMEISTER, '47, is a consulting engineer in Santa Barbara, California.

WILLIAM H. EDWARDS, III, '48, is general superintendent for Leif-Siegler, Inc., Power Equipment Division, in Cleveland. He lives in Solon, Ohio.

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

K. A. SPOONER, '50, is self employed as a structural engineer in Benton Harbor, Michigan.

JOHN W. BURLINGAME, '54, is a metallurgist at the Frankford Arsenal in Philadelphia.

CAPT. WILLIAM J. WALIN, '54, is stationed at James Connally AFB, Texas. His home is in Waco.

PETER J. JOHNSON, '58, is chief engineer and general superintendent for Hoover Construction Company, Virginia, Minnesota. He lives in Britt.

WILLIAM E. MICHA, '58, is a group leader for the Dow Chemical Company in Midland, Michigan.

MARVIN B. SORENSON, '60, is a practice engineer in the Blast Furnace Division of Wheeling Steel Corporation, Steubenville, Ohio. He is the father of a daughter, Kimberly Kay, born November 9, 1964.

PAUL BRECHTELBAUER, '61, is a chemical engineer for du Pont in Waynesboro, Virginia.

THOMAS R. IRWIN, '61, is a junior engineer for the East Ohio Gas Company in Cleveland. His home is in Patina Heights, Ohio.

NELSON H. BAKER, JR., '62, is a communications equipment repairman for the Air Force Communications Service. He has been assigned to Clark AFB, Philippines.

GARTH G. WESTBROOK, '63, is a student-in-accounts for Peat, Marwick, Mitchell & Company in Toronto. He lives in Scarborough, Ontario with his wife and daughter.

LT. DENNIS L. MEYER, '64, was a plant layout engineer for the Ford Motor Company, Automotive Assembly Division, Dearborn, Michigan, until June 1965, when he reported for duty in the U.S. Army Ordnance Corps.

DENNIS P. HILL, '65, is a mechanical engineer, Pitt Shop Section, for the Cleveland-Cliffs Iron Company in Ishpeming, Michigan.

## COLORADO MINES

ALAN KINLOCK, '12, is a consulting engineer in New York City.

RUFERT B. LOWE, '22, lives in Locust, New Jersey. He is retired from Union Carbide Corporation.

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

ARNOLD S. BUNTE, '26, is a semi-retired geological engineer in Roswell, New Mexico.

BEN F. ZWICK, '29, is a petroleum consultant. He lives in Scarsdale, New York.

JOHN G. MARSHALL, '31, is vice president of the Fluor Corporation in Los Angeles. His home is in Whittier, California.

NEIL O. JOHNSON, '33, is manager of mineral operations for Foote Mineral Company, with offices at Kings Mountain, North Carolina. He will have overall responsibility for production facilities at the Kings Mountain lithium mine and plant; the Sunbright, Virginia lithium refinery; and the two line producing operations at Asbury, Tennessee and Kimballton, Virginia.

L. W. LeROY, '33, teaches undergraduate and graduate courses in engineering geology at Colo-

## THE GEAR OF THETA TAU

rado Mines. He does consulting work in the field also.

EARL VOLIN, '33, director of the Mineral Research Institute at Michigan Tech, has been granted a year's leave of absence to accept a Fulbright grant for work in New Zealand.

CHARLES N. BELLM, '34, is vice president of Consolidated Electronics Industry Corporation in New York City.

CHARLES C. TOWLE, '34, is chief geologist for the Goldfield Corporation, Reno, Nevada.

JOSEPH B. KENNEDY, '35, has been named executive vice president, exploration and production, of the Sinclair Oil Corporation in New York City. He was formerly president of a subsidiary, Sinclair Oil & Gas Company in Tulsa, Oklahoma.

T. P. TUCHMAN, '35, is general manager of the Organic Chemicals Division of the American Cyanamid Company. His home is in Garden City, New York.

MARK T. GILKISON, '36, vice president of Gates Rubber Company, was elected secretary of the American Supply & Machinery Manufacturers' Association. The association is composed of 425 manufacturing firms.

GEORGE A. KIERSCH, '42, chairman and professor of geological sciences at Cornell University, has received an award for the best single article in a professional magazine. The article, "Valent Reservoir Disaster," was published in the March 1965 issue of *Civil Engineering Magazine*. It was based on his research in Europe last year. Brother Kiersch also does consulting in engineering geology for industries and government agencies.

COL. LOUIS DEGOES, '41, is chief, Propulsion Directorate, Foreign Technology Division, for the AF Systems Command at Wright-Patterson AFB, Ohio. He lives in Xenia, Ohio.

RALPH L. HENNERICH, '41, was awarded the Distinguished Achievement Medal of the Colorado School of Mines at the June Commencement. His entire career has been with the American Smelting & Refining Company. He has been treasurer of the Metallurgical Society of the AIME since 1962 and has served as a member of the national panel of the American Arbitration Association.

BEN H. KING, '47, is a chemical engineer for Texaco Inc. in Amarillo, Texas.

J. H. McKEEVER, '47, is senior geologist for Pan American Petroleum Corporation in Denver. His home is in Littleton.

EUGENE V. SIMONS, '47, is self employed in the field of petroleum and minerals. He is located in Casper, Wyoming.

J. W. JACKSON, '49, is exploration manager for Sinclair Oil & Gas Company in Houston, Texas.

STEWART CHURCH, '52, is a consulting geologist in Midland, Texas.

WILLIAM P. BURDEAU, JR., '53, is a seismograph party chief for the Superior Oil Company. He is now in Opelousas, Louisiana.

LARRY A. DENTON, '56, is a senior engineer for Mobil Oil Company in Victoria, Texas.

JERRY R. McLEOD, '57, received an M.B.A. from Harvard University in June. He returned to employment with Cities Service Oil Company in Tulsa, Oklahoma, where he works for the administrative assistant to the president. He is involved in staff studies in marketing, refining, and gas processing operations.

CAPT. EDWARD G. RAFF, '60, is a civil engineer for the U.S. Army at Colorado Springs, Colorado.

LAWRENCE E. CLAY, '62, is a quality engineer for the Martin-Marietta Corporation in Denver, Colorado. His home is in Lakewood.

LT. STEVEN L. HARVEY, '63, is serving in the Army Corps of Engineers at Fort Hays, Columbus, Ohio. After May 1966 he will return to work with the Aluminum Company in Tennessee.

TERRANCE S. BOUSE, '64, is a geophysicist with the Pan American Petroleum Corporation, Midland, Texas.

## CASE

CARL H. GANZENMUELLER, '17, retired in May as secretary and treasurer of Arthur G. McKee and Company, Cleveland. He had been with the company 32 years. Brother Ganzenmuller is a member of the Controllers Institute of America, American Society of Corporate Secretaries, Cleveland Engineering Society, Cleveland Treasurer's Club, Tau Beta Pi, and Sigma Xi.

WALTER B. HOFFMAN, '18, is retired; he lives in Shaker Heights, Ohio.

GEORGE M. LIEBER, '19, is retired and living in Fremont, Ohio.

ELBERT C. GREEN, '20, is in the process of retiring. His home is in Chicago.

ROBERT A. McDOWELL, '21, is retired and living in Cincinnati, Ohio.

CEDRIC P. FAUREL, '22, of Lakewood, Ohio, is retired.

F. H. ALLISON, JR., '23, is vice president and research associate for Blaw-Knox Company in Pittsburgh, Pennsylvania.

NEFF T. DIETRICH, '23, is retired as a sales engineer for Midland-Ross Corporation of Cleveland. He lives in Detroit, Michigan.



## FALL 1965

H. G. VAUGHN, '23, is retired and is living in Warren, Ohio.

A. ALLAN BATES, '25, is serving as president of the American Concrete Institute. He is chief of the Building Research Division of the American Bureau of Standards.

A. C. THAILING, '28, is division head for plant engineering of Union Carbide Corporation's Olefins Division in South Charleston, West Virginia.

H. EDWARD GABLE, '29, is president of Weld Tooling Corporation of Pittsburgh, Pennsylvania.

WATSON E. SLABAUGH, '29, is manager of market development for Nutone, Inc. of Cincinnati, Ohio.

W. R. PERSONS, '31, chairman and chief executive officer of Emerson Electric Corporation, has been elected president of Civic Progress Inc. The organization works toward progress for the St. Louis area, and is composed of 29 educational and industrial leaders.

J. H. BAIRD, '32, is sales manager for special products for the Labetal Corporation. His home is in Shaker Heights, Ohio.

JOHN A. BARTH, '32, is president of the Barth Corporation, Cleveland. The corporation designs and builds dies, tools, and special machinery.

HAROLD J. KIRKSTADT, '32, is supervisor of employment for the Republic Steel Corporation, Cleveland.

JOHN R. DONNELLY, '34, is senior vice president, international, of the Marathon Oil Company, Findlay, Ohio. He has been with the company since 1936. Brother Donnelly is a trustee of the Findlay First Presbyterian Church, has been president of the Findlay Board of Education, and is a member of the Case Alumni Council.

WILLIAM G. HALL, '34, is insurance manager for Reliance Electric & Engineering Company, Cleveland. He lives in Cleveland Heights.

T. W. SAYLE, '34, is a sales engineer for Dunham-Bush Company, Cleveland. His home is in Chagrin Falls.

JOHN O. GEISSBUHLER, '35, is manager of product design engineering in the Photo Lamp Department of General Electric Company, Cleveland. Brother Geissbuhler lives in Lyndhurst.

C. RICHARD NEWPHER, '37, is chairman of the board of the Glastic Corporation, Cleveland. He lives in Shaker Heights, Ohio.

KENDALL E. THOMAS, '37, is a sales engineer for S & C Electric Company in Cleveland. His home is in Shaker Heights.

S. H. HANVILLE, JR., '38, is director of marketing for Lear Siegler, Inc., Power Equipment Division, in Cleveland.

FRANK P. CONVERSE, JR., '40, is president of the Great Lakes Construction Company, Cleveland. The firm is a major builder of Ohio roads. Brother Converse lives in Fairview Park.

JOHN A. WILSON, '40, is associate professor of physics at the Air Force Institute of Technology, Wright-Patterson AFB, Ohio. He lives in Dayton.

IVAN A. GREENWOOD, JR., '42, is manager of the Research Department of GPL Division, General Precision, Inc., Pleasantville, New York. He lives in Stamford, Connecticut.

CHARLES MLAKAR, '42, is president of Methods Machinery Company, Cleveland.

EDWARD G. RAFF, '42, is secretary of Energy Technology Incorporated, Cleveland. He lives in Lyndhurst.

DR. JOHN R. REITZ, '43, is head of the Physics and Electronics Department of the Ford Scientific Laboratory, Dearborn, Michigan. He was formerly a professor of physics at Case. The laboratory is considered one of the outstanding basic research laboratories of the country. Brother Reitz lives with his family in Ann Arbor.

JACK M. YOUNG, '43, is a patent attorney for the Hupp Corporation, Cleveland.

WILLIAM C. NUBBAUM, '44, has been named vice president of White-Rodgers Company, a subsidiary of Emerson Electric. He was formerly assistant to the president of Emerson Electric, and was vice president of the company's Day-Bright Lighting Division in St. Louis.

JOHN B. DEHAMEL, JR., '48, is chairman of the deHamel Construction Company, Cleveland. His home is in Chagrin Falls.

DONALD F. SOULA, '48, is traffic supervisor for Ohio Bell Telephone Company in Cleveland. He lives in Chagrin Falls.

WILLIAM L. GRIFFITH, '50, is president of H & R Manufacturing Company, Cleveland. His home is in Mentor, Ohio.

WALTER E. RAYNER, '50, is district manager for Conover-Mast Publications Inc., Pittsburgh, Pennsylvania.

MAJOR GERALD J. WINCHELL, '51, was graduated from the Air Force Air Command and Staff College at Maxwell AFB, Alabama in June. He was reassigned to Minot AFB, North Dakota.

DR. BERNARD J. STIEGELWALD, '53, was advanced to deputy chief of the Laboratory of Engineering and Physical Sciences, Division of Air Pollution, Public Health Service at the Robert A. Taft Sanitary Engineering Center, Cincinnati. He lives in Forestville, Ohio.

ROBERT A. SEEKELY, '56, is plant engineer for Lincoln Electric Company, Cleveland. He lives in Euclid.

## THE GEAR OF THETA TAU

PETER E. HARBATH, '61, is supervising foreman for Ohio Bell Telephone Company, Cleveland. His home is in Brecksville.

WILLIAM M. JOHNSON, '63, is staff engineer for the Instrumentation Labs, Massachusetts Institute of Technology. He lives in Arlington.

JAMES P. RYBAK, '63, is a staff member of the Sandia Corporation in Albuquerque, New Mexico.

JOHN W. SPRING, JR., '63, is an experimental engineer with Townmotor Corporation in East Cleveland.

DENNIS B. HEPPNER, '64, is a graduate assistant at Case. Brother Heppner, who lives in East Cleveland, was married on July 4, 1964.

DENNIS D. HUFFMAN, '64, is a metallurgist-technical services with Latrobe Steel Company in Latrobe, Pennsylvania.

ROBERT W. OLIPHANT, '64, is a graduate fellow at Case.

### CALIFORNIA (BERKELEY)

GLOYD M. WILES, '23, does consulting in mining engineering and operations in Port Washington, New York.

JAMES B. CHAMBERLAIN, '24, is retired and living in San Marino, California.

JOHN E. ALLEN, '33, is head of the Department of Earth Sciences at Portland State College, Portland, Oregon.

PHILIP ANDREWS, '33, is a consulting geologist in Boulder, Colorado.

JOHN DOMERCO, JR., '34, is a consultant in Houston, Texas.

DAVID R. NELSON, '35, is assistant comptroller of the Anaconda Company, New York City. He lives in Short Hills, New Jersey.

A. J. SOLARI, '35, is vice president of Chevron Standard Limited, Calgary, Alberta, Canada.

WILLIAM S. BADT, '36, is a sales engineer for American-Standard, Industrial Division. He lives in Whittier, California.

IAN M. AULD, '38, is deputy regional vice president of State Farm Insurance Company. His home is in Salem, Oregon.

JOHN H. DOUMA, '38, is production vice president of Sunray DX Oil Company, Tulsa, Oklahoma.

PHILIP B. DEITMER, '44, is doing mineral and metallurgical consulting in iron ore beneficiation, agglomeration and pelletizing, ore dressing, feasibility studies, economic evaluations, and plant design. He was formerly with Kaiser Engineers and the Hanna Mining Company.

JOSEPH B. ELIZONDO, '48, is now mine manager, Missouri Lead Operating Company (Amax-Homestake) in Southeast Missouri. He lives in Salem, Missouri. Brother Elizondo was formerly director of mine engineering and research, White Pine Copper Company, White Pine, Michigan.

WILLIAM B. DAVIS, JR., '51, is a research engineer for the Anaconda Company, Anaconda, Montana.

DR. RUDY C. EPIS, '52, faculty adviser to Gamma Chapter of Theta Tau, taught a course in petrology at Berkeley last summer. At Colorado Mines he is secretary of the Departmental Advisory Committee, secretary of the Graduate Council, and secretary of the Graduate Dean's Fellowship Committee.

CAPT. JAMES J. MCKINSTRY, JR., '60, graduated in August from the Air Force Squadron Officer School at the Air University, Maxwell AFB, Alabama. He was reassigned to Selfridge AFB, Michigan.

### KANSAS

GLENN L. ALT, '16, is retired as professor of civil engineering at the University of Michigan. He lives in Ann Arbor.

JAMES W. ORTON, '17, is retired and living in Detroit, Michigan.

WALLACE M. JAMES, '23, who lives in West Caldwell, New Jersey, is now retired.

GEORGE L. HAWLEY, '23, is retired. His home is in Topeka, Kansas.

WALDO G. BOWMAN, '24, has retired as publisher of *Engineering News-Record and Construction Methods and Equipment*. He was with ENR for 40 years, 24 of those years as chief editor. (See the Spring 1964 GEAR.) Brother Bowman will serve the publications as consulting editor. Current assignments include events in Europe and Egypt.

O. K. JOHNSON, '26, is president of O. K. Johnson Electric, Inc. in Topeka.

PROF. L. O. HANSON, '28, is an advisor of the new Tau Beta Pi Chapter at Wichita State University.



DONALD E. BONJOUR, '31, was recently presented a Distinguished Service Award by the Kansas Association of School Boards for his 22 years of service as a school board member in Lenexa, Kansas. He served as president in 1960-61. Brother Bonjour's many other civic activities include serving on the Kansas State Board of Ed-

## FALL 1965

ucation, the Kansas State Board for Vocational Education, the Overland Park (Kansas) Planning Commission, the Selective Service Board of Johnson County, and the Waterways and Harbor Division Task Committee of ASCE. He has served as president of the Northeast Johnson County (Kansas) School Board Association and as vice president of the Western Region of the National Association of State School Boards. Brother Bonjour is a member of numerous library associations and is president of the Kansas Library Trustee Association. He has served as district chairman of the Boy Scouts of America, as president of the Johnson County Association for Mental Health, as a councilman of the City of Lenexa, as a member of the Johnson County (Kansas) Planning Council, and as vice president of the Zeta Chapter House Corporation. Brother Bonjour is employed by the U. S. Army Corps of Engineers, and is a civil engineer in private practice. He served as city engineer for Lenexa from 1959 to 1962. His professional associations include ASCE, NSPE, the American Congress on Surveying and Mapping, the Missouri Society of Professional Engineers, and the Missouri Association of Registered Land Surveyors. He is a registered engineer in Kansas and Missouri. Brother Bonjour is also a member of Sertoma and Masonic orders. He is listed in *Who's Who in the Midwest* and *Who's Who in Engineering*. In 1964 he received the Distinguished Jayhawk (Kansas) Recognition.

AXEL W. ANDERSON, JR., '39, is a development engineer for the Linde Division of Union Carbide Corporation. He lives in Farmington, Michigan.

GEORGE F. BUNN, JR., '40, has been elected president of Cities Service International, Inc., Brussels, a subsidiary of Cities Service Company. He was also elected vice president of the parent concern.

RICHARD D. LANGE, '41, is design coordinator for Foster Wheeler Corporation, Process Plants Division, in Houston, Texas.

J. B. LADD, '46, is now engaged in petroleum engineering and financial counseling and investments in Denver, Colorado. He has resigned from his position as executive vice president and director of Consolidated Oil & Gas Company, Inc. Brother Ladd has also been employed by Texaco, Inc. and the First National City Bank of New York. He did graduate work in corporate finance at New York University.

PAUL M. PANKRATZ, '55, is assistant production superintendent for Saram-Idland Division of the Dow Chemical Company. He lives in Midland, Michigan.

MILTON D. SILLS, '53, has accepted the position of experimental test pilot and engineer with the Military Division of Cessna Aircraft in Wichita, Kansas. He lives in Augusta.

LEROY W. FELZEN, '56, is supervising service foreman for Southwestern Bell Telephone Company in Wichita, Kansas.

WILLIAM E. FRANKLIN, '57, received his M.S. in industrial administration from Purdue University in August. He is now employed in the Economic Development Division of Midwest Research Institute, Kansas City, Missouri. His home is in Prairie Village, Kansas.

FRANK W. ROEL, '57, is senior production engineer for Mobil Oil Company in Wichita, Kansas.

LT. T. W. DOMVILLE, '60, has been with Navy Fighter Squadron Sixty-two, but planned to be released from the Navy in November. He was married recently.

DONALD L. COFFMAN, '61, is a design engineer for Phillips Petroleum Company. He lives in Bountiful, Utah.

C. ROBERT FRANKLIN, '61, has been transferred by the Kresge Company to Denver, Colorado as senior assistant manager of a new K-Mart store. He previously was in St. Joseph, Missouri. With Brother Franklin are his wife, son, and daughter.

ROBERT J. HERAGEN, '61, is a civil engineer with the FAA in Kansas City, Missouri.

## MIT

VERTREES YOUNG, '16, is retired as director emeritus of Crown Zellerbach Corporation. He is president of the Council for a Better Louisiana, and past president of the Public Affairs Research Council and the Louisiana Forestry Association. Brother Young lives in Bogalusa, Louisiana.

MANLY JARMAN, '25, chairman of Genesco Inc., was featured in the October 15, 1965 issue of *Forbes*.

## COLUMBIA

G. F. COOPER, '14, lives in Blue Hill, Maine.

RENE J. MECHIN, '19, is retired; he lives in New York City.

DR. JOHN J. THEOBALD, '28, is now president of the Educational Science Division of U. S. Industries, Inc. in New York City.

ELMER L. RAUN, '34, is manager of the Avon Refinery of Tidewater Oil Company's Western Marketing and Manufacturing Division. He lives in Walnut Creek, California.

CHARLES M. MCCORMACK, '36, is design engineer for Circle Wire & Cable Corporation of Maspeth, New York. His home is in Scarsdale.

JAMES BARTON, '38, is an engineer (design-chemical) for Eastman Kodak Company in Rochester, New York.

ROBERT L. TAYLOR, '40, is technical assistant for E. I. du Pont de Nemours & Company, Wilmington, Delaware. His home is in Kennett Square, Pennsylvania.

## THE GEAR OF THETA TAU

ARTHUR F. CORYENKA, '41, is a staff engineer for Grumman Aircraft Engineering Corporation, Bethpage, New York. Brother Coryenka is a New York State professional engineer. His home is in Oakdale.

JOSEPH H. LEUNER, '42, is president of Motor Freight System, Inc., Elmford, New York. His residence is in North Tarrytown.

ARTHUR R. ALBORN, '43, is assistant research manager with Raycoeur Incorporated, Eastern Research Division. He lives in Whippany, New Jersey.

DAVID DONALDSON, '43, is project engineer for Delaware Barrel & Drum Company Inc., Wilmington, Delaware.

JOHN K. MLADINOV, '43, is director, Puget Sound Regional Transportation Study, for the State of Washington. He is located in Seattle.

HERBERT H. MARSTON, '44, is owner of the Marston Company of Irvington, New York. He lives in Hastings-on-Hudson.

DONALD D. MACLAREN, '45, has been elected vice president of the Columbia Engineering School Alumni Association. He is manager of the Process Development Staff of the Esso Research and Engineering Company. Brother MacLaren is president of the Metropolitan New York Theta Tau Alumni Association.

HARRY W. FRITTS, '46, is a buyer for the Aluminum Company of America, Pittsburgh, Pennsylvania. He lives in Allison Park.

D. C. BUYS, '47, is assistant supervisor for the Texaco Research Center, Beacon, New York. His residence is in Fishkill.

RICHARD H. WILSON, '48, has been elected president of the Columbia Engineering School Alumni Association. He succeeds WILSON S. BOOTH, Columbia '49. Brother Wilson is in charge of long-range rate planning for the New York Telephone Company with offices in Manhattan. He is a resident of Hartsdale, New York, and active in community affairs there.

JOHN J. KEARNS, '49, is research and development leader for Carter Products, Cranbury, New Jersey. He lives in Trenton.

HERBERT J. JOHNSON, '50, is chief of the Traffic and Planning Department of Burgwin & Martin, Consulting Engineers, in Kansas City, Missouri.

DR. JAMES J. KAUFMAN, '50, is professor and chairman of mechanical engineering at the University of Virginia.

EDWARD G. CLARKE, '51, is a supervisor for the Aluminum Company of America in Edgewater, New Jersey. He resides in Old Tappan.

LAWRENCE E. PHILLIPS, JR., '51, is an associate

for electronics financial analysis with C. M. Loeb, Rhoades & Company, New York City.

BOB P. HELGASON, '53, is chief of the Nevada Extension of the Space Nuclear Propulsion Office (AEC/NASA) in Jackass Flats, Nevada. He lives in Las Vegas.

HENRY L. PARSONS, '53, is a business analyst for the Enjay Chemical Company in New York City.

HARRY W. NAGEL, '54, is a project analyst for the Sun Oil Company in Philadelphia, Pennsylvania. He lives in West Chester.

EDMOND CARLEY, '55, is an engineer with Grumman Aircraft Corporation, Bethpage, New York. His home is in Copiague.

RODNEY S. THEURSTON, '56, is a staff member of the Los Alamos Scientific Laboratory, Los Alamos, New Mexico.

W. MONROE ATKINSON, '57, is a process engineer with Air Reduction Company, Murray Hill, New Jersey. He lives in East Orange.

RUSSELL C. BACCAGLINI, '63, is a mechanical engineer for U. S. Rubber Company's Research Center in Wayne, New Jersey. His home is in Fort Lee.

ARTHUR W. EPLEY, '64, was married to Miss Nancy Ann Hoskins May 8, 1965, in Houston, Texas.

STEVEN L. SHRIER, '64, studied in Mexico last year.

## MISSOURI AT ROLL

RAYMOND E. MURPHY, '23, professor of geography at the Graduate School of Geography of Clark University, Worcester, Massachusetts, has a new book in press with McGraw-Hill entitled *The American City: An Urban Geography*. He is editor of *Economic Geography*.

ROBERT W. AHLQUIST, '24, is professor of electrical engineering at the University of Detroit. He retired from chairmanship of the department in September 1964.

RUEL L. KIRKPATRICK, '31, lives in Houston, Texas, and does occasional consulting in engineering.

BERNARD J. GROSS, '33, is director—marketing for W-K-M, a division of A.C.F. Industries, Inc., Houston, Texas.

ROY C. CORNETT, '38, is general engineer in the office of the chief of engineers, Department of the Army, Washington, D. C. He lives in Alexandria, Virginia.

JESSE S. LeGRAND, '38, is a senior scientist for ITT Federal Laboratories, Nutley, New Jersey. He lives in Clifton.

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

ROY H. BOYD, '45, is a hydraulic engineer in the Bureau of Reclamation, Department of the Interior, Washington, D. C. He lives in Arlington, Virginia.

CARNEY C. FEALES, '46, is distribution superintendent for the Missouri Utilities Company in Cape Girardeau.

R. E. FRAME, '46, is assistant chief engineer for the Southern Pacific Company and St. Louis & Southwestern Railway Company. He is located in Houston, Texas.

RALPH J. FELDBAUS, '47, is a partner in Dolan-Feldhaus Company, Minneapolis. He lives in Wayzata, Minnesota.

RAY E. PICKETT, '48, is manager of Steel Service Center Sales for Youngstown Sheet & Tube Company, Youngstown, Ohio.

ROBERT J. YOCHEM, '49, has been promoted to district sales manager for Bay State Abrasive Products Company, Westboro, Massachusetts. He is located in Houston, Texas; his district includes Texas, Oklahoma, New Mexico, Arkansas, and Louisiana.

ROBERT J. MORRIS, '51, is district office representative for International Nickel Company, Inc. in Kettering, Ohio.

SAMUEL SHAW, III, '51, is an instructor in the Mining Department at Rolla and is participating in research work in hydraulic transport of solids. Previous experience includes work in the Explosives Division of the American Cyanamid Company; at the Colorado School of Mines; for Dravo of Canada, Ltd.; for Kermac Nuclear Fuels Corporation; as manager of a gold mining operation in Honduras; and with the Division of Mineral Resources of the U.S. Bureau of Mines.

ROGER L. ECHELMEIER, '60, is a sales engineer for the Startevant Division of Westinghouse Electric in St. Louis.

KENNETH I. FENILETON, '60, is a sales engineer with Kober Sales Engineering, Inc., Bay City, Michigan. His home is in Farmington.

RICHARD R. KAPFER, '61, is a field engineer for AVCO Corporation. He is presently working on Kwajalein Island on the Nike-X project.

TERRY L. MILLA, '61, is now sales manager with the Southwest Metal Finishing Company, Tulsa, Oklahoma.

ROBERT B. POWERS, '62, is a sales engineer for Rex Chainbelt, Inc., Cleveland, Ohio.

CAPT. JOHN M. DANIELS, JR., '63, is a company commander with the U.S. Army in Frankfurt, Germany.

WADE A. MARTIN, '63, is an engineering trainee with Caterpillar Tractor Company, Peoria, Illinois.

LT. WALTER MUELLER, JR., '63, qualified for the U.S. Army Special Forces by attending airborne school at Fort Benning, Georgia; then jungle school in Panama; and finally a 10-week counterinsurgency course at Fort Bragg, North Carolina.

JAMES S. ALLISON, '64, is a metallurgist for Allis-Chalmers in Milwaukee, Wisconsin.

LT. WILLIAM S. KIRCHOFF, '64, is serving with the U.S. Army's 159th Engineer Group (Construction).

JAMES M. McHUGH, '64, is attending graduate school at the University of Missouri on a NASA traineeship. On April 17, 1965, he was married to Miss Susan Alice Hickman of St. Louis, Missouri.

SAMUEL C. WEAVER, '64, is a metallurgist for Pratt & Whitney Aircraft in Middletown, Connecticut.

VICTOR R. MARSHALL, '65, is a process engineer for Pittsburgh Plate Glass Company in Henryetta, Oklahoma.

## ILLINOIS

HARRY DARRY, '17, was with former President Dwight D. Eisenhower at the Eisenhower Library in Abilene, Kansas recently. A portrait of Brother Darby by James A. Wills was presented to President Eisenhower; it will hang in the presidential suite in the library. President Eisenhower was particularly interested in the progress of an All-Faith Meditation center being built on the grounds, a project which Brother Darby initiated. He is a former Senator from Kansas.

J. P. TUTHILL, '17, is retired; he lives in Elgin, Illinois.

CHARLES H. DODGE, '24, is a retired mining engineer; he lives in Norris, Tennessee.

GEORGE W. ROBENSON, '24, is retired from Humble Oil & Refining Company. His home is in Baytown, Texas.

MAURICE N. QUARE, '25, is a partner in the firm of Parsons Brinckerhoff Quare & Douglas in New York City. His home is in West Orange, New Jersey.

THOMAS C. STRESSER, '26, is retired and living in Lincolnwood, Illinois.

GERALD F. PAULEY, '27, is marketing research analyst for the Organic Division of Monsanto Company, St. Louis. His residence is in Chesterfield, Missouri.

R. H. LANDON, '28, was recently transferred from Birmingham, Alabama to Atlanta, Georgia as outside plant engineer, Southern Area, Long Lines Department of American Telephone and Telegraph Company.

ALVIN E. SCHUBERT, '30, is manager for development and engineering, amateur products, for Eastman Kodak Company, A & O Division, in Rochester, New York.

## THE GEAR OF THETA TAU

JAMES F. CHANDLER, '31, is chief of the Construction Division of the U.S. Army Engineer District at Fort Worth, Texas.

PHILLIP A. ANDERSON, '32, is manager of the Sundstrand Hydro-Transmission Division of the Sundstrand Corporation, Rockford, Illinois.

BRADLEY C. GARDNER, '37, is an engineering consultant in Youngstown, New York.

### UTAH

JAMES C. LITTLEFIELD, '23, is manager of the Salt Lake Division of Utah Power & Light Company.

J. WINSTON ALTER, '26, retired June 30, 1965 as Utah chief engineer for the Mountain States Telephone & Telegraph Company. He had 39 years' service with the company. Brother Alter lives in Salt Lake City.

ELTON W. PACE, '30, is president of Pace-Turpin & Company in Salt Lake City.

MAURICE N. MCKENDRICK, '36, is a sanitary engineer for the Waterworks Equipment Company in Salt Lake City.

IVOR G. PICKERING, '39, has been appointed general manager of the Ray (Arizona) Mines Division of Kennecott Copper Corporation. He was formerly mines plant superintendent of the Utah Copper Division. He joined Kennecott in 1939.

JERIN W. JENKINS, '44, is plant manager of the Salt Lake City Plant of International Pipe & Ceramics Corporation. He is the father of four children.

VERVIN R. GILSON, '47, is senior design engineer for Kaiser Engineers in Salt Lake City.



MAJOR CHARLES D. MARTIN, '50, was recently promoted at Maison Fort near Orleans, France. He is nuclear weapons staff officer in the Munitions and Missiles Branch of the U.S. Army Supply and Maintenance Agency. The agency is part of the U.S. Army Communications Zone, Europe, which provides logistical, communications, and administrative support to U.S. military forces in Europe and the Mediterranean area.

JACK L. DAVIS, '60, is now plant engineer with Morton Salt Company, a division of Morton International, at the Port Huron, Michigan plant. He was formerly a supervisor with Hercules Powder Company.

FREDERICK L. SCHOLLES, '61, is branch manager of Beckman Instruments, Inc. His home is in Brentwood, New York.

ROBERT L. HOPKINS, '62, is a design engineer for General Dynamics/Fort Worth.

JERR AGRAZ, '65, is a traffic engineer with the Utah Department of Highways in Salt Lake City.

GARY A. HEATH, '65, is a design engineer for the Chicago Bridge & Iron Company in Salt Lake City.

### ALABAMA

JUDSON D. BRANCE, '22, is self employed; he lives in Hunt, Texas.

BEATTIE A. INGLER, JR., '22, is a retired contractor who makes his home in Leesville, Louisiana.

WADE B. BARNES, '26, is a realtor in Houston, Texas.

EDWARD H. PRITCHETT, '26, is vice president and general manager of the Southwestern Wood Preserving Company in Muskogee, Oklahoma.

JAMES R. MAXWELL, II, '28, is the Texas distribution engineer for West Texas Utilities Company, Abilene, Texas.

CARL T. JONES, '29, is senior partner in G. W. Jones & Sons, consulting engineers and real estate brokers in Huntsville, Alabama. He was recently elected a member honoris causa of Omicron Delta Kappa, leadership honor society. Brother Jones has participated in many civic activities, including serving as president of the Huntsville Industrial Associates, Inc.; as president of the Rotary Club; as president of the Huntsville Industrial Expansion Committee; as a member of the Chamber of Commerce; etc. He served as Huntsville city engineer for 31 years. During World War II he was a colonel in the Corps of Engineers.

FRANCIS J. PALMER, '31, is chief of safety for the Fire Protection and Protective Division of the Veterans Administration. He lives in Falls Church, Virginia.

WILLIAM L. SOULE, '32, is president of Soule Construction Company, Pensacola, Florida.

WILLIAM F. BOWERS, JR., '33, is a steel plant consultant to Arthur G. McKee and Company, engineers and contractors in Cleveland, Ohio. He lives in Chagrin Falls.

ALBERT T. GOODWYN, '33, is president of Goodwyn Bridge Company, Inc. in Montgomery, Alabama.

J. F. GULMARTIN, '33, is vice president of Sun Industries Corporation in San Antonio, Texas.

LYOYD I. MITCHELL, '33, is a project engineer for the National Lead Company. He lives in Metuchen, New Jersey.

# FALL 1965

COR. WOOD R. PURCELL, '33, is the center engineer at the U.S. Army Engineer School Training Center, Fort Gordon, Georgia.

LOWELL H. BENNETT, '34, is a technical superintendent for Goodyear Tire and Rubber Company in Topeka, Kansas.

A. CARL SCHENCK, '34, is the owner of A. Carl Schenck and Associates in Norfolk, Virginia.

BRIE. GEN. THOMAS B. SIMPSON, '36, commands the Army Mobility Center at St. Louis, Missouri. He lives with his wife, son, and two daughters in Florissant.

RICHARD F. HOENER, '39, is assistant chief of the Structures Division, RTD, AFSC, Wright-Patterson AFB, Ohio. He lives in Kettering.

WILLIAM C. MERRILL, JR., '39, is president of the Merrill Company, Inc. in Gadsden, Alabama.

ARTHUR R. REED, '39, is the industrial sales manager for Masonite Corporation. His home is in Barrington, Illinois.

DUNKLIN H. MCCONNICHIE, '40, has been elected president of American Urethane, Inc., an affiliate of Stauffer Chemical Company, New York City. He lives in Westfield, New Jersey.

REV. STEPHEN W. TURBELL, '40, is the minister of the Pilgrim Church, Duxbury, Massachusetts.

JACK B. EDMONDS, '42, is district manager of the Okonite Company, Houston, Texas. His home is in Bellaire.

PAUL COMBAROW, '44, is head of the Advance Concepts Branch, Aerodynamics Laboratory, David Taylor Model Basin, Washington, D. C. He resides in Rockville, Maryland. Brother Combarow was formerly project manager of the Research Division, FAA, Atlantic City, New Jersey.

FRANK G. TOMPKINS, '44, is section head for engineering at Goodyear Aerospace Corporation, Akron, Ohio. His residence is in Cuyahoga Falls.

THOMAS W. WILDER, III, '46, is employed by the Mellonics Systems Development Division of Litton Industries in Sunnyvale, California. His home is in Slacks, Alabama, and he "commutes" between his home, Washington, D. C., Cape Kennedy, and Sunnyvale.

VINCENT D. LAURIA, '47, is chief industrial engineer for Air Force Instrument Lab, Deer Park, New York. He lives in Jericho, New York.

CHARLES R. OWEN, '47, is an industrial engineer for Procter & Gamble in Omaha, Nebraska.

MONROE B. LANIER, II, '48, is the purchasing agent in charge of the Birmingham Regional Purchasing Office of the U.S. Steel Corporation. He lives in Birmingham with his wife and two children.

MARVIN WALLACE, '48, is a construction engineer

for Phillips Petroleum Company in Bartlesville, Oklahoma.

ARTHUR W. BLACKMAN, JR., '49, has been awarded an Alfred P. Sloan Fellowship for a year's graduate study in management at MIT.

REMO CARBONE, '50, is a staff scientist with Gannett Controls Corporation, Malvern, Pennsylvania. He lives in Philadelphia.

L. J. CANTAFIO, '52, has joined the Aerospace Corporation as a member of the technical staff to perform studies for the Air Force in the Advanced Weapons Systems Department. He is located in San Bernardino, California.

ALBERT A. KELLY, '53, is a project design engineer for Ideal Industries. He lives in Sycamore, Illinois.

PHILIP R. ENOCHS, '54, an engineer for Fernwood Industries, was named "Young Engineer of the Year, 1965" by the Mississippi Chapter of the National Society of Professional Engineers. He was cited for his outstanding achievements in the formation of the Forest Products Utilization Laboratory at Mississippi State University and his other work in industry, civic, and trade organizations. Brother Enochs lives in Fernwood, Mississippi with his wife, son, and daughter.

MARK C. GREGG, '54, is supervisor of the 727 aerodynamics staff for the Boeing Company, Renton, Washington. His home is in Issaquah.

MICHAEL A. GIBBS, '57, was married on August 19, 1965.

JIMMY D. JAMES, '57, is a supervisor in the Process Engineering Department of the Chemstrand Division of Monsanto Company in Decatur, Alabama. He is married and the father of two sons.

RAYBURN C. HAMER, JR., '59, is a senior product engineer for General Electric. He lives in Waynesboro, Virginia.

JAMES L. WOODWARD, JR., '59, is employed by General Electric in Hendersonville, North Carolina.

EARL F. DUBIN, '60, is a staff engineer with Goodyear Tire and Rubber Company, Akron, Ohio.

THOMAS H. GACHET, '60, is a design engineer for Walter Schol Engineering Company in Birmingham, Alabama.

JOHN D. JOHNSON, '60, is employed by NASA at the Marshall Space Flight Center, Huntsville, Alabama.

W. PAUL LYNCH, '60, is an electrical design engineer for Chrysler Corporation's Space Division in Huntsville.

LLOYD F. McEACHERNS, '60, is the secretary-treasurer of Bibb Supply Company, Inc. and Washburn Storage Company, Inc. He resides in Macon, Georgia.

## THE GEAR OF THETA TAU

ELIAS R. CALLAHAN, Jr., '61, is an associate professor of electronic data processing at Chattanooga State Technical Institute in Tennessee.

CARL F. HENSELBACH, '62, is a statistical analyst in the Finance Department of the Ford Motor Company in Dearborn, Michigan. He and his wife live in Birmingham, Michigan.

L.T. ERNEST B. LONGMIRE, Jr., '62, is now stationed at George AFB, California. He is a pilot.

L.T. ALVIN D. MOORE, '63, has completed flight training at Laughlin AFB in Texas and has been assigned to Hickam AFB in Hawaii.

WILLIAM P. NICHOLS, '63, is an electrical engineer for ARO Inc., AEDC, in Tullahoma, Tennessee.

DAVID R. SHAW, '63, has been promoted to director of the Systems Development Department at University Hospital, University of Alabama Medical Center, Birmingham. He became coprincipal investigator of a two-year research grant supported by the U.S. Public Health Service. Brother Shaw is also engaged in graduate studies at the University of Alabama Medical Center.

S. DAVID SANDERS, '64, is an instructor of minerals and metals at the University of Wisconsin in Madison.

CHARLES M. RAMPACK, '65, graduated in chemical engineering with an all "A" average. No other student in recent years has attained such a record. Brother Rampack has attained many other honors, including the Chemistry and Engineering Merit award which went to only 12 students in the U.S. His many activities on campus included being president of Tau Beta Pi. Brother Rampack is now in graduate school at the University of Texas.

### CARNEGIE TECH

EDWARD STEINLE, Hon., '20, is dean emeritus of the College of Mineral Industries at Penn State University. Since his retirement in 1953 he has been chairman of the Federal Coal Mines Safety Board of Review, an independent White House agency.

PAUL F. MAURER, '22, is retired; he lives in Allentown, Pennsylvania.

MILO MATTER, '25, is sales manager for the A & P Tea Company in Pittsburgh, Pennsylvania.

LOUIS LANTENBERGER, '26, president of the W. T. Grant Company, was pictured in the April 1, 1965 issue of *Forbes*.

THOMAS F. BRANTOW, '27, is manufacturing manager of the Industrial Packaging Department of the American Viscose Division, FMC Corporation, Philadelphia. He lives in Villanova, Pennsylvania.

JAMES L. DAVIDSON, Jr., '28, is manager of labor relations for U.S. Steel—American Bridge in Pittsburgh, Pennsylvania.

JOHN E. JACOBS, '28, is employed by Bethlehem Steel Corporation in Bethlehem, Pennsylvania.

JAMES H. DODGE, '31, is general sales manager for the Latrobe Steel Company, Latrobe, Pennsylvania. His residence is in Ligonier.

HARRY R. KRIDER, '33, is sales engineer for the Mechanical Power Transmission Division of Worthington Corporation's Detroit sales office. His home is in Bloomfield Hills. Brother Krider is married and has a married daughter and a son at Berwick Academy in Maine.

JOHN M. HARVEY, '34, is plant accounting section supervisor for Consumers Power Company, Jackson, Michigan. He is the father of five children.

HARRY A. MCCULLOUGH, '35, is head of the Accessories Section, Power Plant Division, of the Bureau of Naval Weapons, Washington, D. C. He has been with the Navy Department for 30 years. Brother McCullough lives in Alexandria, Virginia.

DR. LAWRENCE K. JETTER, '36, is senior research scientist in the Department of Metallurgical Research of Kaiser Aluminum & Chemical Corporation. He is located in Spokane, Washington.

HARRY F. ROBEY, Jr., '37, is chief construction engineer for the Aluminum Company of America in Pittsburgh, Pennsylvania.



JACK E. BUYP, '42, has been appointed manager, urban transit markets at General Railway Signal Company, a unit of General Signal Corporation. He is located in Rochester, New York. Prior to joining GRS, Brother Bupp had served since 1947 with Union Switch and Signal Company, leaving there as assistant to vice president—

general manager and project manager. He served as a captain in the U.S. Army Signal Corps during World War II, then did graduate work at Carnegie Tech. He is a member of the Communication and Signal Section, Association of American Railroads, and the Railway Club of Pittsburgh.

BENJAMIN G. MARCIN, P.E., '43, is division engineer-civil engineering for the M. W. Kellogg Company, New York City. He lives in Brooklyn.

H. R. ROSENBLUM, '44, is vice president of the Rosenblum Brothers Company, Niles, Ohio. He resides in Hubbard.

ROLF WEIL, '46, is associate professor of metal-



## FALL 1965

lurgy at Stevens Institute of Technology, Hoboken, New Jersey.

WILLIAM B. SKELTON, '47, is a senior engineer with E. I. du Pont de Nemours Company, Kinston, North Carolina. His home is in Grifton.

MAJOR KARL B. WEBER, III, '47, is assistant professor of military science at the University of Cincinnati.

DENNIS J. O'BRIEN, '48, is a project engineer for Dairypak, a division of Champion Papers, Inc., Cleveland, Ohio. He is a registered professional engineer in Ohio and a member of IEEE and NSPE. Brother O'Brien lives in Lorain.

DR. GEORGE B. MATTHEWS, '49, is associate professor of aerospace engineering at the University of Virginia.

### WISCONSIN

ERNEST J. SCHRAEDER, Hon. '21, is a retired lawyer who lives in Saint Paul, Minnesota. He is the brother of Theta Tau's late Founder, Erich J. Schrader.

WILLIAM B. MURPHY, '28, president of Campbell Soup and chairman of the President's Business Council, was featured in a profile in *Forbes*, July 15, 1965.

RICHARD J. SLIFKA, '31, is head of the Engineering Equipment Section of the AC Electronics Division of GMC, Milwaukee, Wisconsin. He resides in West Allis.

DONAVON C. VOEGEL, '36, is a senior staff engineer (mechanical-procurement) for Firestone Tire & Rubber Company, Akron, Ohio.

WALTER E. LUTHEY, '60, has accepted the position of divisional manager of quality control and laboratories with Argus, Inc. in West Columbia, South Carolina.

ROBERT S. BURDICK, '62, is a project engineer for Miles Laboratories, Inc., Elkhart, Indiana. Previously he was application engineer with Vilter Manufacturing Corporation, Milwaukee, Wisconsin.

LT. JOHN R. IMHOFF, '63, has graduated from the Air Force navigator school at James Connally AFB, Texas. He was assigned to Mather AFB, California for specialized training.

ROBERT O. GEORGE, '65, is a civil engineer for the Boeing Company in Mayville, North Dakota.

### IOWA

GORDON B. LUNT, '21, divides his year between Myrtle Beach, South Carolina and Fort Lauderdale, Florida.

DWIGHT K. SHORE, '21, retired in 1964 after 43 years with Bethlehem Steel Company. His last position was resident salesman covering Kentucky

and southern Indiana. Brother Shore lives in Louisville.

CHARLES E. STOCKNEY, '21, is a consulting structural engineer in North Hollywood, California.



DR. F. T. MAVIS, Hon. '22, has resigned as dean of the College of Engineering at the University of Maryland to become professor of mechanical engineering at the University. He had served for 32 years as department head or dean in four major universities. Brother Mavis holds four degrees from the University of Illinois and studied in Europe as a Freeman Fellow of the ASCE. He has been awarded the Wason Medal for Research by the American Concrete Institute. Before going to Maryland he served at the University of Iowa, Pennsylvania State, and Carnegie Tech. Brother Mavis is a registered professional engineer in Iowa, Pennsylvania, Maryland, and Illinois, and as a structural engineer in Illinois. He is a Fellow and life member of ASCE, and a member of ASME, AWW, ACI, IAHR, ASEE, SAME, Tau Beta Pi, Phi Kappa Phi, Sigma Xi, Chi Epsilon, Gamma Alpha, Kappa Alpha Psi, and Pi Kappa Phi.

JOSEPH J. DIGNAN, '23, is retired and living in Wheaton, Illinois.

RAYMOND M. ANDERSON, '24, has retired from McGill Inc. He lives in Washington, Iowa.

JOSEPH M. DEAN, '24, is executive director of the Iowa Engineering Society, Des Moines.

JOHN S. HOLBROOK, '24, is retired. He makes his home in Ephraim, Wisconsin.

PAUL B. MARNER, '24, has retired and lives in Escanaba, California.

FRED W. DEKLOTZ, '25, is sales manager for the Western Division of Pittsburgh Des Moines Steel Company, Santa Clara, California. He lives in San Jose.

LAURENCE L. FRY, '25, is president of Voltmaster Company, Inc., Corydon, Iowa.

MARK J. HESS, '25, is retired as manager of the Engineering Department of Wilson & Company, Inc., Chicago. He built his retirement home in the northern tip of the Black Forest about 20 miles out of Denver, where he is enjoying the rural life and trout fishing.

EMIL P. SCHULLEN, '26, is a civil engineer for the

## THE GEAR OF THETA TAU

Pittsburgh Army Engineer District, Pittsburgh, Pennsylvania.

ERNEST T. SCHULEEN, '26, is manager of the Safe Harbor Water Power Corporation, Conestoga, Pennsylvania.

FRED B. SMITH, '26, has retired as vice president of Western Electric Company, New York City. His home is in Fairmont, Minnesota.

DECK C. THOMPSON, '26, is director of sanitation environmental health for the Health Department of Metropolitan Nashville and Davidson County, Nashville, Tennessee.

DR. LAWRENCE A. WARE, '26, is professor of electrical engineering at the University of Iowa.

C. B. ANDERSON, '27, is an urban engineer for the Iowa State Highway Commission at Ames.

ALBERT CARLSON, '27, is vice president of the Iowa Power & Light Company in Des Moines.

JOHN H. FOLWELL, '27, is manager of manufacturing services at the Kodak Park Works of Eastman Kodak Company, Rochester, New York.

BERNARD A. FULLER, '27, is president of the Fuller Manufacturing Company, Centerville, Iowa.

W. A. ELLIOTT, '28, is owner of Elliott's at Fort Lupton, Texas.

LYOUD L. HERRICK, '28, is senior engineer in the Building Engineer's District, Chief Engineer's Department of the Pacific Telephone and Telegraph Company, San Diego, California. He is a registered engineer in California, and lives in La Jolla.

MARSHALL B. HURN, '28, is chief engineer for the Iowa Public Service Company, Sioux City.

A. I. HERS, '29, is superintendent of the Stores Division at the Kodak Park Works of Eastman Kodak Company, Rochester, New York. He works with Brothers JOHN FOLWELL and JERRY REID.

M. H. "SWINE" JENSEN, '29, is chief of specifications for Wirtz, Calhoun, Tungate & Jackson, Architects, in Houston, Texas. His home is in La Marque.

JOSEPH O. SHERROD, '30, is works manager at the Montevallo Plant of United States Gypsum Company in Montevallo, Alabama.

CARL E. RANTZOW, '31, is assistant commissioner of the Public Works Service, Washington, D. C. He lives in Alexandria, Virginia.

EMIL H. RAUSCH, JR., '31, is chief of the Program Development Branch, Rock Island District, of the U.S. Army Corps of Engineers in Rock Island, Illinois.

LAWRENCE W. SMITH, '31, is vice president of Jens

Olesen & Sons Construction Company, Waterloo, Iowa.

A. E. STANLEY, '31, is employed by the Stanley Engineering Company, Muscatine, Iowa.

GERALD O. YOUNG, '32, is a partner in Kottcamp & Young, Chicago, Illinois. His home is in Williams Bay, Wisconsin.

HAROLD E. WICKHAM, '33, is an engineer at Kelly Air Force Base. He lives in San Antonio, Texas.

JOHN J. PRICHETT, '34, is an engineer for Hilton-Davis Chemical Company, Cincinnati, Ohio.

HENRY Z. HARDAWAY, '40, is director of systems engineering for Bell Telephone Laboratories, Holmdel, New Jersey. He resides in Rumson.

CHARLES J. KIPPENRIAN, '40, is professor and chairman of the Department of Mechanical Engineering at the University of Washington, Seattle.

ALFRED N. HOLMBERG, '43, is a sales representative for Badger Limited, London, England.

ROBERT F. ERICKSON, '48, is a construction engineer for Veenstra & Kimm, West Des Moines, Iowa.

HAROLD A. HUDACHEK, '48, is a project engineer for the 3M Company of St. Paul, Minnesota. He lives in Stillwater. Brother Hudachek would like to hear from Omicron brothers in the region.

E. C. SINCON, '48, is an engineer for Haynesville Operators Committee, Haynesville, Louisiana.

GORDON B. COLEMAN, '49, is vice president of Premier Petrochemical Company, Pasadena, Texas. His residence is in Houston.

C. E. PETERSON, '50, is owner of Peterson Engineering Company, Iowa City, Iowa.

RICHARD A. PARAMORE, '51, is a plant engineer (Hutchinson and Denver) for the Packaging Corporation of America. He lives in Hutchinson, Kansas.

RICHARD B. AZELTYNE, '52, is senior design engineer for North American Aviation, Inc., Rocketdyne Division, in Canoga Park, California. His home is in Chatsworth.

JACK W. CLEMENS, '52, is a regional engineer for the Iowa State Department of Health in Des Moines. He is presently serving as president of the Iowa Public Health Association.

WALTER L. JEAN, '52, is a member of the technical staff of Hughes Aircraft Company, Fullerton, California. He lives in Buena Park.

L. EARL TABLER, JR., '52, is a civil engineer for the Machinery Division of Dravo Corporation, Pittsburgh, Pennsylvania. His home is in Coraopolis.

## FALL 1965

WARREN O. ESSLER, '53, is dean of the College of Technology at the University of Vermont, Burlington.

FRANCIS M. LONG, '53, is a professor of electrical engineering at the University of Wyoming, Laramie.

HAROLD R. MILLER, '54, is an electrical engineer for TRW Systems, Washington, D. C. He lives in Springfield, Virginia.

DWAYNE L. MOZEY, '54, is a staff member in mechanical engineering for Sandia Corporation, Albuquerque, New Mexico.

ROBERT H. VON STEIN, '54, is an engineer for Western Electric Company. He is located in North Bend, Oregon.

WALTER H. JOHANNSEN, '55, is chief design engineer for Daily & Associates, Engineers, Inc., Champaign, Illinois.

CHARLES V. FADA, '56, is senior project engineer in the Air Force Weapons Lab, Kirtland AFB, New Mexico. He lives in Albuquerque.

LAVERNE W. FLACEL, '56, is an engineer-estimator for Rinderknecht Construction Company, Cedar Rapids, Iowa.

THOMAS E. GIBLIN, '56, is a systems engineer for IBM in Cedar Rapids, Iowa.

GEORGE L. HANSEL, '56, is a public health engineer for the State Board of Health, Madison, Wisconsin. His home is in Verona.

LOUIS C. PRAY, '56, is a sales engineer for Clark Brothers Company Division of Dresser Industries. He lives in Naperville, Illinois.

DARRELL J. ULICH, '56, is a design engineer with Collins Radio Company, Cedar Rapids, Iowa.

LES BENKO, '57, is a chemical engineer for Union Carbide's Food Products Division. His home is in Hollywood, Illinois.

DUANE A. BLACK, '57, is a value engineer for Univac in St. Paul, Minnesota. He lives in Savage.

JAMES W. KANTER, '57, is supervisor for process and industrial engineering with the 3M Company, St. Paul, Minnesota.

CLYDE E. BRADLEY, '58, is a project engineer for advanced technology with the U.S. Army Weapons Command, Rock Island, Illinois. He lives in Clinton, Iowa.

GALEN BRENNAN, '58, is an engineer-estimator for General Filter Company, Ames, Iowa.

RICHARD MAXWELL, '58, has formed Maxwell Construction Company of Lincoln, Nebraska. The firm will specialize in structures for dams.

JAMES M. SMITH, '58, is maintenance supervisor for du Pont in Parkersburg, West Virginia. He lives in Vienna.

THOMAS A. CHURCH, '59, is chief engineer for International Molding Machine Company, LaGrange Park, Illinois. His home is in Downers Grove.

W. D. EMANUEL, '59, is a project engineer for Rocketdyne. He is located in Calabasas, California.

MARVIN L. HELD, '59, is a design engineer for Hughes Aircraft Company, Tucson, Arizona.

JERRY T. PARKS, '59, is a product engineer with Wagner Electric Corporation, St. Louis, Missouri. He resides in St. Charles.

JAMES J. WEINTRAUT, '59, is an industrial engineer at the Rock Island Arsenal, Rock Island, Illinois. He lives in East Moline.

FRED M. WELCH, '59, is a research engineer for Allis Chalmers, Milwaukee, Wisconsin. His home is in Oconomowoc.

TOM A. WOODRUFF, '59, is an engineer for the Iowa-Illinois Gas & Electric Company, Rock Island, Illinois.

RONALD V. YAGGY, '59, is a project engineer for Wallace Holland Kastler & Schmitz, Mason City, Iowa.

THOMAS R. HANSON, '60, is a sales management engineer for the Trane Company in LaCrosse, Wisconsin.

GEORGE W. HEASLEY, '60, is an industrial engineer for United Parcel Service, Decatur, Illinois.

GERALD E. MANN, '60, is resident product engineer for the Trane Company in Clarksville, Tennessee.

HERBERT W. MARSH, '60, is a civil engineer with the U.S. Army Corps of Engineers, Rock Island, Illinois. He lives in Bettendorf, Iowa.

RICHARD H. BALSTON, '60, is senior associate engineer for IBM's Development Lab in Rochester, Minnesota.

CHARLES M. SCHMIDT, '60, has his own mechanical engineering firm in Cleveland. He lives in Barberton, Ohio.

DAVE TAYLOR, '60, is an industrial engineer for the Maytag Company, Newton, Iowa.

ROYAL W. TURNER, '60, is maintenance foreman at the general plant of Pittsburgh Plate Glass in Barberton, Ohio.

THOMAS G. HAVEL, '62, is a supervisor for du Pont in Clinton, Iowa.

CHARLES B. KIME, '62, is a graduate student and instructor at the State University of Iowa.

## THE GEAR OF THETA TAU

RONALD R. LARSON, '62, is a personnel engineer for the Boeing Company in Renton, Washington. He lives in Bellevue.

JAMES E. TOMLINSON, '62, is an electronic engineer for the U.S. Army's Electronics Command at Fort Monmouth, New Jersey. His home is in Neptune City.

RICHARD D. EICHNER, '63, is an electronics engineer in instrumentation for United Aircraft's Hamilton Standard Division at Windsor Locks, Connecticut.

JOHN L. PFISSEY, '63, is an assistant civil engineer for the Department of Water Resources (Thermalite Power Plant) in Oroville, California.

### VIRGINIA

WARREN W. VIA, '29, is state sales representative for school books for Holt Rinehart & Winston, Inc., Publishers. He is located in Chapel Hill, North Carolina.

EDWIN B. DUNN, '39, is communications superintendent for Atlantic Refining Company, Philadelphia, Pennsylvania. He lives in Wayne.

FRANCIS A. DUNNINGTON, '41, has been named corporate director of engineering by American Urethane, Inc., an affiliate of Stauffer Chemical Company. His headquarters will be at the plant in North Chicago, Illinois.

JOHN T. SMITH, '52, is an associate of Baldwin & Gregg, Engineers & Surveyors, in Norfolk, Virginia. He lives in Virginia Beach.

JOSEPH G. PAYNE, '61, is a Ph.D. candidate at Purdue University, West Lafayette, Indiana. He was married in June 1963 to Miss Sharon Lynne Mahanes.

ROBERT E. BIEDINGER, '62, was released in June from the Marine Corps, and planned to join Chesapeake and Potomac Telephone Company of Maryland in their management training program.

LUCIEN L. BASK, III, '63, is with the Bahnum Company in Winston-Salem, North Carolina. The company designs and manufactures industrial air conditioning equipment and textile cleaning equipment.

GARTH F. FORT, '64, is assistant supervisor of mines and washer for the Monsanto Company, Columbia, Tennessee.

LT. ALBERT B. HUTTON, JR., '64, is at the Atlanta Army Depot, Forrest Park, Georgia.

ENS. CHARLES R. RICE, JR., '64, completed OCS at Newport, Rhode Island in August, and is now at CEC Officers School at Fort Hueneme, California.

ROBERT M. KELLY, '65, is taking graduate student

training with Westinghouse Electric. He lives in Marion, Virginia.

ROBERT C. SUMNER, '66, is a medical student at the University of Virginia School of Medicine.

### NORTH CAROLINA STATE

THEODORE C. BROWN, Hon. '31, is a consulting engineer in Raleigh, North Carolina.

JOE L. PLEASANTS, '33, is an executive of Joe L. Pleasants, Inc., wholesale distributors of electric appliances in Charlotte, North Carolina.

M. S. HAYWORTH, '39, is secretary and treasurer of Brewer Paint & Wall Paper Company, Rocky Mount, North Carolina.

DOUGLAS A. CRAVEN, '43, is an engineer for support equipment and specifications at Grumman A/C and Engineering Corporation, Bethpage, New York. His home is in Massapequa Park.

GEORGE P. GREENE, '44, is owner and manager of Greene Construction Company and Watauga Ready Mix, Boone, North Carolina.

MARION C. SASSER, '45, is owner of Sasser Equipment Company, Danville, Virginia.

ROBERT N. M. UHASE, '45, is chief of field operations for Azufra Panamericana in Jaltipan, Veracruz, Mexico.

LEWIS M. ALLEN, '50, is district sales manager for Harbison-Walker Refractories Company, Charlotte, North Carolina.



MARCUS B. CROTTS, '53, is a partner in Crotts & Saunders Engineering, Inc. in Winston-Salem, North Carolina. He has been elected chairman of the Piedmont Carolina Chapter of the American Society of Tool and Manufacturing Engineers. He is also a past president of the Winston-Salem Engineers Club and past chairman of the Piedmont Carolina Section of the American Society of Mechanical Engineers. Brother Crotts is a registered professional engineer in North Carolina and is a member of Pi Tau Sigma. Previous work experience included engineering for the Duke Power Company, the Babcock and Wilcox Company, and the Western Electric Company.

WILLIAM I. BIGGER, JR., '56, is a consulting structural engineer in Raleigh, North Carolina. He is a registered engineer in North Carolina and Virginia, and is a member of NSPE, ASCE, and CSI. He is married and has one son.

## FALL 1965

JOSEPH T. PEARSON, JR., '56, is an instructor of engineering at the State University of New York at Stony Brook.

CHARLES D. AVERETTE, '60, is a water and sanitary sewer engineer for the Public Works Commission, Fayetteville, North Carolina.

ROBERT W. WATERS, '60, is assistant executive officer at the Major Item Data Agency, Letterkenny Army Depot, Chambersburg, Pennsylvania. His home is in Roanoke Rapids, North Carolina.

TRUMAN L. KING, JR., '61, is an engineer for General Electric Company, Philadelphia. He lives in King of Prussia, Pennsylvania.

BEN E. LEMONS, '61, is a chemical engineer-production for the Fibers Division of Allied Chemical Corporation, Hopewell, Virginia. His home is in Chester.

JOHN C. OVERTON, JR., '61, is assistant resident engineer for the North Carolina State Highway Commission in Rocky Mount, North Carolina.

WILLIAM F. HUNTER, '62, is working toward his M.S. in applied mechanics at the University of Virginia. He was an aerospace technologist at NASA's Langley Research Center, Hampton, Virginia.

BURNELL P. CURTIS, '63, is a chemical engineer for Monsanto Company, Alvin, Texas. He lives in Houston.

EDWIN W. HAUSER, '63, is a graduate student in civil engineering at North Carolina State. He expects to receive an M.S. in transportation engineering and a master of regional planning degree in June 1966.

VICTOR E. CLAYTON, JR., '64, is a junior engineer at IBM's Office Products Division, Lexington, Kentucky.

## OHIO STATE

JOHN C. FIDOR, Hon. '06, is retired; he lives in Columbus, Ohio.

EMMETT E. KNORR, '27, is vice president and construction engineer for Max J. Zeller, Inc., Columbus, Ohio.

FRED E. ULLERY, '27, is principal engineer on the Engineering Staff of Ford Motor Company in Dearborn, Michigan. He lives in Detroit.

RAYMOND Q. ARMINGTON, '28, is president of the Triax Company, Cleveland. His home is in Wiloughby, Ohio.

ELLAWORTH G. WILLIAMS, '28, is vice president, engineering of the Formica Corporation, a subsidiary of Cyaramid. He is located in Cincinnati, Ohio.

EDGAR B. ROBINSON, '29, is supervisor of data

systems engineering for Bell Telephone Laboratories, Holmdel, New Jersey. His home is in Middletown.

JOHN W. JORDAN, '30, is assistant to the administrative vice president for accounting of U.S. Steel in Pittsburgh, Pennsylvania.

ELBERT J. BOEBINGER, '38, is director of development and planning for the Bushman Company, Canton, Ohio.

PAUL H. BOWEN, '40, is senior scientist at Westinghouse Research Laboratories, Pittsburgh, Pennsylvania. He lives in Irwin.

GEORGE H. MONTGOMERY, '44, is sales manager for Dayton Chemical Products, West Alexandria, Ohio. His home is in Brookville.

RUSSELL W. BARTHOLOMEW, '46, is market manager for Ranco, Inc., Columbus, Ohio.

GEORGE WARREN, '48, is manager of technical development for Pfaufler-Permutit, Inc., Rochester, New York. He resides in Pittsford.

GEORGE MCCONEGNEY, JR., '49, is production planning manager for Massey-Ferguson Ltd., Toronto, Ontario. His home is in Oakville, Ontario.

JOHN R. BAECHLE, '55, is a member of the technical staff at Bell Telephone Laboratories, Whippany, New Jersey. He lives in Parsippany.

RICHARD C. EDDMAN, '59, is a senior staff analyst for Magnavox Company engaged in anti-submarine warfare. He is located in Fort Wayne, Indiana. Brother Erdman's first child, a son, was born in September 1963.

GARY GORS, '59, is a senior engineer with Standard Computer Corporation, Phoenix, Arizona.

CHARLES W. CAUDY, '62, is an aerospace engineer for the U.S. Air Force at Wright-Patterson AFB, Ohio. His home is in Dayton.

C. FRED LEITHE, '62, is a guidance and control engineer for McDonnell Aircraft Corporation in St. Louis. He is also doing graduate work at St. Louis University. Brother Leithe makes his home in Bridgeton, Missouri.

EDWARD C. RUFF, '62, is a process engineer for the Inland Manufacturing Division of General Motors Corporation in Dayton, Ohio.

DAVID A. SCALEA, '62, is associate supervisor at the Department of Electrical Engineering of Ohio State University.

FREDERICK J. TOMAZIC, '63, is a graduate student and research assistant at Ohio State University.

RONALD E. KINSELL, '64, is a process scientist for Owens-Corning Fiberglass Corporation at Granville, Ohio. He lives in Newark, Ohio.

## THE GEAR OF THETA TAU

**CHARLES I. WILSON**, '64, is attending the University of Vermont at Greensboro. He is a temporary engineer aide for the Vermont Highway Department.

**PETER L. LEFFLER**, '65, is working in the Gas Engineering Department of Consumers Power Company in Jackson, Michigan. Working with him in the same department is **ED DOSS**, Wisconsin '65. Brother Leffler lives in Napoleon, Michigan.



**Ed Doss**, Wisconsin '65, and **Peter Leffler**, Ohio State '65, found themselves working together on a project in the Gas Engineering Department of Consumers Power Company.

### SYRACUSE

**ROBERT H. HUGHES**, '25, is vice president for engineering of Petrocarb, Inc., New York City. His home is in Glen Ridge, New Jersey.

**LENNY MICKLEY**, '20, is head of the Georeference Navigation Section, Avionics Division, of the Bureau of Naval Weapons, Washington, D. C. His home is in Bethesda, Maryland.

**EDRMAN S. REYNOLDS**, '26, is a senior engineer for the Mobil Oil Company, New York City. He lives in Stamford, Connecticut.

**JOHN V. GROVE**, '27, is construction supervisor for the New York Telephone Company, Buffalo, New York. He resides in Kenmore.

**THEODORE F. HALL**, '27, is president and chief engineer of T. P. Hall Engineering Corporation, Gillespie Field, Santee, California. He lives in San Diego.

**NORMAN W. SEITZ**, '27, is division traffic superintendent for the New York Telephone Company, Utica, New York.

**GEORGE T. FAYLE**, '28, is division plant supervisor for the New York Telephone Company, Buffalo, New York. His home is in Kenmore.

**WALTER CAREY**, '29, is a senior engineer for the American Telephone and Telegraph Company in White Plains, New York.

**FRANK C. CASAVANT**, '29, is distribution engineer (electrical) for Niagara Mohawk Power Corporation in Syracuse, New York.

**F. S. GIBBS**, '29, is treasurer of Engineering Sales Corporation of Wellesley Hills, Massachusetts. He lives in Waban.

**WILLIAM H. ADAMS**, '30, is a senior civil engineer for the New York State Department of Public Works in North Syracuse. He is a resident engineer for state highway maintenance.

**WILLIAM GIESLOW, P.E.**, '30, is a self-employed civil engineer, surveyor, and consultant in Lewiston, New York.

**CHARLES W. RILEY**, '30, is a production engineer for Consolidated Edison Company, New York City. He lives in Beechhurst.

**JOHN M. SHAPPELL**, '30, is president of Coan & Bunnell, Inc., New Haven, Connecticut. His home is in Woodbridge.

**BERNARD D. BLOSER**, '31, is manager of manufacturing for the Southern Metal Division of Continental Can Company, Inc. He is located in Tampa, Florida.

**R. TILBOK HEDGECOCK**, '31, is a physical scientist for the U.S. Air Force's Aeronautical Chart and Information Center in St. Louis, Missouri.

**JOHN T. HENDERSON**, '31, is substation design manager for Commonwealth Associates Inc., Consulting Engineers in Jackson, Michigan.



**CAPT. V. RALPH SOBIERALSKI**, '31, has been appointed commanding officer of the *Surveyor*, the largest ship of the Coast and Geodetic Survey. It is one of 14 ships in the "white fleet" which surveys coastal waters, searches for underwater hazards to navigation, makes gravity and magnetic measurements, conducts tidal and tidal current surveys, and engages in deep sea oceanographic research. Brother Sobieralski was recently promoted from commander to captain. He has had previous assignments aboard 10 vessels, and has served with a hydrographic field party in Alaska, a geodetic field party in the Central States, and with the Pacific Tide Program in the Pacific Islands. He was chief of the Portland,

Oregon Photogrammetric Office for two years, and in charge of the Tampa, Florida District Office for three and one-half years. His most recent assignment was as commanding officer of the St. Petersburg, Florida-based *Hydrographer*. Brother Stierski served as an Army survey officer in Europe in World War II. He is married and has one son.

J. E. BACKMAN, '32, is supervisor of operations and maintenance for Gulf Research & Development Company, Pittsburgh, Pennsylvania. He lives in Gibsonia.

H. W. BELL, '32, is director of packaging for Dow Chemical Company, Midland, Michigan.

C. ALLAN GELMOUR, '32, is assistant to the vice president of Pennsalt Chemicals Corporation in Philadelphia. He lives in Doylestown, Pennsylvania.

OTTO H. PETERS, '32, is principal power engineer for Allied Chemical Corporation in Syracuse. He lives in Fayetteville, New York.

HOWARD W. AVERY, '33, is project engineer for the General Electric Company in Schenectady, New York.

LEO Q. FRANK, '33, is resident engineer for the U.S. Army Engineering District at Baltimore. His home is in Laurel, Maryland.

JAMES Y. HOWARD, '33, is a senior engineer for General Railway Signal Company, Rochester, New York. He lives in Spencerport.

JOHN B. PIERSON, '33, is senior mechanical design engineer for Link Division of General Precision, Binghamton, New York.

WALDO C. PAGE, '34, is supervisory engineer for the U.S. Air Force at Patrick AFB, Florida. He lives in Merritt Island.

MILTON S. PERROTT, '34, is building manager and store superintendent for the Kleinhans Company, Buffalo, New York. His home is in Williamsville.

WALTER H. CARLE, '35, is project engineer for Clark, Clark, Millis & Gilson, A.L.A., in Syracuse. His residence is in Cortland, New York.

W. E. CHAMBERLAIN, '37, has been transferred to New York City as assistant general sales engineer for the Otis Elevator Company. He is living in Berkeley Heights, New Jersey. Brother Chamberlain had been regional sales manager in St. Louis for 15 years.

CHARLES W. FLORENC, '37, is a manufacturer's representative for C. W. Florenc & H. R. Murray, Inc. in Syracuse, New York.

WILLIAM F. BOYLE, '38, is manager of commercial and industrial programs for Electric Heating Association. He lives in Bethesda, Maryland.

LEO M. BURBRIDGE, '39, is a lieutenant colonel in the U.S. Air Force in Denver, Colorado.

G. C. GETTY, '39, is a civil engineer for the General Electric Company in Syracuse. He lives in Fayetteville, New York.

ROBERT J. GUIENNON, '39, is assistant chief engineer for Crowley's Milk Company Inc., Binghamton, New York.

WILLIAM C. JOSLYN, '39, is an administrative assistant (ADP system analyst) at Vitro Laboratories, Silver Spring, Maryland. His home is in Arlington, Virginia.

A. TRAVASTINO, '39, is superintendent of product engineering and control for Remington Arms Company Inc. He is located in Independence, Missouri.

DONALD N. BRIDGWATER, '40, is a service technician (aircraft engine test tooling) for the Pratt & Whitney Aircraft Division of UAC in East Hartford, Connecticut.

PAUL J. HAROLD, '40, is a senior maintenance engineer for E. I. du Pont de Nemours & Company, Inc. at the Niagara Works. He lives in Wilson, New York.

HOWARD O. WARD, '40, is a partner in St. John Associates, Consulting Engineers, Binghamton, New York. His residence is in Candor, New York.

DONALD F. AMES, '41, is in a supervisory position with Sperry Gyroscope Company in Great Neck, New York. He lives in Huntington.

JACK W. COTTRELL, '41, is self employed as a licensed land surveyor in Manlius, New York.

D. R. POWERS, '41, is vice president of Syracuse Supply Company. He lives in Manlius, New York.

A. L. WOLFE, '41, is manager of engineering for General Electric Company in Burlington, Vermont.

WILLIAM F. H. MCCARTHY, P.E., '42, is owner of Frank P. McCarthy, Mason & Building Supplies Inc., in Syracuse, New York.

JAMES E. SULLIVAN, '42, is division president of Amphmol Corporation. He is located in Delavan, Wisconsin.

FLOYD E. WHITE, '42, is a senior civil engineer for canal design with the New York State Department of Public Works in Utica.

WILLIAM M. ALLEN, '43, is a design engineer for General Electric Company. His home is in Cazenovia, New York.

PAUL W. BERTHOLD, '43, is president of Berthold Electric Company, Inc. in Barberton, Ohio. He lives in Peninsula, Ohio.

JAMES E. CARPENTER, '43, is assistant department

## THE GEAR OF THETA TAU

head at Cornell Aeronautical Laboratory, Buffalo, New York. His home is in Williamsville.

DANIEL R. FISHER, JR., '43, is manager of product engineering in the Absorption Air Conditioning Division of Whirlpool Corporation, St. Joseph, Michigan. He lives in Stevensville, Michigan.

PAUL W. HERRICK, '43, is manager of quality control for Pass & Seymour, Inc., Solvay, New York. He lives in Syracuse.

SCHUYLER W. JACKSON, '43, is a staff industrial engineer for Continental Can Company Inc. He lives in Park Forest, Illinois.

NELSON R. PEET, JR., '43, is a doctor of chiropractic in Newburgh, New York.

HAROLD F. GREINER, '44, is vice president and general manager of the Warwick Division of Sealot Inc. in Providence, Rhode Island. He lives in Warwick.

WILLIAM C. JORDAN, '45, is manager of Charles L. Jordan & Sons, Inc. in Syracuse. His home is in Jamesville, New York.

BRUCE M. ALLEN, '47, is chief standards engineer for Edo Corporation, College Point, New York. He lives in Carmel.

ATWOOD L. FULLER, '47, does product and sales planning for General Electric Company. He is located in Louisville, Kentucky.

ALAN C. LEWIS, '47, is a factory manager for the Dura Division of Dura Corporation. His home is in Temperance, Michigan; he is the father of seven sons and one daughter.

LAURENCE A. ALEXANDER, '48, is president of Laurence A. Alexander & Company, Inc. of New York City. The firm does consulting and publishing in planning and renewal of central business districts.

RICHARD J. HAPPECK, '48, is a project manager and staff officer for the U.S. Army in Washington, D.C. He lives in Kensington, Maryland.

DR. JOHN S. HOYT, JR., '48, is director of the Management Sciences and Economics Division of North Star Research and Development Institute in Minneapolis. He resides in Edina, Minnesota.

MARTIN J. JOEL, JR., '48, is proprietor of Martin J. Joel & Company in New York City. His home is in White Plains, New York.

HOWARD W. PRESTON, '48, is development manager and deputy for advanced planning of Aeronautical Systems Division, Dayton, Ohio.

WARREN REINHARTER, '48, does program control for General Electric. He lives in Dewitt, New York.

ROBERT J. SPANLING, '48, is manager of optical en-

gineering for General Electric Company. He lives in Waverly, Pennsylvania.

CHARLES F. BARKER, '49, is a senior contract coordinator for Lockheed Missiles & Space Company, Sunnyvale, California.

RALPH D. DIEBEMEYER, '49, is a mechanical engineer for the Department of the Army, Washington, D. C. He lives in Springfield, Virginia.

WILBUR C. COWELL, '49, is district manager of the Crouse-Hinds Company. He is located in Milford, Ohio.

JAY E. ENDBERG, '49, is manager of manufacturing engineering for the Carrier Air Conditioning Company. He lives in East Syracuse, New York.

EDWIN P. HESS, '49, is an equipment engineer for IBM in Poughkeepsie, New York.

DONALD C. MARCELLUS, '49, is a sales engineer for Sheffield Corporation in Syracuse, New York.

LT. COL. JOHN R. MULLADY, '49, is director of launch vehicle subsystems with the Air Force Systems Command's Space Systems Division at Los Angeles.

MALCOLM M. BLISS, '50, is a systems analyst for Bethlehem Steel Company, Lebanon, Pennsylvania. He lives in Myerstown.

WESLEY E. GERHARDT, '50, is branch manager for the Martin Fireproofing Corporation in Syracuse, New York.

BERNARD W. HOYT, '50, is a professor at Western New England College, Springfield, Massachusetts. His home is in Wilbraham.

F. C. KARLSON, '50, is sales manager of the Eastern Region for Federal Pacific Electric Company. He is located in Middletown, New Jersey.

ROBERT H. MENZ, '50, is senior project engineer for Dunham-Bush, Inc. in West Hartford, Connecticut.

ROLAND R. RUCCI, '50, is a project engineer for Pratt & Whitney Aircraft in West Palm Beach, Florida. His home is in Riviera Beach.

DAVID A. WINER, '50, is vice president of Ametek, Inc., New York City. His home is in Doylestown, Pennsylvania.

PHILIP R. WOODFORD, '50, is product manager for aircraft of Lord Corporation, Erie, Pennsylvania.

ALBERT M. CHAMMAH, '51, is a research scientist at the Mental Health Research Institute at the University of Michigan, Ann Arbor.

WILLIAM F. HOYT, '51, is a member of the technical staff at Bell Telephone Laboratories' Kwajalein Field Station, Kwajalein, Marshall Islands.



## FALL 1965

ALBERT MACKAY, '51, is a senior mechanical engineer for Creole Petroleum Corporation in Caracas, Venezuela.

AMBROSE E. SMITH, '51, is an engineer at Wright-Patterson AFB, Ohio. He lives in Kettering.

KARL SOLOMON, '51, is assistant senior engineer at Bendix Corporation's Eclipse Pioneer Division, Teterboro, New Jersey. He lives in Clifton.

WALTER C. BLANCHETT, '52, is a senior project engineer for Western Union Telegraph Company of New York City. He lives in Fanwood, New Jersey.

HENRY C. GAUTHIER, '52, is employed by the U.S. Fidelity & Guaranty Company, Worcester, Massachusetts.

ROBERT HANDLEWICH, '52, is a project engineer for Pratt & Whitney Division of United Aircraft. He lives in Bristol, Connecticut.

HOWARD W. WILLOUGHBY, '52, is assistant director of aviation at the Kansas City, Missouri Municipal Airport.

JACK E. DOUGLAS, '54, is an engineer for General Electric in Syracuse. He lives in East Syracuse, New York.

WILLIAM PEIL, '55, is a consultant for General Electric. He lives in North Syracuse, New York.

MICHAEL P. RANALLI, '55, is a project engineer for Niagara Mohawk Power Corporation in Syracuse, New York.

PAUL F. RIDDER, '55, is senior industrial engineer for the Special Metals Corporation, New Hartford, New York.

JOSEPH W. VERZINO, '55, is a research engineer at the Syracuse University Research Corporation.

RICHARD WEINBERGER, '55, is owner of Mart Weinberger Hardware, Rochester, New York. His home is in Penfield.

DONALD C. HUTCHINS, '56, is a senior civil engineer for the New York State Department of Public Works in Syracuse.

GEORGE L. LUTHER, '56, is a manufacturing engineer for Eastman Kodak Company in Rochester, New York.

ROBERT J. WALLIS, '56, is a design engineer for General Electric. He lives in East Syracuse, New York.

JOSEPH F. FRAGNITO, '57, is a research engineer (radio propagation) at the Syracuse University Research Corporation.

CLAY S. HARDER, '57, is a structural engineer for Eckerlin & Klepper in Syracuse. He lives in North Syracuse, New York.

RICHARD MANWARING, '57, is an engineer for Oldsmobile in Lansing, Michigan. His home is in East Lansing.

PHILIP G. SCHULS, '59, is a project engineer for General Electric in Syracuse, New York.

ROBERT L. RAICHLEN, '59, is a senior associate engineer for IBM in Poughkeepsie, New York. He lives in Wappinger Falls.

ARTHUR A. WALDER, JR., '59, is an engineer at the Syracuse University Research Corporation.

WILLIAM B. HYDE, '60, is a systems administrative engineer for Sylvania Electronics Systems in Williamsville, New York.

ROBERT E. GARDINER, '62, is a research engineer for Syracuse University.

CRAIG SMITH, '64, is a graduate research assistant for SUNY at Buffalo. He did summer work for the Laboratory of Sensory Communication at Syracuse University.

## ARKANSAS

A. B. HUBBARD, '28, is a research engineer for Rotor Research Corporation, Woodstock, New York.

T. TONY SPITZBERG, '28, is a chartered life underwriter representing Equitable Life Assurance Society. He lives in Tyler, Texas. Brother Spitzberg was employed by the New York Telephone Company from 1928 to 1940.

THEODORE E. PETER, '29, is retired and living in Vicksburg, Mississippi.

AUSTIN B. SMITH, '30, is chief of the construction branch of the Mississippi River Commission at Vicksburg, Mississippi.

KERMIT H. POTTS, '31, is southern sales manager for Natco Corporation. He is located in Birmingham, Alabama.

JAMES H. NELSON, '32, is chief of the Geomagnetism Division of the U.S. Coast & Geodetic Survey, Washington, D. C. His home is in Arlington, Virginia.

HASKELL G. WILSON, '32, is associate technical director at the Naval Ordnance Test Station, China Lake, California.

C. R. MCCAULEY, '33, is chief engineer for Disle Plastics Manufacturing Company, New Orleans, Louisiana.

LUCIEN L. FOWLER, '35, is owner and manager of National Laundry Cleaners, Kennett, Missouri.

WAYNE C. MOODY, '35, is materials and purchasing coordinator for Sunray DX Oil Company in Oklahoma City. He lives in Norman, Oklahoma.

## THE GEAR OF THETA TAU

CLAUDE H. DYER, '36, is owner of Dyer Construction Company in Tulsa, Oklahoma.

WILLIAM H. MAPES, '36, is industrial sales manager for Oklahoma Gas & Electric Company in Oklahoma City.

R. R. MILNER, '38, is president of Precision Tool Company and executive vice president of Pace Corporation in Memphis, Tennessee.

CAPT. JOHN B. RANDOLPH, '41, is in the Development Division of the office of the chief of Naval Operations. He was previously commanding officer of the U.S.S. *Albat* (AKA-54), Norfolk, Virginia. Brother Randolph lives in Alexandria, Virginia.

L. O. GREGORY, '43, is in sales for Pal Equipment Company of Jacksonville, Florida.

ROBERT H. KUHLMAN, '44, is district engineer for the Portland Cement Association, New Orleans. He lives in Metairie, Louisiana.

CHARLES F. KENT, '46, is vice president of John E. Mahaffey & Associates, Inc., Fayetteville, Arkansas.

W. AUSTIN BOLLEN, JR., '47, is technical superintendent for Monsanto Company in El Dorado, Arkansas.

J. H. GREENHAW, '47, is a senior engineer for IBM in Owego, New York. He lives in Vestal.

GEORGE E. DOWLING, '47, is manager of engineering for Stanley Brown, Architect, in Little Rock, Arkansas.

HODGE J. VINEYARD, '47, is a design engineer for General Electric in Erie, Pennsylvania.

H. B. GILMER, '48, is New England Regional Credit Center manager for Sears, Roebuck and Company in Boston. His home is in Wellesley Hills, Massachusetts.

JOHN N. STRANGE, '48, is chief of the Engineering Research Branch for the U.S. Army Engineer Waterways Experiment Station in Vicksburg, Mississippi.

C. J. BURLINSON, '49, is production manager for the Texas Gas Exploration Corporation in Houston, Texas.

GEORGE R. CARSON, '49, is an electrical engineer for Arkansas Power & Light Company in Pine Bluff, Arkansas.

JOE GILLESPIE, '49, is plant manager for Monsanto in El Dorado, Arkansas.

W. WILLIAM GRAHAM, JR., '49, is a consulting engineer in Little Rock, Arkansas.

ROBERT D. McCALLUM, '49, is working as customer service studies engineer for Pacific Telephone's Los Angeles Central Area. His group coordinates systems plans for complex communication require-

ments of major customers. Brother McCallum lives in South Pasadena with his wife, daughter, and two sons.

BRECK H. ESTES, '50, is an electrical engineer for McDonald Aircraft in St. Louis. He lives in Florissant, Missouri.

RAYMOND BRANTON, '51, has his own architectural firm in Little Rock, Arkansas. He lives in North Little Rock.

CHARLES D. BROWN, '51, is field project manager for the Construction Division of du Pont's Engineering Department in Antioch, California. His home is in Concord.

O. C. NORTH, '51, is department head of Union Carbide Corporation's Olefins Division. He lives in South Charleston, West Virginia.

ROY W. ROBERTS, JR., '51, is manager of the Microwave Magnetics Branch of Melabs, Palo Alto, California. He lives in Sunnyvale.

CORLEY P. SENTARD, '51, is a staff engineer for Humble Oil & Refining Company in Baton Rouge, Louisiana.

MAJOR JAMES F. KOONCE, '52, is a graduate student in computer science at Texas A&M University under Air Force sponsorship.

E. S. SORREY, '52, is self employed in Eagle Pass, Texas.

PAUL A. WATSON, '52, is manager of the Personnel Subsystems and Training Ground Systems Group for Hughes Aircraft Company in Fullerton, California. He lives in Costa Mesa.

T. L. BEELER, '53, is a project engineer for General Electric Company in Utica, New York. His home is in New Hartford, New York.

JAMES H. SMITH, '53, is a sales engineer for Schlumberger Well Surveying Corporation. He lives in Metairie, Louisiana.

W. A. TOWNSEND, '53, is an instrumentation planning engineer for Pan American World Airways. His residence is in Melbourne, Florida.

HENRY K. UPCHURCH, '53, is assistant secretary of Manhattan Construction Company in Fort Smith, Arkansas.

JAMES G. BONNED, JR., '54, is a planning engineer for Teletype Corporation of Little Rock, Arkansas.

FRANK W. CARL, '54, is a supervisor for Unidyamics in Goodyear, Arizona. He lives in Glendale.

ROY R. ROBIN, '54, is president of Roy R. Robin Assoc. Inc. in Heber Springs, Springdale, and Harrison, Arkansas. His home is in Heber Springs.

JIM ALFORD, '57, is manager engineer of the North

## FALL 1965

Little Rock Sewer Department, North Little Rock, Arkansas.

JOSEPH L. SHELTON, '57, is personnel manager for International Optical Company, Dallas. He lives in Irving, Texas.

T. G. TACKETT, JR., '57, is an engineer for production and process with Henders Boiler and Tank Company, Memphis, Tennessee.

PALMER TERRELL, '57, has been appointed a Tau Beta Pi-Ford Fellow. He is working for his doctorate at the University of Texas.

DR. GLEN SELP, '58, is an assistant professor of industrial engineering at Texas A&M University, College Station, Texas.

JAMES C. CARPENTER, '59, is employed by IBM in Jefferson City, Missouri.

J. D. CHASE, '59, is a research engineer for Celanese Chemical Company in Corpus Christi, Texas.

JAMES M. HUBBARD, '59, is manager of engineering for silicon transistors with Texas Instruments, Inc. in Dallas. He lives in Richardson, Texas.

DONALD L. MEHLBURGER, '59, is a consultant/design engineer with Mehlburger Engineers in Little Rock, Arkansas.

WILLIAM W. PERDUE, '59, is a technical supervisor for Monsanto Company in Columbia, Tennessee.

KENT E. SHREEVE, '59, is a project engineer at Humble Oil's Baton Rouge Chemical Plant.

LEE FLETCHER, '60, has resigned his commission as a first lieutenant in the Air Force to take the position of corporate reliability engineer for Hewlett-Packard Company in Palo Alto, California. He lives in San Jose.

JAMES D. GATTIN, '60, is a data processing sales representative for IBM Corporation in Joplin, Missouri.

RALPH J. STIEFVATER, '60, is an engineer for Bracy Development Company, Inc. in North Little Rock, Arkansas.

CHARLES F. LONG, '63, is working toward his Ph.D. under a NASA Fellowship at Case Institute of Technology, Cleveland, Ohio.

G. W. SORRELLS, JR., '63, is employed as an engineer for Humble Oil & Refining Company's Baytown, Texas Chemical Plant. He received his master's degree in chemical engineering from Oklahoma University in 1964. Brother Sorrells married the former Caryl Stephens of Marion, Arkansas in June 1964, and they are the parents of a son, G. W. III, born in May 1965.

LT. WILLIAM E. MILLER, '64, has graduated from flight training school at Laredo AFB, Texas. He

was assigned to Charleston AFB, South Carolina for flying duty with MATS.

MICHAEL E. ZALESKI, '64, is a process engineer for Celanese Chemical Company in Bay City, Texas.

## PURDUE

DR. ALBERT R. SPALDING, Hon., head of the Department of Freshman Engineering, was elected by student vote as one of seven "most appreciated" teachers at Purdue.

H. W. ARDUSER, '31, is president of Arlun Supply Company, Tulsa, Oklahoma.

WILFORD J. ROBINSON, '31, is general superintendent of the Generating Stations Division of Potomac Electric Power Company, Washington, D. C. He lives in Arlington, Virginia.

RAYMOND E. HANNING, '33, is superintendent of plicofilm production for Goodyear Tire and Rubber Company's St. Marys Plant in Ohio.

BERT F. WARDELL, '38, is chief estimator for Allegheny Industrial Electrical Company, Inc. of Pittsburgh, Pennsylvania.

HARRY A. WEGLIENSKI, '42, is manager of transportation products sales for Montreal Locomotive Works Ltd., Montreal, Quebec, Canada. He is married and has a nine-year-old daughter.

C. H. TREAT, '53, is a graduate student at the University of New Mexico in Albuquerque.

JAMES L. WALSMITH, '53, is foundry superintendent for Frank Foundries Corporation in Dunkirk, Indiana.

LT. JAMES H. ANDREWS, '62, has been decorated with the U.S. Air Force Airman's Medal at Bunker Hill AFB, Indiana for heroism involving the voluntary risk of life. He entered an aircraft crash area at Bunker Hill despite burning fuel and wreckage, and succeeded in removing an injured air crew member to safety. Brother Andrews is an aircraft maintenance officer in a SAC unit at Bunker Hill.

RICHARD BERGMAN, '63, is a mechanical engineer at Collins Radio Company, Cedar Rapids, Iowa. He is the father of Jeffrey David, born September 24, 1964.

JOHN R. CARLSON, '63, received his M.S. in industrial administration at Purdue in August 1965. He is now an engineer-scientist doing coordination of test activities (Saturn program) at the Douglas Space Systems Center, Huntington Beach, California.

PETER A. LYNCH, '63, is an application engineer for Cooper-Bessemer Corporation in Mount Vernon, Ohio.

SYAN HOOLEY, '64, is an engineering trainee for the Cooper-Bessemer Corporation at Mount Vernon, Ohio.

## THE GEAR OF THETA TAU

CHARLES N. QUINN, '65, is an engineer—thermodynamics for General Electric in Valley Forge, Pennsylvania. He lives in King of Prussia, Pennsylvania.

### ARIZONA

ROY M. GOAR, '30, is an electrical engineer with Haza Engineering Company, Chicago, Illinois.

FRANK M. CLINTON, '34, is chief project engineer for the Metropolitan Water District of Southern California in Los Angeles. He accepted the position after 31 years of government service with the Bureau of Reclamation. Brother Clinton makes his home in Santa Monica.

H. P. CARSON, '40, is general manager for the Kent-Moore Corporation, Warren, Michigan. He lives in Royal Oak.

ROBERT W. ALEYTON, '42, is a mining methods research engineer for the U.S. Bureau of Mines in Spokane, Washington.

ROBERT H. EPLEY, '42, is a cost analyst at the Center for Naval Analyses, Arlington, Virginia. His home is in Springfield, Virginia.

WILLIAM L. JOHNSON, '42, is general manager, estimator, and civil engineer for the Dan Caputo Company, San Jose, California.

E. H. BABOGLIATTI, '42, is a power engineer for plant engineering with General Electric Company in Erie, Pennsylvania.

RALPH V. BAMERIO, '43, is chief industrial engineer for Inspiration Copper. He lives in Globe, Arizona.

RICHARD L. BRITTAIN, '43, is vice president for mining of the Atlas Minerals Division of Atlas Corporation in Salt Lake City, Utah.

JOHN W. F. DULLER, '43, is a professor at the University of Texas in Austin.

A. MAXWELL JONES, JR., '43, is sales manager for the Hard Manufacturing Company in Ridgeway, Ontario, Canada.

GEORGE A. KOMADINA, '43, has been promoted to assistant resident manager of Pima Mining Company, Tucson, Arizona. He was formerly mill superintendent. Recently Brother Komadina has been the owner's representative covering the design and construction of an expansion in which the plant will treat 18,000 tons per day.

RICHARD W. PORTER, '44, is principal of an elementary school in Santa Rosa, California.

ORVEL B. JONES, '45, is a project engineer for General Electric Company at Vandenberg AFB, California. His home is in Santa Barbara.

R. W. ALBRICH, '47, is a district geophysicist for Motol Oil Company in Roswell, New Mexico.

FIELD CURRY, '47, is a transportation engineer for Westinghouse Corporation's Research and Development Center in Pittsburgh, Pennsylvania.

FRED A. FOYLE, '47, is a metallurgical engineer for Chase Brass and Copper, Waterbury, Connecticut. He lives in Bethlehem, Connecticut.

MAURICE L. MALICK, '47, is resident engineer for John Carollo Engineers of Phoenix and El Paso. He lives in El Paso, Texas.

DAVID E. CREIGHTON, JR., '48, has been promoted to chief of the Planning and Reports Division in the Bureau of Reclamation's Phoenix Development office. Since June 1961 he had been project engineer and coordinator for the Central Arizona Project studies. He was also involved in the Pacific Southwest Water Plan formulation. Brother Creighton makes his home in Scottsdale.

ROBERT G. MASCHING, '48, is a research specialist for Lockheed Missiles and Space Company, Sunnyvale, California. He lives in Palo Alto.

ROBERT E. MILLIGAN, '48, is an agent for the State Farm Insurance Companies. He is located in Prescott, Arizona.

ROBERT C. MILLS, '48, is a sales engineer for the Capitol Foundry Division of Midland Ross Corporation, Phoenix, Arizona.

J. ROBERT SHULL, '48, is a project engineer for AirResearch Manufacturing Company, Phoenix, Arizona. He lives in Scottsdale.

EDWARD C. WOOD, '48, is manager of the Geophysics Department at the Stanford Research Institute. His home is in Portola Valley, California.

ROBERT C. HALL, '49, is director of project development for Spink Engineering Company in Sacramento, California.

JAMES G. HARDY, '49, is area supervisor for U.S. Borax and Chemical Corporation in Boron, California.

WILLIAM A. JOHNSON, '49, is regional engineer for Amco Steel Corporation. He lives in Walnut Creek, California.

C. F. STANLEY, '49, is mill superintendent for Kerr McGee Oil Industries, Inc. in Grants, New Mexico.

JOHN Q. A. WICKHAM, '49, is a group engineer with General Dynamics/Convair in San Diego. He lives in La Mesa, California.

CARL W. APPELIN, '50, is a mining engineer for the U.S. Atomic Energy Commission in Grand Junction, Colorado.

A. E. HEMERBAUGH, '50, is chief engineer for Phelps Dodge Corporation in Bisbee, Arizona. His home is in Warren.

# FALL 1965

**HERRBERT H. HOTCHKISS**, '50, is an engineering specialist for Martin-Marietta Corporation in Baltimore, Maryland.

**MEDRELL J. LEMNAH**, '50, is senior resident engineer for the Arizona Highway Department in Tucson.

**DALE L. THORNBURG**, '50, is supervisor of mechanical projects with Arizona Public Service in Phoenix.

**EDWARD N. TONGERSEN**, '50, is chief pit engineer for Phelps Dodge Corporation in Bisbee, Arizona.

**ROBERT O. WENZEL**, '50, is president of Naturita Supply Company, Inc. in Farmington, New Mexico.

**JAMES R. WILLIAMS**, '50, is a consulting engineer; his firm is Williams & Associates, Tempe, Arizona. His home is in Phoenix.

**DONALD E. WOLACK**, '50, is a supervisory engineer for civil engineering at the Salt River Project, Phoenix, Arizona. He lives in Scottsdale.

**HARRY B. DIERKER**, '51, is manager of operations analysis for ARO, Inc. at Arnold Air Force Station, Tennessee. His home is in Manchester.

**B. C. LANSING**, '51, is a mine superintendent for Molycopt in Questa, New Mexico. His home address is El Prado, New Mexico.

**JIM A. LITTELL**, '51, is assistant pit mechanical foreman for Phelps Dodge Corporation in Ajo, Arizona.

**NELSON SEVERINGHAUSE, JR.**, '51, is vice president of the Georgia Marble Company, Tate, Georgia.

**PHILLIP T. WEBB**, '51, is an engineer for Goodyear Aerospace Corporation, Litchfield, Park, Arizona. He lives in Phoenix.

**CHARLES O. DIEFFENDORF**, '52, is a partner in Arizona Dust & Spray, Inc., Coolidge, Arizona. The firm does aerial application of insecticides and defoliants.

**WILLIAM D. LOVELESS**, '52, is an engineer for Shell Oil Company in New York City. He lives in Oradell, New Jersey.

**JACK L. BAYER**, '53, is owner of Bayer Industries, Tucson, Arizona.

**JOHN M. JOHNSON**, '53, is manager of system tests of full scale launch vehicles for Aerospace Corporation, San Bernardino, California.

**MELVIN M. MONTGOMERY**, '53, is a senior design engineer for General Dynamics/Convair, San Diego, California.

**RICHARD L. MUSTO**, '53, is a mechanical engineer for Combustion Engineering, Inc. in Chicago, Illinois.

**ROBERT D. NORDBYSTRON**, '53, is chief engineer of Crescent Engineering and Research, El Monte, California. He lives in Anaheim.

**ROBERT H. DAVIS**, '54, is a sales engineer for General Electric Company in Boston. He lives in Pembroke, Massachusetts.

**CHARLES H. HAUSENFLECK**, '54, is with the U.S. Air Force at MacDill AFB, Florida. He lives in Tampa.

**PAUL D. MACA**, '54, is vice president of Sommer & Mac Glass Machinery Company, Chicago. He lives in Western Springs, Illinois.

**THOMAS W. MCCURRIN**, '54, is a member of the technical staff of Hughes Aircraft Company in Tucson, Arizona.

**ERNEST G. BETRUM, JR.**, '54, is a member of the technical staff for Hughes Aircraft Company in Tucson, Arizona.

**DONALD D. SHIPLEY**, '54, is owner and mechanical engineer of Thermo-Power Consultants & Engineers in Tucson, Arizona.

**LEONARD ANDERSON**, '55, is a partner and structural engineer of W. T. Hamlyn & Associates in Phoenix, Arizona.

**J. RICHARD ANGLAM**, '55, is area manager of Johns-Manville Sales Corporation. He is located in Danville, California.

**JOHN BEAM**, '55, is vice president and a principal in the firm of MW Inc. Wolverton-Beam-Haller-Spaltner, Kirchoff. He lives in Indianapolis, Indiana.

**RICHARD A. CHRISTIANSEN**, '55, is project manager for IBM in Rochester, Minnesota.

**WILLIAM T. CORRIN**, '55, is an electrical engineer for Corbin-Sykes Electric, Phoenix, Arizona.

**R. G. GUTHRIE**, '55, is a project engineer for Mountain States Telephone Company in Phoenix, Arizona.

**ROBERT F. KELLY**, '55, is an engineer section manager with Philco WDL, Palo Alto, California. He lives in Menlo Park.

**JOSEPH T. KRUEGER**, '55, is assistant superintendent of the Agua Fria Steam Plant of the Salt River Project. He is located in Phoenix, Arizona.

**JOHN C. TYDERBERG**, '55, is senior development engineer for Battelle Northwest Laboratories in Richland, Washington.

**LOUIS P. BENKUCY**, '56, is sales manager for Western Frontier Machinery Company, Phoenix, Arizona.

**STUART A. ENFIELD**, '56, is a senior biomedical research engineer for Technology Incorporated in Dayton, Ohio.

## THE GEAR OF THETA TAU

WILLIAM S. FRANKLIN, '56, is a logic design engineer for Electromec, Santa Clara, California. His home is in Saratoga.

JOHN D. GARDNER, '56, is vice president for planning of Howe Sound Aluminum, Lancaster, Pennsylvania.

NEIL D. GRAHAM, '56, is a project engineer for the U.S. Air Force at McClellan AFB, California. He lives in Citrus Heights.

GEORGE R. LESLIE, JR., '56, is a civil engineer with the U.S. Army Corps of Engineers, Albuquerque District.

JOSEPH P. McBRIDE, '56, is an aerospace engineer for Douglas Aircraft Company at Vandenberg AFB, California. His home is in Santa Barbara.

JOHN P. McLAIN, '56, is an associate mechanical engineer at New Mexico Institute of Mining and Technology, Socorro.

FRED B. JONES, '57, is a staff engineer for IBM in San Jose, California.

ROWAN J. PETERS, '57, is assistant laboratory engineer for the Arizona Highway Department in Phoenix.

HUMBERTO R. SOLANO, '57, is a bridge design engineer for the Arizona State Highway Department in Phoenix.

ROBERT R. CONRAD, '58, is a senior experimental engineer with Pratt & Whitney Aircraft in East Hartford, Connecticut. His home is in Rockville, Connecticut.

NICOLAAS G. JOHANNESMA, '58, is general manager of Central States Concrete Pipe. He is located in Novato, California.

JOHN C. BALLA, '59, is a geologist for Bear Creek Mining Company, Tucson, Arizona.

J. P. LENNON, '59, is a mechanical engineer for Sandia Corporation, Livermore, California.

HOWARD W. MILLER, JR., '59, is manager of Wild Horse Ranch Club, Tucson, Arizona.

DAVID A. PRINCE, '59, is a senior design engineer for Martin-Marietta Corporation, Denver, Colorado. He lives in Littleton.

ROBERT W. RUTY, '59, is a project engineer for Holmes & Narver, Inc., Atomic Test Support Organization of Las Vegas, Nevada. He is presently assigned to Project Dribble, which is conducting underground nuclear detonations in Tatum Salt Dome near Hattiesburg, Mississippi.

RON F. SHUCK, '59, is a plant engineer for Bagdad Copper Corporation, Bagdad, Arizona.

JAMES W. SIMMS, '59, is an engineer for Arizona Fire Rating Bureau, Phoenix, Arizona.

JOHN T. STANLEY, '59, is an engineer for General Electric Company in Phoenix, Arizona.

RICHARD B. WILLIAMS, '59, is a consulting engineer in Yuma, Arizona.

MILTON HARDINCK, '60, is a quality control engineer for Westinghouse Electric in Sunnyvale, California. He lives in Mountain View.

RALPH HEFFELMAN, JR., '60, is a member of the technical staff of Hughes Aircraft Company, El Segundo, California. He lives in Inglewood.

THOMAS A. JONESON, '60, is a manufacturing engineer for General Electric Company's Computer Department in Phoenix, Arizona.

FRED R. SMITH, III, '60, is a systems test engineer for Lockheed Missiles and Space Company at Vandenberg AFB, California. His home is in Lompoc.

FRANK R. SOLANO, '60, is an aerospace engineer (flight systems) at the Los Angeles Space Systems Division of NASA's Lewis Research Center, Cleveland, Ohio. He lives in Manhattan Beach, California.

H. W. MITCHELL, '61, is an instructor for General Electric Company at the Paradise Valley Training Facility. He lives in Phoenix, Arizona.

RONALD C. WILLIAMS, '61, is a senior project supervisor of the Arizona Highway Department in Kingman.

JAMES E. FORTSMAN, '64, has joined the newly formed Central Engineering Department of Monsanto Chemical Company in St. Louis, Missouri.

HANS C. JENSEN, '64, is employed by the California Highway Department in Los Angeles. He did graduate work at Texas A&M.

DUNCAN M. McINTOSH, '65, is a Tau Beta Pi-Honeywell Fellow doing graduate work at the University of Arizona.

## MONTANA MINES

DR. ALBERT W. SCHLEGHTEN, '37, head of the Department of Metallurgical Engineering at the Colorado School of Mines, was awarded the degree of engineer of metallurgy *honoris causa* by Montana School of Mines at the June commencement.

B. R. TARRANT, '37, is manager of Ingersoll-Rand Company in Seattle. He lives in Kirkland, Washington.

JOSEPH W. PICKARD, '41, is sales manager of Ingersoll-Rand Philippines, Inc. in Manila.

EDGAR A. SCHOLZ, '41, is manager of exploration for Placer Development Limited, Vancouver, British Columbia.

C. A. BARKELL, '43, is division geologist for Shell Oil Company in Los Angeles. He was formerly in Seattle, Washington.

## FALL 1965

JOHN A. ALLEY, '44, is a special research chemist for Anaconda Company. He lives in Butte, Montana.

GUNTAV STOLZ, JR., Hon., '50, is head of the Department of Petroleum Engineering at Montana Mines.

DR. M. C. FUERSTENAU, '55, associate professor of metallurgical engineering at Colorado School of Mines, spoke at the Flotation Symposium sponsored by the International Minerals and Chemical Corporation in Florida. He also served as chairman of a session at the annual meeting of the Rocky Mountain Section of the American Society for Engineering Education.

ARTHUR E. MORRIS, '56, is assistant professor of metallurgical engineering at the University of Missouri at Rolla. He did graduate work at Pennsylvania State University.

GAY D. KRAVIEK, '61, is employed as a secondary recovery and reservoir engineer by Western Operations, Inc. of Standard Oil Company of California. He is married to the former Marie Sullivan of Butte, Montana.

### SOUTH DAKOTA MINES

LUDLOW G. ANDERSON, '24, is a mining engineer with the U. S. Department of Interior's Bureau of Mines. He is located in Phoenix, Arizona.

BURTON F. BEILER, '32, is a mechanical engineer for the Treasury Department, U.S. Coast Guard. He lives in Baltimore, Maryland.

NORL A. GAGSTETTER, '34, is assistant vice president of Northwestern Bell Telephone Company, Fargo, North Dakota.

JAMES FORCHTNER, '35, has been elected president of the Minnesota Federation of Engineering Societies.

JOSEPH C. SPENCER, SR., '35, is an engineer for the Boeing Company. He is assigned to the Saturn V Program in Huntsville, Alabama.

FRANCIS E. MURPHY, '36, is a trench owner and manager at Hermosa, South Dakota. He is married and has four daughters.

EARL R. ROSENOW, '36, is a metallurgist for U.S. Steel Corporation, Chicago, Illinois.

FRANK J. BOHAC, '37, is a consulting engineer in South Sioux City, Nebraska.

JOHN J. DOWWIN, '37, is a sales engineer for Barnard & Leas in Cedar Rapids, Iowa.

W. C. WHITHAM, '37, is division engineer for the Milwaukee Railroad in Deer Lodge, Montana.

HAROLD C. HORVET, '40, is a sales engineer for Dooly & Company, Portland, Oregon.

JAMES C. NORMAN, '40, is a project engineer for the Boeing Company in Seattle. He lives in Bellevue, Washington.

J. C. SMITH, '40, is a supervisor of performance and mission analysis for the Wright Aeronautical Division of Curtiss Wright Corporation in Woodridge, New Jersey. He lives in Upper Saddle River.

PAUL A. DRISKEY, '41, is chief geologist for Richard S. Anderson, independent oil operator in Midland, Texas.

JAMES R. GOLDSMITH, '41, is a metallurgist for Molybdenum Corporation of America. He is located in Bridgeville, Pennsylvania.

DONALD E. MCGARVIE, '42, is district engineer for Betz Laboratories Inc. in Philadelphia. He lives in Emmaus, Pennsylvania.

BLAIR L. MOLANDER, '43, is associate department manager for TRW/Systems in Redondo Beach, California. He lives in Downey.

JOSEPH J. ROWETT, '43, is superintendent of quality assurance for Hercules Powder Company, Magna, Utah. He lives in Salt Lake City.

ARLEN E. SWANSON, '43, is president of Carter-Day Company in Minneapolis, Minnesota.

D. C. WINBURN, '43, is an assistant group leader at Los Alamos Scientific Laboratory in New Mexico.

GORDON R. INGWERSEN, '44, is senior material engineer for Honeywell, Inc. in Minneapolis, Minnesota.

MERNE R. JUDSON, '44, is owner and operator of Judsons Hobbies & Crafts in Denver, Colorado.

ROBERT L. KULPACA, '44, is plant superintendent for National Lead Company in Laredo, Texas.

CARROLL C. JACOBSON, '45, is deputy director of the Office of Military Instruction, Department of Tactics, for the U.S. Corps of Cadets, West Point, New York.

MARVIN HECK, '48, is a structural engineer for Gage Brothers in Sioux Falls, South Dakota. He has served as president of the South Dakota Society of Professional Engineers, and is a national director of the National Society of Professional Engineers.

ROBERT S. JONES, '48, is assistant plant engineer for American Smelting & Refining Company in Corpus Christi, Texas.

EDWARD F. JACOBSON, JR., '49, is manager of the Utah Division of Homestake Mining Company. He is located in Moab, Utah.

WAYNE L. FLUMMER, '49, is owner of Waynes Service, Belle Fourche, South Dakota.

ALBERT D. SCHMIDT, '49, is president of North-

## THE GEAR OF THETA TAU

western Public Service Company, Huron, South Dakota.

ERNEST F. SCHMIDT, '49, is a development engineer for Honeywell, Inc. in Minneapolis, Minnesota.

NICKOLAS SCHMITT, '49, is an electrical design and production engineer for General Electric Company in Schenectady, New York. He lives in Scotia.

ALVA L. DOUGAL, '50, is a civil engineer for Hensington, Durham and Richardson, Inc., Dallas, Texas. He lives in Plano.

KENNETH H. HAMMILL, '50, is a senior engineer for Vitro Engineering Company, Richland, Washington.

F. J. MAJERUS, '50, is a supervisory engineer for logistics with North American Aviation in Columbus, Ohio. His home is in Reynoldsburg.

HIRSH S. MAKREDS, '50, is district manager for Prepak Concrete Company in Minneapolis, Minnesota. He lives in St. Paul.

CHARLES W. MEYERS, '50, is executive vice president of Miner and Miner, Consulting Engineers, Inc. in Greeley, Colorado.

STEPHEN J. BARICH, '51, is a design engineer for Westinghouse Electric Corporation in Sharon, Pennsylvania. He lives in Sharpville.

KEITH D. GRAMAM, '51, is a senior mathematician for the S & R Research Department of Honeywell, Inc. in Minneapolis. He lives in Osseo, Minnesota.

CARL W. TELUS, '51, is a section supervisor for built-in ranges with Westinghouse Electric Corporation in Mansfield, Ohio.

DONALD N. ANDERSON, '52, is a planning engineer for Southern California Edison Company in Los Angeles. He lives in Arcadia, California.

GEORGE L. PARSONS, '52, is district operations representative for Texaco Inc. in St. Paul. He lives in Minneapolis, Minnesota.

F. RUSSELL PETERSEN, '52, is a physicist for the National Bureau of Standards in Boulder, Colorado.

A. DUANE GENZLINGER, '53, is project engineer for John Morrell & Company in Sioux Falls, South Dakota.

T. J. HEIL, '55, is a mechanical engineer for Cummins & Barnard Inc. in Ann Arbor, Michigan.

KENNETH L. LOTTER, '55, is a metallurgist for Revere Copper, Brass & Aluminum in Baltimore. His home is in Pasadena, Maryland.

DAVID PADGETT, '56, is assistant city engineer in Pierre, South Dakota.

RODGER A. ROTTER, '56, is a research engineer at

Jet Propulsion Laboratories, Pasadena, California. He lives in Glendale.

ROGER A. STAFF, '56, is a design engineer for Caterpillar Tractor Company in Peoria, Illinois.

WILLIAM TUCKER, '56, is an attorney for the J. M. Huber Corporation, Denver, Colorado.

BERNARD J. BUELL, '57, is employed by Martin-Orlando in Orlando, Florida.

FRED W. EHRLMAN, '58, completed in June 1965 a two-year master's program at the Western Electric Company's Engineering Research Center at Princeton, New Jersey. He is now at the Omaha, Nebraska works.

ROBERT L. NAUMAN, '58, is general engineer at the U.S. Naval Missile Center, Port Mugu, California. He lives in Ventura.

ROBERT L. PECHA, '58, is an engineer in the Standards Section of Chicago Bridge & Iron. His home is in Lombard, Illinois.

A. L. RIEMENSCHNEIDER, '59, is an instructor of electrical engineering at the University of Wyoming in Laramie.

JOSEPH C. SPENCER, JR., '59, is a senior engineer for Martin-Orlando in Orlando, Florida.

DAVID J. LINDERMAN, '60, plans to complete his education this fall.

GARY A. RADFORD, '60, is an engineer for Reynolds Electrical & Engineering Company, Albuquerque, New Mexico.

ALFRED J. KURTENBACH, '61, is a graduate student at Purdue University.

GEORGE D. O'CLOCK, JR., '62, is a graduate research and teaching assistant at South Dakota School of Mines. During the summer he worked for Hughes Aircraft Company in Culver City, California, as a member of the technical staff.

RICHARD C. LUNDIN, '64, is vice president of Lundin Construction Company, Inc. in Mankato, Minnesota. He graduated from Mankato State College in 1964. Brother Lundin is married and has a daughter, Karl.

DENNIS V. PRELL, '64, is a mechanical engineer for the Federal Cartridge Corporation in Anoka, Minnesota.

ARTHUR L. HUNT, '65, is a technical representative for E. I. du Pont de Nemours & Company's Plastics Department, Chestnut Run, in Wilmington, Delaware.

THOMAS H. PARKER, '65, is a junior mine engineer for International Minerals & Chemical Corporation, Carlsbad, New Mexico.

RONALD UTTECHT, '65, is a graduate student at South Dakota School of Mines.



## GEORGE WASHINGTON

JOBIN S. SHERIDY, '37, has been appointed a secretary on special assignment in the Home Office Engineering Department of Aetna Casualty, Hartford, Connecticut. He was formerly an agent in Bridgeton, New Jersey.

W. STANLEY MACHEN, '44, is owner of a land surveying firm in Hyattsville, Maryland.

GEORGE A. KILPATRICK, '45, is a civil engineer (airports) for the Federal Aviation Agency, Washington, D. C. He returned in March from a 5½-year overseas assignment as consulting airport engineer for Latin American countries. He now lives in Arlington, Virginia.

GEORGE PISA, '47, is a physicist with the Naval Research Laboratory in Washington, D. C. He lives in Arlington, Virginia.

MATTHEW S. POLK, '47, is engineering section supervisor for Philco Corporation, Willow Grove, Pennsylvania. He lives in Springfield, Pennsylvania.

VICTOR L. REDDLE, '49, is a physical scientist for the U. S. government in Washington, D. C. He is a registered professional engineer in the District of Columbia. Brother Reddle lives in McLean, Virginia.

ROBERT S. BURNS, '53, is a structural engineer for the Division of Hospital and Medical Facilities of the Public Health Service in Washington, D. C. His home is in Falls Church, Virginia.

JOSEPH E. BELL, '56, is supervisory highway research engineer for the Department of Highways and Traffic of the District of Columbia. He was with the National Crushed Stone Association until August 1964. Brother Bell lives in Alexandria, Virginia with his wife and two daughters.

HARLAN J. ORLKE, '56, is an electronic engineer with Harry Diamond Labs, Washington, D. C.

DANIEL A. DREYFUS, '57, is a civil engineer (coordinator) with the U.S. Department of the Interior, Washington, D. C. He lives in Alexandria, Virginia.

JOHN R. MANNING, '57, is an attorney and engineer in private practice in Washington, D. C. His home is in Arlington, Virginia.

JOHN D. O'NEALE, '59, is a mechanical engineer for Atlantic Research Corporation in Alexandria, Virginia. He lives in Burke, Virginia.

GORDON E. DAVISON, '65, is a reliability/maintainability engineer for ELCOM, a division of Avdiger, Inc. in Alexandria, Virginia. He lives in Woodbridge.

## LOUISVILLE

L. STEELBACH KRAFT, '53, is a senior development

engineer for the Goodyear Tire and Rubber Company. He lives in Cuyahoga Falls, Ohio.

REV. JAMES B. GUFFEY, '62, was ordained into the Christian ministry in June 1965 after his graduation from Eden Theological Seminary, St. Louis, Missouri. He is now serving at Salem United Church of Christ, just outside Evansville, Indiana.

LT. STEPHEN E. HALE, '65, is assigned to Seymour-Johnson AFB, North Carolina, as electronic data processing officer.

## WAYNE STATE

PETER S. DAVIS, '49, is a senior design engineer for Ford Motor Company in Dearborn, Michigan. He lives in Huntington Woods.

ROBERT W. BROWN, '51, is general manager of Waynesboro Construction Company, Waynesboro, Pennsylvania.

JAMES D. OWENS, JR., '51, is a section leader for Jones-Dabney (Devco-Reynolds Company) in Detroit.

RICHARD LYNCH, '53, married Miss Lyn Sepanek on October 2, 1965.

DR. CHARLES E. WALES, '53, completed requirements for his Ph.D. in chemical engineering at Purdue University, and will remain on the staff there.

FRED E. GHANNAM, '56, is a research chemical engineer for Ford Motor Company in Dearborn, Michigan. He lives in Livonia.

JOSEPH S. LICHT, '58, is a senior metallurgical engineer for the Tubular Products Division of Babcock & Wilcox Company, Beaver Falls, Pennsylvania.

HARLAN F. WORMEN, '59, is a product test engineer for Ford Motor Company in Dearborn, Michigan. His home is in Huntington Woods.

RUSSELL C. HOMER, '61, is a design analyst for Continental Aviation and Engineering Corporation in Detroit. He lives in Warren, Michigan.

J. MARVIN MOLEKOWAN, '61, is a structural engineer for the Veterans Administration in Washington, D. C. He lives in Alexandria, Virginia.

CHRISTOPHER R. BETWEE, '64, is a steel buyer for Stat Tool and Die Works in Detroit.

ROBERT E. KNOLL, '64, is an assistant engineer for the Detroit Edison Company in Detroit.

## UTAH STATE

DR. D. F. PETERSON, dean of the College of Engineering at Utah State, has taken a one year leave of absence to serve as technical assistant for water resources to Dr. Donald F. Hornig, science advisor to President Johnson. Brother Peterson will

## THE GEAR OF THETA TAU

serve as chairman of the interagency coordinating committee on water resources research and also advise the science advisor on water resources matters.

RALPH A. KANGAS, '62, is a design engineer (civil and structural) for Donald L. Hansen, P.E., in Tacoma, Washington. His home is in Des Moines, Washington.

ROBERT W. WRIGHT, '62, is an associate tool engineer for the Boeing Company in Seattle, Washington.

### HOUSTON

MORRIS S. MEDLEY, JR., '61, is a process engineer for Goodyear Tire and Rubber Company in Beaumont, Texas.

WAYNE F. SMALL, '62, is assistant superintendent of a phosphoric acid plant for Olin Chemical Company, Pasadena, Texas. He lives in Houston.

THOMAS W. FONVILLE, '64, is serving in the Chemical Corps for the U.S. Army in Dugway, Utah.

OTTO C. SCHELLBERG, '65, is a mechanical engineer at NASA's Manned Spacecraft Center in Houston.

### UNIVERSITY OF WASHINGTON

JAMES C. CHESNUTT, '64, is an engineer in the Advanced Materials Research and Development Laboratory of Pratt and Whitney Aircraft in North Haven, Connecticut.

HUGO W. SCHIMMELBUNCH, '64, is an associate engineer for the Boeing Company in Renton, Washington. He lives in Seattle.

RICHARD D. SEABERG, '64, is a design engineer for the Hytzer Company. His home is in Vancouver, Washington.

JOHN D. WINTER, '64, is a graduate student in electrical engineering at the University of Washington.

## Contributors to Theta Tau Progress

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

### UNRESTRICTED GIFT DONORS

Arthur R. Albohn, Theta '43  
Edward I. Andersen, Alpha '17  
Asel W. Anderson, Jr., Zeta '39  
Phillip A. Anderson, Kappa '32  
Philip Andrews, Epsilon '33  
Raymond Q. Armstrong, Sigma '28  
William S. Badt, Epsilon '36  
J. H. Baird, Delta '32  
Russell W. Bartholomew, Sigma '46  
T. L. Beeler, Upsilon '53  
William Isaac Bigger, Jr., Rho '56  
Walter C. Blanchett, Tau '32  
Roy H. Boyd, Iota '45  
George B. Brimhall, Alpha '33  
Robert W. Brown, Epsilon Beta '51  
Theodore Cecil Brown, Rho '31  
Donald G. Brunner, Alpha '24  
Frank E. Bunce, Mu '41  
William P. Burpee, Jr., Gamma '53  
H. Edward Cable, Delta '29  
Bernie Carbond, Mu '50  
Edmond Carley, Theta '35  
Arthur F. Cervenska, Theta '41  
Frank P. Converse, Jr., Delta '30  
G. F. Coope, Theta '14  
Jack W. Cottrell, Tau '41  
Douglas A. Craven, Rho '43  
J. H. Crenshaw, Upsilon '47  
W. E. Crockett, Iota '41  
Edward P. Davidson, Rho '41  
William B. Davis, Jr., Epsilon '51  
Gordon E. Davidson, Gamma Beta '65  
Louis De Goes, Gamma '41  
James O'Hara Denney, Nu '48

Gerald J. Dittberner, Alpha '64  
Charles H. Dodge, Kappa '24  
James H. Dodge, Nu '31  
John E. Dodge, Gamma Beta '54  
Thomas W. Donville, Zeta '60  
Paul A. Drickey, Omega '41  
Edwin B. Dunn, Pi '39  
Raymond E. Dunster, Beta '50  
George A. DuToit, Jr., Alpha '10  
Jack B. Edmonds, Mu '42  
Paul Enlacott, Zeta '23  
Richard C. Erdman, Sigma '59  
Garth F. Fort, Pi '64  
John O. Geissbuhler, Delta '35  
Fred E. Ghanam, Epsilon Beta '56  
Vernon R. Gilson, Lambda '47  
George Perry Greene, Rho '44  
William G. Hall, Delta '34  
Kenneth H. Hamanill, Omega '50  
Henry Z. Hardaway, Omicron '40  
George L. Hawley, Zeta '23  
John E. Jacobs, Nu '28  
W. Maxey Jarman, Eta '25  
John William Jenkins, Lambda '44  
George W. Jevne, Alpha '10  
Harlan Warner Johnson, Alpha '47  
O. K. Johnson, Zeta '26  
A. Maxwell Jones, Jr., Chi '43  
John W. Jordan, Sigma '30  
Richard R. Kapfer, Iota '61  
James W. Kaster, Omicron '57  
Rowland King, Beta '16  
William S. Kirchhoff, Iota '64  
Alan Kissock, Gamma '12  
Ernest Klepfko, Beta '41  
N. F. Koepel, Beta '15  
James F. Koone, Upsilon '52  
Robert L. Kulpsca, Omega '44  
Vincent D. Lauria, Mu '47

Stanley Learned, Zeta '24  
 Jesse S. LeGrand, Iota '38  
 Joseph H. Lesner, Theta '42  
 William M. Lewis, Founder, Gamma '09  
 H. S. Loeffler, Alpha '15  
 W. Paul Lynch, Mu '60  
 Charles M. McCormack, Theta '36  
 Harry A. McCollough, Nu '35  
 D. A. McGee, Zeta '26  
 W. Stanley Machen, Gamma Beta '44  
 John R. Manning, Gamma Beta '57  
 Benjamin G. Marcin, Nu '43  
 John G. Marshall, Gamma '31  
 Milo Matter, Nu '25  
 Paul F. Maurer, Nu '22  
 Henry C. Mayo, Gamma Beta '60  
 Rene J. Mechin, Theta '19  
 Paul Menster, Delta '48  
 William E. Micho, Beta '58  
 George W. Mitchell, Gamma '23  
 Ralph M. Moon, Beta '15  
 Walter Mueller, Jr., Iota '63  
 Herman E. Muller, Nu '39  
 Harry W. Nagel, Theta '54  
 David R. Nelson, Epsilon '35  
 C. Richard Newpher, Delta '37  
 George Daniel O'Clock, Jr., Omega '62  
 Harlan J. Oelke, Gamma Beta '56  
 John D. O'Neale, Gamma Beta '59  
 James W. Orton, Zeta '17  
 Elton W. Pace, Lambda '30  
 Gerald F. Pauley, Kappa '27  
 Joseph T. Pearson, Jr., Rho '56  
 Kenneth I. Pendleton, Iota '60  
 Glen M. Personius, Alpha '57  
 Theodore E. Peter, Upsilon '29  
 George Pida, Gamma Beta '47  
 Joe L. Pिकास, Rho '33  
 Matthew S. Polk, Gamma Beta '47  
 Robert E. Pope, Zeta '52  
 John C. Prior, Sigma '06  
 Maurice N. Quade, Kappa '25

James L. Reynolds, Alpha '58  
 Edgar R. Robinson, Sigma '29  
 Henry R. Rosenblum, Nu '44  
 Norbert F. Ruszai, Alpha '38  
 James P. Rybak, Delta '63  
 T. W. Sayle, Delta '54  
 Charles M. Schmidt, Omicron '60  
 Edgar A. Scholz, Psi '41  
 Alvin E. Schubert, Kappa '30  
 Richard D. Seaberg, Theta Beta '64  
 David A. Sealer, Sigma '62  
 Marvin G. Sedam, Alpha '33  
 David R. Shaw, Mu '63  
 Donald C. Smith, Alpha '18  
 Russell L. Sorenson, Alpha '27  
 K. A. Spooner, Beta '50  
 George F. Strable, Beta-Gamma '28  
 Thomas C. Stresser, Kappa '26  
 B. R. Tarrant, Psi '37  
 Burton W. Thompson, Alpha '35  
 T. P. Turchan, Gamma '35  
 Hodge J. Vineyard, Upsilon '47  
 James L. Walumith, Phi '53  
 Walter Hall Wheeler, Alpha '06  
 Cloyd M. Wiles, Epsilon '23  
 Vertrees Yonng, Eta '16  
 Ben F. Zwick, Gamma '29

#### FOUNDERS' MEMORIAL FUND DONORS

Thomas F. Brastow, Nu '27  
 George M. Collins, Epsilon '11  
 Harry A. Larson, Alpha '39  
 Richard R. McGee, Zeta '21  
 Gerald F. Pauley, Kappa '27  
 Francis M. Rich, Kappa '25  
 Edgar A. Scholz, Psi '41  
 Ernest Joseph Schrader, Xi '21  
 As a memorial honoring his brother,  
 Founder Erich J. Schrader  
 John N. Strange, Upsilon '48  
 Harry A. Weglinski, Phi '42

## 25 and 50 Years Ago in Theta Tau

### 25 YEARS AGO

Sigma Chapter was placed on "The Fraternity Achievement Roll" at Ohio State University.

Zeta Chapter acquired a permanent home at 1602 Louisiana Street.

Upsilon Chapter moved into a new house.

The Rho Scribe wrote: "It seems that the world affairs are about as bad as they could be except for the fact that we are not directly in them."

(From the Fall 1940 GEAR)

### 50 YEARS AGO

Erich J. Schrader was Grand Regent.

Beta Chapter sadly announced that the annual "Paul Mackinaw" show had been canceled because the faculty said it interfered with school.

Eta Chapter was looking forward to the relocation of MIT at a site in Cambridge on the Charles River.

Delta Chapter was busy drafting Bylaws.

(From the 1915 GEAR)

### Looking for a New Position?

*Engineering Career Market* is a publication which lists positions and opportunities available. If interested write to P.O. Box 540, Canton, Illinois 61520. It's free to individuals.



## Chapter News

*The chapters were given an opportunity to write on their rushing programs in the chapter letters this time. This is the sixth of a series of chapter letters in which specific topics were chosen. They were asked to devote some coverage to the mechanics and local practices, the techniques that have been particularly successful, and the problems they face, such as competition from dormitories, social fraternities, etc.*

*Some generalities can be drawn from the letters as a group. First of all, one gets the feeling that the individual is still "in," and the more personal attention a potential pledge is given, the more likely that both he and the chapter will have made a wise choice if he is extended a bid to pledge. Second, it is obvious that this vital function of the Fraternity is essentially a local practice. The chapter stands or falls by its own efforts, and that mystical body students refer to as "National" does little to influence any chapter's rush program. The national officers, of course, sometimes must help the faltering, but each chapter is expected to provide its own good method of self-perpetuation.*

*Last, it should be noted that several chapters chose to write about activities other than rush. The inclusion of other activities, especially Founders' Day celebrations, was encouraged by the Editor. Some, it seems, got so wrapped up in these that they forgot to mention rush at all! Oh well, there are some interesting ones there anyway.*

—WEE

### ALPHA CHAPTER



Alpha Chapter is in the midst of one of its most intensive rushing periods because the University of Minnesota has cut its engineering curriculum from a five-year to a four-year program. Thus Alpha Chapter will lose over one-half of its

active members by the end of spring semester.

Prospective rushers are invited over to the house for Monday night meals by active members. During the evening the actives get acquainted with the rushers. Besides socializing with the rushers on Monday nights, the Chapter has speakers from industry talk about what we as future engineers can expect after graduation. Also, exchanges with many of the nearby nursing schools and sororities are held on these evenings. In these ways we show the rusher what life at Theta Tau is like.

Every rusher must have three successful unanimous votes before he can be asked to pledge. These votes are taken at our Monday night meet-

ings. After three weeks we feel that everyone in the Chapter has had a chance to get acquainted with the prospective member.

This method of rushing has been very successful here at Alpha Chapter. We have maintained a strong active Chapter with a full house for several years.

Founders' Day was celebrated on Thursday, October 14 at the Normandy Motor Hotel in downtown Minneapolis. John Swanberg from the Minnesota Highway Department spoke about highways and freeway construction in Minnesota. With 35 actives and 40 alumni present, Founders' Day was a complete success.

STEVEN SANDNESS  
Corresponding Secretary

### BETA CHAPTER



Theta Tau is a leader in campus affairs at Michigan Technological University. Our rushing program is directed at leaders and potential leaders in Student Council, varsity athletics, and all honor fraternities which are associated with campus affairs. We have found that the only satisfactory method of rushing is by personal invitation.

If a member is acquainted with someone whom he thinks has the qualities to make a good prospective H & T, then the prospect is invited to dinner where the other members of Beta are given a chance to meet him. He is also invited to our pledge parties where the men of Beta who do not live in the house are also given the chance to become acquainted with him. On Saturday afternoon from 1:00 to 5:00 p.m., all the members are assigned work details to aid in the care of the house. If a prospect likes, he may come and help with some of the general chores, after which he joins the members in their evening meal. If he also wishes, he is welcome to come out and study and/or relax playing ping pong and pool, listening to records or enjoying our beautiful view from Anchor Hill.

If the members find that the man is a good prospect, his name is brought up at our weekly Monday evening meetings, where his potential is discussed and a vote is taken. If this vote is unanimous, the prospect is given a bid, which he can either accept or refuse. The choice is left to him after the Chapter has voted to extend the bid.

Our Founders' Day banquet was celebrated on October 16, 1965. The program included speeches given by our alumni on the growth and future plans of Beta. Our guest speaker for the evening was a progressive local businessman who gave a

speech on the potential of the area. The dinner ended with a gathering of alumni and student members.

THOMAS P. LYPKA  
Corresponding Secretary

### GAMMA CHAPTER

No Chapter Letter

### DELTA CHAPTER

No Chapter Letter

### EPSILON CHAPTER

No Chapter Letter

### ZETA CHAPTER

LAWRENCE  
KANSAS

Zeta Chapter's rushing procedure is to personally invite each rushee to the chapter house for dinner and to some chapter social functions. Usually we have rushees at dinner on Wednesday night when we have a guest speaker. The guest speakers this semester have included a history professor, an engineering faculty alumnus, and a local minister.

Our rushing is carried on by our rush committee, headed by the Vice Regent. The committee invites to the house students who have been suggested by various members. The rushees are invited over twice before a vote is taken on them.

We do most of our pledging during the school year, although we do have a fairly extensive summer rush program. We also have participated in the Interfraternity Council rush week for the last seven years. Our main problems are competition with social fraternities and down contract payments. The men we pledge from the dorms usually have to wait until the next semester before they move into the house.

Zeta Chapter recently held its Founders' Day banquet, and eight alumni including Robert E. Pope, Grand Scribe, attended. The guest speaker for the event was Dr. William Bass, professor of anthropology. He gave an enlightening illustrated discussion about how the climate and available resources of each region determine the type of housing of native cultures from the Arctic to the deserts of the Southwest.

Zeta's last social function was a touch football game with the local chapter of Alpha Omicron Pi sorority. There was, however, a special rule stating that all males had to run backward at all times. Upholding the grand tradition of Theta Tau, we lost. It was quite ridiculous at times and quite fun.

KEN NIED  
Corresponding Secretary

### THETA CHAPTER

This year our rushing procedure followed the pattern of a rush smoker, a professional function, a party, a pledge-brother football game, and weekly informal dinners. The smoker, publicized widely in a variety of media, was the first opportunity for prospective

pledges to meet the brothers of Theta Tau and vice versa. All the brothers were required to attend this function to become acquainted with the rushees. Closely following this event was a professional function consisting of a talk on sales engineering by Henry J. Petrie, an alumnus of Theta Chapter. The third event, a date party, will introduce the social side of our Fraternity.

In addition to the special events discussed above, a method of rushing that we have found particularly valuable has been that of getting together once a week on an informal basis for dinner. Not having a chapter house, these dinners are held at a local restaurant. This practice has not only proved valuable for getting acquainted, but has also become a forum for new ideas. Within the near future we also plan to have a pledge-brother football game.

As far as planning is concerned, we have a rush committee and a pledgemaster to suggest and coordinate the events. There are at least three functions before the first bid session.

Rushees are contacted both by general publicity for smokers, etc., and by personal contact from brothers familiar with eligible and desirable students. We have found that the beginning of the spring term is generally the best time to rush, since most students have settled down by this time and there is less competition from social fraternities.

Our local problem is a lack of campus-wide recognition of Theta Tau, since Columbia is a large diversified university.

To celebrate Founders' Day this year, we held a gala party; 40% of the alumni invited were able to attend. In addition to the events mentioned before, plus additional professional lectures, we plan to have a plant visit to a nearby brewery in the late fall. One of the main events for the spring term will be the Theta Tau Third Annual Picnic. Last year we had a very good turnout of alumni, and we expect it to be even better this year.

ROBERT BORNFRIEND  
Corresponding Secretary

### IOTA CHAPTER



The rush program of Iota Chapter consists of smokers and informal get-togethers. It resulted in obtaining 16 worthy pledges.

Iota has an important and far-reaching effect on the campus. The annual Theta Tau school calendar, which covers all of the scholastic, athletic, and social events on campus, was distributed again this fall. This calendar was the product of many long hours of work by the Chapter.

Looking forward to this spring, Iota Chapter hopes to exceed its previous March of Dimes donation and is planning several picnics and barbecues for the brothers.

GEORGE GASPARIKOVIC  
Corresponding Secretary

### LAMBDA CHAPTER

No Chapter Letter



## MU CHAPTER



Mu Chapter doesn't have rush activities at the very beginning of the school term. We wait until the frantic first few weeks of school have passed before starting our rush program. We feel that by waiting until everyone is settled down at school, we are in a better position to decide which people we would like to reach in our rush program. This plan also enables the prospective pledges to make a more accurate evaluation of the national organization of our Fraternity and of Mu Chapter.

The first phase of our rush program consists of a smoker to which we invite all persons who our members think will contribute to the Chapter and will be interested in joining Theta Tau. All active members attend this smoker and this is a good means of letting our members meet the rushees and vice versa.

The next step is to invite each rushee who shows interest in Theta Tau to the chapter house individually and tell him more about Theta Tau and answer any questions he might have. This provides our members with a second chance to meet the rushees.

Next we vote on each rushee at our regular chapter meeting and extend bids to those who are selected.

This program has proved quite fruitful at Mu Chapter, and I remember as a rushee that it was pleasant and straightforward without being unduly time consuming.

As is our custom at Mu Chapter, we had a Dutch banquet to celebrate Founders' Day. This year's banquet was a real success. We are blessed with several alumni on the faculty at the University of Alabama, and almost all attended the banquet as guests of the Chapter. We were privileged to have Professor William K. Bey, Grand Regent of Theta Tau and professor in our Aerospace Engineering Department, speak on the history of our Fraternity and the lives of our Founders.

Several of our members also attended the celebration held by the North Alabama Alumni Club in Huntsville, Alabama.

BILL MARLAR  
Corresponding Secretary

## XI CHAPTER



Xi Chapter has developed a set of rushing procedures that helped the Chapter to grow at a geometric rate and maintain a large membership in the past few years. Xi has a rush signup period on the first three days of each semester at Wisconsin. Posters throughout the engineering campus announce Theta Tau's rush. Three booths in lobbies of the

engineering buildings are manned in shifts by the actives, who meet prospective rushees, explain Theta Tau, and invite interested engineers to the first rush smoker on Thursday night. Prospectives who have signed up are then phoned by the membership committee and reminded of the smoker, and rides are offered if needed.

The first smoker lets the rushees meet the actives and gives them an introduction to Theta Tau. On the weekend a stag party is held for all actives and rushees. This semester on the following weekend a date picnic was held, open also to the rushees. Then the next Monday a second smoker was held, after which the seriously interested rushees were extended bids to pledge Theta Tau.

Traditionally there had been only one social function and seven days between the two rush smokers. The extended rush period this semester was one of the reasons for a larger than usual number of rushees who ended up as pledges (twelve). Xi also experienced some increased competition this semester from the three competing fraternities on campus, all of which have houses.

Over the summer the Housing Corporation of Xi Chapter was formally incorporated, and the corporation is now investigating the possibility of renting a house next year.

Also over the summer, the foundation for a Madison-Milwaukee area alumni club was laid by Brothers Sherman Ansell and Dwight Zeck.

The Founders' Day celebration, which was held on October 18, was indeed a time for celebration at Xi Chapter. That afternoon had seen the Chapter welcome honorary initiate William C. Boyle into its midst. The ceremony was witnessed by Northern Regional Director James L. Reynolds. Also that same afternoon, the Theta Tau Alumni Club of Wisconsin drafted a letter of request for authorization. The Founders' Day banquet that evening had more alumni of Xi in attendance than any previous year. After a totally satisfying meal, architect James T. Potter gave his exceptional color slide program on "The Changing Face of America."

Last spring the Theta Tau exhibit in the 1965 Triennial Engineering Exposition earned the overall first place award. "Delay in the Fourth Dimension" was also the subject of a special one-half hour telecast by WHA-TV, Madison. The video tape will be saved and shown in three years during the next exhibition.

Xi has a new Chapter Adviser, Dr. John Mitchell, associate professor of mechanical engineering. Having known Dr. Mitchell for the past year as an honorary member, Xi actives are glad to have his enthusiastic help in maintaining a strong and stable Chapter of Theta Tau at Wisconsin.

Dr. Gerald A. Rohlich, after years of service to the Fraternity as Xi's Chapter Adviser, resigned to assume a less official role in the Fraternity. Dr. Rohlich has recently been appointed associate dean of the U.W. Graduate School and consultant to the United Nations in sanitary engineering. Our hopes for his success in these new endeavors and our thanks for his dedication to Xi Chapter go out to Dr. Rohlich.

JAMES C. WINKLER  
Corresponding Secretary



Tau brothers escort the "1965 Queen of Engineers" contestants to a coffee.

XI's Engineering Exposition first place awards and radio-controlled moon vehicle on the model lunar landscape.



XI's Engineering Exposition exhibit general chairman James Beckwith holding the first place trophy and ribbon and the model moon vehicle in front of the main control panel.



Tau Brother Louis Gross makes the presentation to the "1964 Queen of Engineers."

## THE GEAR OF THETA TAU

### OMICRON CHAPTER



Omicron Chapter has always had a successful rush program. Last year, however, our rush practices and procedures were updated to make our Fraternity more attractive to prospective candidates.

Omicron initially selects its rushee candidates from the names submitted by present members as well as from outstanding members of the sophomore and junior classes. These prospective pledges are then invited to the Chapter early in the fall for a general orientation about Theta Tau.

At this general orientation the officers give brief sketches about Theta Tau and the various activities of the members of Theta Tau. Films are also shown to the rushees about past informal initiations, which always prove to be quite interesting to both rushees and actives. This is followed by a coffee hour, which enables rushees and actives to become better acquainted with each other. The prospective rushees at this time are invited to participate in a football game with the actives as well as to attend one of our fall social parties. The attendance at these events by the prospective rushees, is one means we use in judging them as to their interest in activities and Theta Tau. The next step is a formal vote on the rushees by the members.

The overall rushing program is supervised by the pledge trainer and assistant pledge trainer, and proceeds according to a plan set up two semesters ago by a rush study committee.

Along with rushing activities, the Omicron brothers were kept quite busy participating in Homecoming events. We supervised the Engineers' Open House, which many of our wives assisted in by being hostesses and serving refreshments, supervised the construction of the Homecoming Monument, and had a most enjoyable postgame party.

BURTON C. GEARHEART  
Corresponding Secretary

### PI CHAPTER



The rush period at Pi Chapter is traditionally held in the spring. Our rush consists of three smokers or parties. Blanket invitations are sent out for the first two parties, and personal invitations compiled from the rush lists are sent out for the third.

Rush is handled by a committee which secures the location for the parties and the refreshments, sends out the invitations, compiles the rush list, and fills out the bids.

Bids are returned a few days after they are sent out, and a short ceremony and party follow.

Later in the spring, a pledge banquet is planned to which are invited all brothers, pledges, faculty members, and alumni. This banquet is a fine time to improve faculty-student relationships as well as to honor the new pledges.

BRIAN J. BOLAND  
Corresponding Secretary

### RHO CHAPTER

No Chapter Letter

### SIGMA CHAPTER



The rushing program at Sigma Chapter is under the direction of a rushing chairman. It is his duty to plan the program and seek the aid of additional members when needed.

As a professional fraternity,

Sigma Chapter does not participate in the formal rush week held by the social fraternities. Instead we hold smokers in our house several times each quarter, and send out invitational letters to students in various engineering classes. We usually concentrate on students with sophomore standing or above during the early part of the school year.

At the smokers we have an open house so that rushees can see our living quarters firsthand. A program of short speeches and skits is presented to give the rushees a better idea of the purpose of Theta Tau.

After this we adjourn to play cards. Throughout the smoker, an active assumes the responsibility of staying with one rushee and meeting him personally. After the smoker, prospective rushees are invited back to the house for dinner the following week. After a rushee has been to the house two times, he is considered for a bid by the actives.

Members of social fraternities rarely find time to take an active part in both a social fraternity and our Fraternity while studying engineering. Therefore, Sigma Chapter does not make it a policy to rush members of other fraternities.

We have found no secret formula for success in our rushing program. However, we have found genuine interest in rushees and hard work to be factors contributing to success.

We planned no formal program for Founders' Day this year, but received cards of best wishes from alumni. An informal stag party was held by members of Sigma Chapter to celebrate Founders' Day.

TOM HEUTERMAN  
Corresponding Secretary

### TAU CHAPTER



Tau Chapter rushing activities usually begin early in the spring or late in the fall semester with an upperclass smoker. This year we are breaking this tradition with an upperclass smoker in early November, followed by an early December rush of freshmen.

During orientation week our rushing speaker addressed the freshmen and transfer students' convocation on "Belonging" and created pandemonium with his humor while at the same time plugging the Engineers' Ball and Theta Tau. Following the convocation the new students received literature on the ball, engineering student groups, and, of course, Theta Tau rushing literature. Sev-



The 1965 Homecoming Monument, entitled "Gateway to Victory," was a 40-foot replica of the St. Louis Archway. The design and construction of the monument was largely supervised and carried out by brothers of Omicron Chapter.



A rush smoker in full swing at Sigma Chapter.

The leaders of Xi's Engineering Exposition exhibit: Dr. John Mitchell, Chapter Adviser; Dave Drueger, orientation chairman; James Beckwith, general chairman; Dr. K. U. Smith, main benefactor; David Lucoff, technical chairman; and Art Mueller, lunar vehicle chairman. Absent: Mike Quirk, lunar landscape chairman.



## THE GEAR OF THETA TAU

eral brothers were available to answer the many questions asked about student activities.

This year's rushing committee consists of three brothers, with the chairman organizing smokers and writing letters. The rushing speaker will make another short speech at the smoker and help arrange details. After a formal pledge ceremony, the pledge trainer takes over to allow the rushing chairman to make plans for another smoker.

The smokers are generally announced by letters which also contain a Theta Tau rushing brochure. It has been found effective to write a personal comment on the letters from some brother the prospective pledge knows. The brothers spend the afternoon at the smoker getting acquainted with the rushees. Following the smoker, obvious poor prospects are eliminated and the best are sent pledge bids with the major personal contact occurring during pledging.

The major competition comes from the social fraternities, but we hope to get a jump this year, since the social fraternities cannot rush freshmen until the second semester.

The 15th Annual Ball is being held on October 30th this year. With this ball so early, we were unable to organize an alumni participation event for Founders' Day. In order to compensate, the local alumni were asked to attend the ball. The brothers themselves had block seating at the Homecoming football game on October 16 with a small gathering afterwards.

GEORGE FOX  
Corresponding Secretary

### UPSILON CHAPTER



Upsilon is on the move again this year. We hope to top last year's long record of achievements by individual members and by the Chapter as a whole. Last year, Theta Taus were found in leadership positions in all professional

engineering societies here at the University of Arkansas. The following Theta Taus are presidents of the respective societies of their professions: Bill Miller, electrical engineering; Ray Owen, chemical engineering; David Laney, mechanical engineering; Tommy Kirk, industrial engineering; Gus Vratsinas, civil engineering; and pledge Henry Roe, agricultural engineering. Roger Kline is president of the Engineering Council. We are also ably represented on the 1964 national champion Arkansas Razorbacks by Randy Stewart. Randy is not only the center for the Razorbacks, but he has a 3.82 out of 4.00 cumulative grade point.

We kicked off our social activities of the year with our Founders' Day banquet on October 16 at the Holiday Inn. Many alumni were in Fayetteville that day to see the Arkansas vs. Texas football game. An open house for all was held.

Our alumni committee has been writing each chapter concerning their methods of soliciting funds from their alumni. Upsilon hopes to build a modern house in the future, and we hope to incorporate some of the better methods of other

chapters to augment our building fund. We ask our alumni to cooperate in any way they may.

KENT BURNETT  
Corresponding Secretary

### PHI CHAPTER



Phi Chapter participates in the university Interfraternity Council rush program. The fall rush season begins the preceding spring with the organization of "Sunday dinners." Each freshman is sent an invitation to dine at one of the 39 houses on campus on a Sunday early in the semester. This phase is primarily concerned with introducing the fraternity way of life to the new freshman.

Shortly after the conclusion of these dinners, the first Rush Convocation is held. At this convocation, the freshmen have the opportunity to sign up for "Block Rush," which is a series of evening dinners and smokers. Each person who signs up is assigned to six fraternities for three dinners and three smokers. These six fraternities are chosen to present to the rushee a spectrum of the different fraternities—large, small, those that specialize, etc.

The next rush event is the second Rush Convocation. Here each of the fraternities has two booths, one acting as an information center and the other as a rush registration booth. The prospective rushee is given all the information about the house at the information booth and is asked to register for a dinner or a smoker at the other booth. This is the first opportunity that a house has to rush for its own benefit instead of the fraternity system in general. This phase, the Sunday dinners, and Block Rush are known as formal rush.

From the end of formal rush (approximately the first week in November) to the start of the second semester there is to be no contact between any non-Greek male freshman or sophomore and any fraternity member. This so-called quiet period is to permit both the fraternities and the rushees to devote their time to studies. Informal rush begins with the advent of the second semester.

The first contact initiated by the house is made at this time. Each fraternity has dinners, smokers, and parties. The formal pledging date set by the IFC is about two weeks after the start of informal rush.

This system is not the best for Phi Chapter. We are a professional fraternity, and there is no consideration given to a house with membership limited to engineering students in the selection of rushees for the Sunday dinners and Block Rush. Being a small house, it is necessary for us to have an extremely efficient rush procedure to enable us to pledge good men. Due to the present rush system, we must plan our rush program so that we present the fraternity system as a whole for more than half of the rush season instead of presenting Theta Tau to engineering students.

Our first effort of the season is to send to all honors engineering freshmen an invitation to attend both the Rush Convocations. We also urge them to sign up to attend one of their dinners at our

house. Once informal rush starts, there are dinners, smokers, bull sessions, rushees studying at the house, and various other functions during these two weeks—something every night.

Toward the end of these two weeks, the pledge class is roughly formed. Our active participation in the rush program ends with the formal pledging ceremonies. But our rush doesn't stop there. Our new pledges are encouraged to bring some of their engineering friends to the house for dinner as part of our continuing rush program.

This year our Founders' Day celebration consisted of a dinner at the house for those Theta Tau on campus. The following week was Homecoming, and our festivities included a banquet for the returning alums. The house activities, finances, and condition were thoroughly discussed. The Homecoming affairs of the campus made for an enjoyable time for all.

CRAIG SCHMEYER  
Corresponding Secretary

## CHI CHAPTER



At Chi Chapter the rushing activities begin immediately after the beginning of each semester. They are organized by a rush committee appointed near the end of each semester. This committee usually sets up a booth in the lobby of the Engineering Building to distribute information, Fraternity pamphlets, and free coffee. Names and addresses of interested men are obtained in this manner. A large number of prospective pledges can be acquired from this activity alone. When this is not the case, special letters are sent to as many eligible men in the college as we can.

The first formal meeting the Chapter has with the rushees is a smoker complete with speaker and refreshments. During this meeting the Regent answers questions that the rushees have about the Fraternity. The next meeting is an informal picnic and sand lot football game in the nearby desert. Then a third open meeting is held for the purpose of answering more questions and so the actives can again meet the rushees. To be considered, rushees must attend two of the three open meetings. After the third meeting they are voted on and the pledge period begins. These meetings take place within a month after the beginning of each semester.

This method has been quite successful for us here at Arizona. We keep our active membership at about 40. These proceedings do not require a large amount of work from any one person, and they give the actives at least two chances to meet each of the rushees personally before he is voted on. The rushees also learn a lot about the Fraternity and the men of this Chapter before they agree to pledge.

L. D. JOHNSON  
Corresponding Secretary

## PSI CHAPTER



Toward the end of the spring semester, Psi Chapter was honored by a visit from Western Regional Director Garn Hatch. Although his stay was brief, many of the Chapter's problems were discussed and plans for the upcoming Western Regional Conference to be held in Salt Lake City in the fall were discussed.

At present Psi Chapter is engaged in planning social activities for the coming semester. A float is being prepared for the Homecoming parade on November 30, and a fall smoker is being planned. Pledge candidates have been selected and the new pledges will be honored at the annual pledge dinner which is held in conjunction with Founders' Day. In early November an initiation is planned at which the largest group of new members to be taken into Psi Chapter at one time will be initiated. It is hoped that the new members will supply the necessary inertia to make this a great year for Montana Tech's Tau Chapter.

Chapter work projects for the fall semester include retiling the Tau lounge floor and designing and building a traveling trophy that is to be taken to the Western Regional Conference. It looks as if Psi Chapter will have a very successful year.

JOHN W. KOCHER  
Corresponding Secretary

## OMEGA CHAPTER



This year, as in the past, the initial contact with the freshman class at S. D. School of Mines & Technology was made at freshman orientation camp. Several of the brothers served as counselors at the camp, and they answered questions about fraternity life and met a great many of the incoming frosh. The Regent of Omega Chapter also gave an informational speech during one of the camp convocations.

After the frosh had a chance to get settled in school, Omega Chapter held an open house to which all frosh were invited. Refreshments were served, and the frosh had a chance to tour the fraternity house and meet many of the actives and pledges.

The next rushing activity was an invitation smoker where the promising freshmen were given personal invitations by the actives. The early part of the evening was spent eating homemade pizza, drinking pop, and becoming better acquainted. The entertainment part of the program consisted of humorous talks followed by a short speech from the Regent. The remainder of the evening was spent playing cards, with the winners receiving prizes purchased by the Chapter. Omega Chapter usually holds three or four smokers of this type during the first semester.

Shortly after the second semester begins and as soon as a substantial number of prospective pledges have been voted on and passed, a formal pledging smoker is held. This smoker is much like the first semester smokers, but in the course of the evening's activities, a formal invitation to

## THE GEAR OF THETA TAU

pledge is extended, and those who wish to do so may pledge at this time.

Last spring Omega Chapter held one of its most successful spring formals, with all the actives and pledges and most of the faculty members in attendance. Gill's Sun Inn in Rapid City was the setting, and a live band provided the dance music. A Queen was chosen to cap the festivities.

This fall, Founders' Day was observed by a banquet which was held at the Esquire Dinner Club. Prime rib steaks were served, and the main after-dinner address was presented by Dr. Harvey Fraser, who is the dean of engineering at this school. His talk explained the various civic and professional obligations of an engineer, and was very interesting.

LARRY BARBER  
Corresponding Secretary

### GAMMA BETA CHAPTER

No Chapter Letter

### DELTA BETA CHAPTER

No Chapter Letter

### EPSILON BETA CHAPTER



At Wayne State University, rush is a very hectic three weeks at the beginning of every fall and spring quarter. Because we are members of the Interfraternity Council and rush in direct competition with the social fraternities, our rush practices are closely governed by university regulations.

Rush starts with Fraternity Day. On this day each fraternity places a display in the student center. We station men at these displays throughout the day to answer questions about rush and fraternity life.

Each campus fraternity is allowed to have two rush parties. Attendance at the first is open to all eligible students and is encouraged by mass mailing, posters, and advertisements in the campus newspaper. Attendance at the second rush is by written invitation after a vote of the Chapter. Both rush parties include refreshments, entertainment, and talks by chapter officers and the chapter adviser. After the second party a vote is taken on each man, and invitations to pledge are sent to the school for distribution.

Epsilon Beta's rush activities are controlled by a rush committee which is headed by the Vice Regent. Personal contact with prospectives is the key to successful rush in terms of obtaining men with high qualifications as pledges.

During the middle of all of this frantic rush activity we held our annual Founders' Day dinner dance in conjunction with the Detroit Alumni Association. After a wonderful dinner at the Hillcrest Country Club, awards were presented to the brothers for their accomplishments during the year. These awards represent such diversified achievements as outstanding member, goldbrick, best scholar, and pitchfork. The 70 couples attending

then enjoyed dancing to a four-piece orchestra to end a memorable evening.

ANDY NOLAN  
Corresponding Secretary

### ZETA BETA CHAPTER

No Chapter Letter

### ETA BETA CHAPTER



Eta Beta Chapter has taken great strides in its growth this last year. Chapter events included the Founders' Day banquet, Chapter anniversary, rushing, a barbecue for foreign students, active participation in intramural sports, date parties, and sorority-fraternity parties.

Fall rush is one of the most important activities of the year. We began our rush with a casual get-together of the rushees and actives. At this party the rushee is given the opportunity to meet the actives and to find out what the Fraternity can offer him and what he can contribute to the Fraternity if he is invited to pledge.

We feel that it is important to emphasize the fact that engineering is not all work and no play. Therefore, we invite the rushee to a second function which is an after-the-game party. This was the climax to an evening spent in the Dome Stadium. The third rush party is what is known as a field day. Here we meet with the rushees and play football, baseball, and tennis. This serves as a double purpose function, to show the rushee a good time and to let the actives become much better acquainted with the rushees on a very informal basis.

The final rush party is held for those whom we wish to pledge. This party is a stag hamburger fry at the Eta Beta house. Here the rushee has the opportunity to ask about his duties as a pledge, and the actives have an opportunity to see if his interest in Theta Tau befits a potential pledge.

Besides the rushing activities, Eta Beta Chapter had several get-togethers with its alumni. First was the Chapter anniversary held at the Eta Beta house last May. The anniversary celebration was accented with a barbecue on the side lawn, followed by an evening of dancing. The Founders' Day banquet was also a big success.

The most talked-about alumni-active function was the annual Eta Beta Chapter "Toilet Bowl" football game. Here the actives pitted their strength against the hardened experience of the alumni. This yearly event always ends with good fun and sore muscles.

The Eta Beta Chapter is looking forward with anticipation to two specific functions this year. First is the Southern Regional Conference to be held in Houston during December. The second function is one that met with great success last year, which is our annual barbecue for foreign students. The brothers of Eta Beta Chapter invite the foreign engineering students at the U. of H. to come to the barbecue so that we may become better acquainted with them.

The brothers of Eta Beta look to the coming year with eager anticipation.

WENDELL BROUGH  
Corresponding Secretary

### THETA BETA CHAPTER



Theta Beta continued its activities from spring of last year into the summer with a two-day water skiing party. The party was held the weekend of July 4th at a nearby lake.

This year we began by formulating a quarter program of business meetings, lectures from local as well as national business firms, field trips, and social events. The lectures and field trips include areas other than the pure engineering fields.

Our first social event was the Founders' Day banquet. We were most fortunate in having Founder Elwin L. Vinal present. He spoke and presented a dynamic personality plus a quick mind that greatly impressed those of us who had not met him before.

The Chapter has purchased olive green blazers, and will obtain an official coat of arms for the blazers through the Central Office.

ALAN R. WOLFE  
Corresponding Secretary

### IOTA BETA CHAPTER



Rushing at Iota Beta Chapter can be described easily in one word—informal. We have found that an informal gathering of members and rushees serves a twofold purpose. The members can easily see what the rushee is like, and the rushee can be more easily introduced to the aspects of

fraternal life in Theta Tau. These informal gatherings, lasting through a period of about three weeks, include at least one date party, a smoker, or sometimes a stag party. With this personal and informal contact of member and rushee, the true purpose of rushing is fulfilled.

A lot of work, though, is done before the actual rushing is begun. A rush committee headed by the Vice Regent is set up every year to acquire the names of prospective rushees. This duty is usually accomplished in two ways. If a member knows of a prospective rushee, the member tells the rush committee, which in turn contacts the rushee. Also, the files of all eligible engineers are examined thoroughly by the rush committee. The list of eligible engineers is then narrowed down until a sufficient number of prospective rushees is obtained. These men are then contacted and invited to the various informal gatherings. In this way the engineering student who is well qualified but not personally known by any of the members is also given the chance to rush. Over the past two years, this procedure of pre-rush practices has proven very valuable.

At all the informal gatherings, each member is urged to get acquainted personally with the rushees. The fraternal brotherhood which we always strive for is emphasized during the rush period. We of Iota Beta have found that the best procedure for rushing is a great effort behind the pre-rush work and then the informal and personal gatherings of members and rushees.

In the past years, the Founders' Day celebration has always been a gala affair at Iota Beta Chapter. This year, of course, was no exception. The celebration began with the traditional congratulations and greetings. From then on the members and three alumni who attended spent the rest of the night dancing, talking, and in general enjoying themselves. About midway through the party, the traditional birthday cake was cut and served to all. After polishing off the last bit of cake, the members harmonized into song and the "Theta Tau Song" was, of course, the first rendered. The famous "Engineering Song" of the University of Detroit followed, along with many other good old fraternity songs. More dancing and socializing completed the celebration. As we left the party, we couldn't help but say, "It sure is great to be a member of Theta Tau."

PAUL SAK  
Corresponding Secretary

### KAPPA BETA CHAPTER

Since its birth last fall, Kappa Beta has made every effort to prove that it is worthy of the confidence bestowed on it by the national Fraternity. By so doing, it has provided the members of the Chapter the opportunity to participate in a well-organized, well-rounded program of fraternal activities.

In the fall of 1964 members of the Chapter again served as officials for campus visitors on Engineering Day. Also, as a service project for the College of Engineering, the Chapter sponsored slide rule lessons for freshmen and sophomore students.

In March of 1965 Theta Tau held a spring picnic at Choctaw Lake. Over 40 of Mississippi State's most outstanding freshmen engineering students were invited to the picnic as rushees.

In the 1965-66 school year, Theta Tau will again be well represented on the Engineering Council. In elections held last spring, the office of student president of the College of Engineering was won by Brother Eddie Bowker, and representative officer positions were won by Brothers Dickie Schultz, Mike Geer, and Bobby Webb. The highlight of the social year was our first annual Senior Recognition Banquet held at the close of the spring semester, honoring our graduating seniors.

Plans are now in full swing for a house for Kappa Beta Chapter. We hope that in the not too distant future, as one scans fraternity row at Mississippi State, his eyes will be drawn to the house of Kappa Beta Chapter of Theta Tau—a house that shall be a monument to the past and to the future of engineering, of Theta Tau Fraternity, and of Mississippi State University.

TOMMY HOWARD  
Corresponding Secretary

## THE GEAR OF THETA TAU

### GMI COLONY

As a new organization to both Theta Tau and General Motors Institute, our Colony has concentrated much effort on rushing practices. Since a majority of our members are seniors, the problem has become rather critical this year. Our Rushing Committee tackled it by sending letters to the entire sophomore class, inviting them to attend a coffee and doughnut "smoker" held in the school's executive dining room.

Fifteen members were present at the smoker to greet the prospective candidates and answer questions. A film of research work being conducted at the Electromotive Division of GM (which makes trains) was shown as an example of our professional activities. A member and employee of Electromotive discussed the work going on there.

Excellent participation was obtained. A few members felt that some of the interest observed may have resulted from the fact that the activity was termed a "smoker" and we said we were going to show a film or two. Our Rushing Committee

stubbornly refuses to admit the use of any subliminal advertising, however.

In all, the event interested 17 underclassmen, who were invited to our professional activities dinner the following week and to our annual hayride. Following this, the men were requested to attend a special business meeting at which each candidate was personally interviewed before the entire membership. Finally, the candidates were endorsed by members acquainted with them and were voted on. A pledge class of 13 resulted.

In addition to this program, our Colony set up a display in the College's Scenerama, a fair at which each campus group presents itself to the student body. We featured the Theta Tau slide presentation and a tape recorded dialogue at our booth.

Through the efforts of our Rushing Committee we have apparently solved most of our membership problems for the coming year. We expect to do the same sort of thing next semester.

JOHN MURRAY

B Section President

## Additions to Membership

### ALPHA CHAPTER

- 766 James Emmett Benson, Duluth, Minn.
- 767 Edward Leslie Hemenway, Jr., Duluth, Minnesota
- 768 Charles Arden Van Horssen, Minneapolis, Minnesota
- 769 Charles Edwin Golla, Keewatin, Minn.
- 770 Carl John Hoffstedt, Randall, Minn.
- 771 William Winston Kirkvold, Duluth, Minn.
- 772 Barry Henry Rogich, Hibbing, Minn.
- 773 Carl Thomas Strunk, Rochester, Minn.
- 774 Emmett Arthur Swanson, Jr., Hibbing, Minnesota
- 775 Bruce Marlon Walker, Hibbing, Minn.

### BETA CHAPTER

- 945 Richard Thomas Durnebacke, (Honorary), Houghton, Mich.
- 946 Michael A. Biferno, Grand Rapids, Mich.
- 947 Todd Irving Stewart, Wausabona, Wis.
- 948 William Andrew Thomas, Campinas, Brazil
- 949 Jeffrey Clarke Nuttall, Vicksburg, Mich.
- 950 David John Russett, Iron Mountain, Mich.
- 951 Woodrow Walter Wilson, Jr., Grasse Pointe Park, Mich.
- 952 James Allan Trethewey, Ironwood, Mich.
- 953 Richard Alan Staahl, Littleton, Colo.
- 954 Thomas Paul Lypka, Sault Ste. Marie, Ont.
- 955 James Roy Grigg, Bay City, Mich.
- 956 John David Dick, Tecumseh, Mich.
- 957 Robert Harold Yonker, Grandville, Mich.
- 958 Roger Dean Smith, Houghton, Mich.

### GAMMA CHAPTER

- 1016 George Francis Wood, Cheyenne, Wyo.
- 1017 David Henry Linder, Lakewood, Colo.
- 1018 Edward Clarence Reish, Jr., Lamar, Colo.
- 1019 James Edward Honea, Pittsburg, Calif.
- 1020 John Richard Plavan, Balboa, Calif.
- 1021 Steven Robert Hanson, Butte, Mont.
- 1022 John Howell White, Jr., Decatur, Ga.
- 1023 Harold Eugene Sebastian, Jr., Houston, Texas
- 1024 Eugene Marion Dickenboof, Trinidad, Colo.
- 1025 Ralph Johnson, Jr., Estes Park, Colo.
- 1026 Robert Wyatt Murray, Huntsville, Texas
- 1027 William Robert Wilson, Cheyenne, Wyo.
- 1028 John Douglas Morgan, Tampa, Fla.
- 1029 John Nicholas Teets, Santa Monica, Calif.
- 1030 James Raymond Larsen, Lakewood, Colo.
- 1031 Robert Leroy Dunn, La Junta, Colo.
- 1032 Richard Neal Kemp, Pittsford, N. Y.
- 1033 Phillip William Cloves, Pittsburgh, Pa.
- 1034 Gifford Ellis Massie, Jr., Cozad, Neb.
- 1035 Michael Warren Pepper, Bartlesville, Okla.
- 1036 James Thomas Bernard, Lakewood, Colo.
- 1037 Larry James Hoppe, Sterling, Colo.
- 1038 Robert Grey Christiansen, Golden, Colo.
- 1039 Lloyd Edwin Elkins, Jr., Tulsa, Okla.
- 1040 Ronald Dale Benetti, Pittsburg, Calif.
- 1041 Robert Edward Selwyn, Jr., Haslem, Ky.
- 1042 Alan Leo Liby, Manitou Springs, Colo.
- 1043 Ronald Dean Layton, Golden, Colo.
- 1044 Warren Lee Harrison, Denver, Colo.
- 1045 Wallace Robert Nichols III, Dallas, Texas
- 1046 Robert Dean Morris, Denver, Colo.

# FALL 1965

- 1047 Phil Alan Bowman, Oak Hill, Ohio  
 1048 Rick Benjamin Minter, Greybull, Wyo.  
 1049 James Stewart Robbins, La Crescenta, Calif.  
 1050 Charles Collins Hanebuth, Jr., Golden, Colo.  
 1051 William Tipton Reish, Lamar, Colo.  
 1052 Donald Steven Tipton, Lakewood, Colo.  
 1053 Frederick William Paddock, Jr., Montrose, Colorado  
 1054 Reginald Shi Young Lee, Los Angeles, Calif.  
 1055 Clyde Eugene Morrison, Sterling, Colo.  
 1056 Kenneth Wayne Bott, Denver, Colo.

## DELTA CHAPTER

- 1054 Bruce Mayer Fonoroff, Silver Spring, Md.  
 1055 Larry J. Forney, Seville, Ohio  
 1056 Charles Laurence Gross, Silver Spring, Md.  
 1057 Richard Marvin Myers, Cleveland Heights, Ohio  
 1058 Barry Ronald Pollock, Cleveland Heights, Ohio

## EPSILON CHAPTER

- 864 Gary Clyde Burnham, Watsonville, Calif.  
 865 David Lawrence Kresch, Placentia, Calif.  
 866 Thomas Alva Rinn, Riverside, Calif.

## ZETA CHAPTER

- 679 Ronald Duane Miller, Topeka, Kans.  
 680 Arnold Darryl Bard, Roosevelt, N. J.  
 681 Myrl Raymond Wear, Humesville, Kans.  
 682 Kenneth Francis Nied, Prairie Village, Kans.  
 683 Alan Robert Abell, Leawood, Kans.  
 684 Curtis Wayne Slagell, Harper, Kans.

## THETA CHAPTER

- 683 Stephen Ronald Ames, Tyngsboro, Mass.  
 684 Philip Allen Dix, Mount Vernon, N. Y.  
 685 Edward N. Perlman, Bayside, N. Y.  
 686 David Seader, Bronx, N. Y.  
 687 Allen Stein, Laurelton, N. Y.  
 688 Gregory Nelson Stern, Huntington, N. Y.  
 689 John Frederick Windisch, Houston, Texas  
 690 Ersilio Bruna, White Plains, N. Y.  
 691 Neil Harvey Fenichel, Bronx, N. Y.  
 692 Jeffrey Mark Franklin, Brooklyn, N. Y.  
 693 Robert Glaser, Brooklyn, N. Y.  
 694 Arthur Randolph Hooker, Pelham Manor, N. Y.  
 695 Gary Louis Lilien, Lido Beach, N. Y.  
 696 Frank Anthony Miron, Teaneck, N. J.  
 697 Steven Jay Ross, Forest Hills, N. Y.  
 698 William Sand, Long Beach, N. Y.  
 699 Espi Sanjana, Bombay, India  
 700 Peter John Szabo, Brooklyn, N. Y.  
 701 Alfred Irving Wirtenberg, Bronx, N. Y.

## IOTA CHAPTER

- 1002 John Vincent Andesslich, Zeigler, Ill.  
 1003 Craig Edward Carlson, Evergreen Park, Ill.  
 1004 James Denebrink Chase, Webster Groves, Missouri  
 1005 Ralph Bernard Fluchel, Normandy, Mo.  
 1006 Timothy Michael Handlan, Kirkwood, Mo.  
 1007 Charles Milton Hansen, St. Joseph, Mo.  
 1008 John Howard Henry, Mountain View, Mo.

- 1009 Richard Robert Paul, Gallatin, Mo.  
 1010 Dale Richard Schaeffer, Webster Groves, Missouri  
 1011 David Walter Weinrich, Brentwood, Mo.

## LAMBDA CHAPTER

- 839 Robert Rickard Clemens, Deerfield, Ill.  
 840 Larry Dean Migliaccio, Spanish Fork, Utah  
 841 Eric Sims, Salt Lake City, Utah  
 842 Russell LaMont Smith, Salt Lake City, Utah  
 843 James Nolan Vernon, Vernal, Utah  
 844 Samuel Virgil Whitten, Jr., Salt Lake City, Utah  
 845 Richard Thomas Brown, Flossmoor, Ill.  
 846 Larry Louis Campbell, Ogden, Utah  
 847 Jerry Roy Ellison, Magna, Utah  
 848 William Russell Faris, Idaho Falls, Idaho  
 849 Gary James Garner, Bountiful, Utah  
 850 Frank Joseph Greene, Boise, Idaho  
 851 Gordon B. Hurley, Idaho Falls, Idaho  
 852 Stephen Tochie Matsunra, Kamuela, Hawaii  
 853 John Leo Quick, Salt Lake City, Utah  
 854 Kermit William Reister, Salt Lake City, Utah  
 855 Max Riley Rogers, Springville, Utah  
 856 David Paul Wengert, Idaho Falls, Idaho

## MU CHAPTER

- 849 Jon Ray Sullivan, Tuscaloosa, Ala.  
 850 Carl Wayne Albright, Jr., Tuscaloosa, Ala.  
 851 Thomas Robert Armstrong, Tarrant, Ala.  
 852 Michael Howell Atkinson, Piedmont, Ala.  
 853 Ronald Chesley Brown, Jasper, Ala.  
 854 Leonard George Gibson, Jr., Eight Mile, Alabama  
 855 Charles Jackson Granade, Jr., Grove Hill, Alabama  
 856 Roger Allen Hall, Oxford, Ala.  
 857 Donald Ray Kemp, Huntsville, Ala.  
 858 Kenneth Rowan LaBorde, Huntsville, Ala.  
 859 David Wayne Luff, Sheffield, Ala.  
 860 James Harrison Mullins III, Ardmore, Tenn.  
 861 John Runyan Neergaard, Knoxville, Tenn.  
 862 Reinhard Ludwig Scharnowski, Huntsville, Alabama  
 863 Jon Donald Tromblee, Huntsville, Ala.  
 864 Jerry Edward Wills, Fort Payne, Ala.

## XI CHAPTER

- 276 Gerald Paul Beaumont, Sussex, Wis.  
 277 Dennis Raymond Cooper, Black Earth, Wis.  
 278 Gilbert Cecil Gerdman, Milwaukee, Wis.  
 279 Carleton Frederic Graves, Appleton, Wis.  
 280 Donovan Ervin Greenwood, Reedburg, Wis.  
 281 Douglas Lee Kane, Orfordville, Wis.  
 282 Alfred Walter Loth, Milwaukee, Wis.  
 283 John Allen Niemeyer, Cornell, Wis.  
 284 Thomas Frederick Schuppe, Fond du Lac, Wisconsin  
 285 Peter Steitz, Milwaukee, Wis.  
 286 Curtis Warren Weiss, Wausau, Wis.  
 287 Leonard Paul Wozzella, Stevens Point, Wis.

## RHO CHAPTER

- 705 Daniel Foul Craver, Winston-Salem, N. C.  
 706 Larry Joseph Ferrell, Durham, N. C.

## THE GEAR OF THETA TAU

- 707 Steve Allen Fox, Granite Falls, N. C.  
 708 Charles Elbert Fulton, Walkertown, N. C.  
 709 George Frederick Mamska, Fayetteville, N. C.  
 710 John Douglas Mitchell, Walkertown, N. C.  
 711 David Walter McMillan, West Jefferson, N. C.  
 712 William Anthony Smith, Winston-Salem, N. C.  
 713 Ronald J. Withrow, Charlotte, N. C.

### UPSILON CHAPTER

- 651 Jimmy Howard Akin, Fayetteville, Ark.  
 652 Jeffery Lynn Kennington, Malvern, Ark.  
 653 James Lindsey Walker, Jr., Hot Springs, Arkansas  
 654 Joseph Elkins Klein, Little Rock, Ark.  
 655 Phillip Winfred Small, Hot Springs, Ark.  
 656 James David Cole, Crossett, Ark.  
 657 James William Robbins, Benton, Ark.  
 658 Richard Bailey Wright, DeQueen, Ark.

### PHI CHAPTER

- 395 Paul Michael Doane, Jasper, Ind.  
 396 Timothy Alfred Egnot, LaGrange, Ill.  
 397 Jay David Fischer, Pittsburgh, Pa.  
 398 William Stanley Coza, Gary, Ind.  
 399 David Wayne Kasckert, Whitefish Bay, Wisconsin  
 400 Michael David Mynhier, Kimmell, Ind.  
 401 Joseph Gabor Nagy, Cleveland, Ohio  
 402 Wayne Alan Shuwalter, Speedway, Ind.  
 403 James Michael Walter, Menasha, Wis.  
 404 Kent Alan Williams, LaGrange, Ill.

### CHI CHAPTER

- 686 Jerry Dean Dodson, Walnut Hill, Ill.  
 687 Donald Ray Ellermann, Kingman, Ariz.  
 688 Allan Henry Fusler, Glendale, Ariz.  
 689 Mark Ray Golden, Tucson, Ariz.  
 690 Henry Stewart McKee, Los Angeles, Calif.  
 691 David George Mooberry, Safford, Ariz.

### OMEGA CHAPTER

- 625 James Bernard Clement, Miller, S. D.  
 626 James Bernard Deters, Salem, S. D.  
 627 Lynn David Havlik, Kimball, S. D.  
 628 David Alan Lockmeyer, Middletown, Ohio  
 629 James Allan Lounsbury, Beresford, S. D.  
 630 Steven James Parker, Lodgepole, S. D.  
 631 Robert James Peterson, Gayville, S. D.  
 632 Patrick Donald Quinney, Pierre, S. D.  
 633 John Charles Thayer, Britton, S. D.  
 634 Richard Thomas Troth, Wessington, S. D.  
 635 Brian Edward Tuckelke, Hot Springs, S. D.  
 636 Warren Earl Wintrobe, Sioux Falls, S. D.  
 637 Robert Ray Zimmerchied, Carls, Wyo.  
 638 Charles Edward Stutenroth, Jr. (Alumnus), Middletown, Ohio

### GAMMA BETA CHAPTER

- 475 Matthew Storch DeMaria, Ashton, Md.  
 476 Andrew Stacy Deming, Washington, D. C.

- 477 Robert Ellsworth Dove, Alexandria, Va.  
 478 Youssef Ghadiz, Silver Spring, Md.  
 479 Robert Edward Hurley, Gaithersburg, Md.  
 480 William Lynn Summers, College Park, Md.  
 481 James Lee Wong, Washington, D. C.  
 482 John Edward Flowers, Frederick, Md.  
 483 Ricardo José Nieto, Villa Vicecucio, Colombia, S. A.

### DELTA BETA CHAPTER

- 391 James Edward Allison, Louisville, Ky.  
 392 Gary Arnold Kurtz, Louisville, Ky.  
 393 William Joseph Paulus, Jr., Louisville, Ky.  
 394 Gerald Henry Prudom, Pittsford, N. Y.  
 395 Joel Stewart Schwartz, Louisville, Ky.  
 396 Frank Michael Stauble, Louisville, Ky.  
 397 William Coleman Thompson III, Louisville, Kentucky  
 398 John Michael Spensner, Louisville, Ky.

### EPSILON BETA CHAPTER

- 180 Gary Michael Kolody, Southfield, Mich.  
 181 Robert Russell Walkunas, Detroit, Mich.

### THETA BETA CHAPTER

- 33 Thomas Reed Draeger, Chelan, Wash.  
 34 Frederick Arthur Emerson, Littleton, Colo.  
 35 Robert Charles Hanks, Seattle, Wash.  
 36 Wayne Allen Nelson, Seattle, Wash.  
 37 Gene Newton Seibert, Shelton, Wash.

### IOTA BETA CHAPTER

- 58 Victor Alexander Krause, Flushing, Mich.  
 59 James Joseph Bennett, Cincinnati, Ohio  
 60 James Edward Dietz, Lakewood, Ohio  
 61 Dale William Doleish, Parma, Ohio  
 62 Michael Patrick Aloisious Dugan, Roselle, N. J.  
 63 Robert John Gardner, Cleveland, Ohio  
 64 Francis Gerard McNulty, Pittston, Pa.  
 65 John Michael Murray, Jr., South Rockwood, Michigan  
 66 Daniel Paul Ranly, Minster, Ohio  
 67 Frank Thomas Santorali, Neptune, N. J.  
 68 Paul Lawrence Sak, Parma, Ohio  
 69 Robert Thomas Schmidt, Waverly, Pa.  
 70 Michael Emmett Walsh, Oregon, Ohio  
 71 Michael Raymond Young, Royal Oak, Mich.  
 72 Cameron Nathaniel Lusty, St. Petersburg, Florida  
 73 Mark James Callan, Buffalo, N. Y.  
 74 John Kevin Hopkins, Buffalo, N. Y.  
 75 Robert Eugene Kopicki, Scranton, Pa.  
 76 Spencer James Joseph Rainey, Clifton, N. J.  
 77 Peter Clifford Schmitt, Buffalo, N. Y.

### KAPPA BETA CHAPTER

- 39 Charles Stanton Field III, Shugualak, Miss.  
 40 William Lesley Hunter III, Cleveland, Miss.  
 41 James Martin Johnson, Jr., Tupelo, Miss.  
 42 James Francis Lancaster, Starkville, Miss.  
 43 Mickey Leon McReynolds, Starkville, Miss.  
 44 James Therrell Owen, Jackson, Miss.





# 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. VISAL, 4039 West Mercer Way, Mercer Island, Washington 98040  
 WILLIAM M. LEWIS, 33 Pilgrim Lane, Drexel Hill, Pennsylvania 19026  
 ISAAC B. HANKE, 2120 Northwest Boulevard, Spokane, Washington 99205

## PAST GRAND REGENTS

ERICH J. SCHRAEDER, *Alpha*, (1904-1919)\*  
 GEORGE D. LOUDERBACK, *Epsilon*, (1919-1925)\*  
 J. SIDNEY MARINE, *Eta*, (1925-1927), 45 Popham Road, Scarsdale, New York 10583  
 RICHARD J. RUSSELL (Dr.), *Epsilon*, (1927-1931), 4575 Highland Rd., Baton Rouge, La. 70809  
 FRED COFFMAN, *Lambda*, (1931-1935)\*  
 HEDMAN H. HOPKINS, *Beta*, (1935-1937), 3320 Culver Avenue, Evanston, Illinois 60201  
 JOHN M. DANIELS (Dr.), *Nu* *Honorary*, (1937-1939), 338 Cole Road, Sarver, Pennsylvania 16055

RUSSELL G. GLASS, *Sigma*, (1939-1946), Saddleback Lane, Gates Mills, Ohio 44040  
 RALPH W. NUSSER, *Zeta*, (1946-1948), 609 West Dartmouth, Kansas City, Missouri 64113  
 NORMAN B. AMES, *Gamma* *Beta*, (1948-1950)\*  
 DONALD D. CURTIS (Prof.), *Omicron* *Honorary*, (1950-1952), 114 Albee Street, Clemson, South Carolina 29631  
 JAMISON VAWTER, *Zeta*, (1952-1954)\*  
 A. DEXTER HINGCLEY, *Theta*, (1954-1958), 90 Morningside Drive, New York, N. Y. 10027  
 CHARLES W. BRITZBUR, *Alpha*, (1958-1962), 2440 Franklin Avenue, St. Paul, Minnesota 55114  
 \*Deceased

## EXECUTIVE COUNCIL

GRAND REGENT WILLIAM K. RLY (Prof.), *Mu* '45 — P. O. Box 664, University, Alabama 35486  
 GRAND VICE REGENT C. RAMOND HANES, *Sigma* '24, 551 E. Dominion Blvd., Columbus, Ohio 43214  
 GRAND SCRIBE ROBERT E. POPE, *Zeta* '52 — 13 Sona Lane, Saint Louis, Missouri 63141  
 GRAND TREASURER CHARLES W. BRITZBUR, *Alpha* '33, 2440 Franklin Ave., St. Paul, Minn. 55114  
 GRAND MARSHAL RICHARD LYNCH, *Epsilon* *Beta* '53, West Lafayette Towers, Detroit, Mich. 48207  
 GRAND INNER GUARD C. E. WALKER, *Epsilon* *Beta* '53, 409 W. Stadium, W. Lafayette, Ind. 47906  
 GRAND OUTER GUARD JAY N. THORPE, *Lambda* '57, 5208 - 119th Ave., S.E., Bellevue, Wash. 98004

## DELEGATE-AT-LARGE

PAST GRAND REGENT CHARLES W. BRITZBUR, *Alpha* '33, 2440 Franklin Ave., St. Paul, Minn. 55114

## CENTRAL OFFICE

ROBERT E. POPE, *Zeta* '52, Executive Secretary — 13 Sona Lane, Saint Louis, Missouri 63141

## REGIONAL DIRECTORS

NORTHERN JAMES L. REYNOLDS, *Alpha* '58, Mechanical Engineering Department, University of Minnesota, Minneapolis, Minnesota 55455 (*Alpha*, *Beta*, *Xi*, *Omicron*)  
 SOUTHERN FRED E. ARMSTRONG, JR., *Mu* '61, The Trane Co., 2257 Highland Avenue, Birmingham, Alabama 35205 (*Zeta*, *Iota*, *Mu*, *Upsilon*, *Eta* *Beta*, *Kappa* *Beta*)  
 CENTRAL GEORGE G. DODS (Dr.), *Zeta* '60 — 50110 Gravel Ridge Road, Utica, Michigan 48087 (*Delta*, *Sigma*, *Phi*, *Delta* *Beta*, *Epsilon* *Beta*, *Iota* *Beta*)  
 EASTERN JOHN M. DEALY (Dr.), *Zeta* '58, Department of Chemical Engineering, McGill University, Montreal 2, Quebec, Canada (*Theta*, *Phi*, *Rho*, *Tau*, *Gamma* *Beta*)  
 WESTERN GARY HATCH, *Zeta* *Beta* '56 — 2011 Bryan Avenue, Salt Lake City, Utah 84108 (*Gamma*, *Epsilon*, *Lambda*, *Chi*, *Psi*, *Omega*, *Zeta* *Beta*, *Theta* *Beta*)

## SPECIAL APPOINTMENTS

ARCHIVIST MILTON S. WUNDERLICH, *Alpha* '19 — 545 Mount Curve Blvd., St. Paul, Minn. 55116  
 SPECIAL REPRESENTATIVE FOR CALIFORNIA JACK E. PAYNE, *Lambda* '62, 2245 Lanai Avenue, Apt. 60, San Jose, California

# THE GEAR OF THETA TAU

## CHAPTERS AND CHAPTER ADVISERS

ALPHA	Founded October 15, 1904 515 Tenth Avenue, S. E., Minneapolis, Minnesota 55414* Adviser: DR. ROY H. MATTHEWSON, Department of Electrical Engineering, University of Minnesota, Minneapolis, Minnesota 55414	University of Minnesota
BETA	Established March 26, 1906 U. S. Highway 41, Houghton, Michigan 49931* Adviser: PROF. HERBERT W. HAWN, Mechanical Engineering Department, Michigan Technological University, Houghton, Michigan 49931	Michigan Technological University
GAMMA	Established November 8, 1907 Box 134, Colorado School of Mines, Golden, Colorado 80401 Adviser: DR. RUDY C. EPES, Department of Geology, Colorado School of Mines, Golden, Colorado 80401	Colorado School of Mines
DELTA	Established May 23, 1911 Theta Tau Box, Case Institute of Technology, Cleveland, Ohio 44106 Adviser: DR. ROBERT H. SCANLAN, Department of Engineering Mechanics, Case Institute of Technology, Cleveland, Ohio 44106	Case Institute of Technology
EPSILON	Established May 4, 1911 Theta Tau, Engineering Research Services Building, University of California, Berkeley, California 94720 Adviser: DR. JAMES M. CARMAN, School of Business Administration, University of California, Berkeley, California 94704	University of California
ZETA	Established April 17, 1912 1602 Louisiana Street, Lawrence, Kansas 66045* Adviser: WILLIAM B. DUNCAN, 2908 West 9th, Lawrence, Kansas 66045	University of Kansas
THETA	Established May 26, 1914 c/o Dean's Office, School of Engineering, Columbia University, New York, New York 10027 Adviser: PROF. ROBERT J. COOPER, Director of Student Activities, School of Engineering, Columbia University, New York, New York 10027	Columbia University
IOTA	Established February 5, 1916 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	University of Missouri at Rolla
LAMBDA	Established April 29, 1920 Merrill Engineering Building, University of Utah, Salt Lake City, Utah 84112 Adviser: PROF. FRESTON D. LINFORD, Civil Engineering Department, University of Utah, Salt Lake City, Utah 84112	University of Utah
MU	Established January 3, 1922 300 Thomas Street, Tuscaloosa, Alabama 35401* Adviser: PROF. WILLIAM K. REY, P. O. Box 664, University, Alabama 35486	University of Alabama
XI	Established January 13, 1923 Theta Tau Box, Mechanical Engineering Building, University of Wisconsin, Madison, Wisconsin 53706 Adviser: DR. JOHN W. MITCHELL, Department of Mechanical Engineering, University of Wisconsin, Madison, Wisconsin 53706	University of Wisconsin
OMICRON	Established February 3, 1923 Theta Tau Box, Engineering Building, Iowa City, Iowa 52240 Adviser: DR. DONALD H. MADSEN, Engineering Building, Iowa City, Iowa 52240	State University of Iowa
PI	Established May 26, 1923 Thornton Hall, University of Virginia, Charlottesville, Virginia 22903 Adviser: DR. GEORGE B. MATTHEWS, Department of Aerospace Engineering, University of Virginia, Charlottesville, Virginia 22903	University of Virginia
RHO	Established February 16, 1924 P. O. Box 5282, State College Station, Raleigh, North Carolina 27607 Adviser: DR. FORREST W. LANCASTER, P. O. Box 5367, State College Station, Raleigh, North Carolina 27607	North Carolina State College
SIGMA	Established November 29, 1924 1946 Indianola Avenue, Columbus, Ohio 43201* Adviser: DR. ROBERT L. CONGRU, Department of Electrical Engineering, Ohio State University, Columbus, Ohio 43210	Ohio State University

# FALL 1965

TAU	Established December 12, 1925 Syracuse University Theta Tau Box, College of Engineering, Syracuse University, Syracuse, N. Y. 13210 Adviser: PROF. CARROLL P. BOCK, Associate Dean, College of Engineering, Syracuse University, Syracuse, New York 13210
UPSILON	Established April 7, 1928 University of Arkansas 763 West Dickson Street, Fayetteville, Arkansas 72701* Adviser: PROF. J. R. BISSETT, Associate Director, Engineering Experiment Station, University of Arkansas, Fayetteville, Arkansas 72701
PHI	Established April 21, 1928 Purdue University 416 North Chauncey Avenue, West Lafayette, Indiana 47906* Adviser: PROF. JOHN McLAUGHLIN and PROF. JOSEPH OPPENLANDER, Department of Civil Engineering, Purdue University, West Lafayette, Indiana 47906
CHI	Established April 23, 1930 University of Arizona 840 East Fourth Street, Tucson, Arizona 85719* Adviser: PROF. PHILIP B. NEWLIN, Civil Engineering Department, University of Arizona, Tucson, Arizona 85719
PSI	Established May 7, 1932 Montana College of Mineral Science & Technology Theta Tau, 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
OMEGA	Established March 20, 1932 South Dakota School of Mines and Technology 107 Kansas City Street, Rapid City, South Dakota 57701* Adviser: PROF. WILLIAM V. COYLE, Civil Engineering Department, South Dakota School of Mines, Rapid City, South Dakota 57701
GAMMA BETA	Established March 16, 1935 The George Washington University Theta Tau, Davis-Hodgkins House, 731 - 22nd Street, N.W., Washington, D. C. 20006 Adviser: PROF. CARL H. WALTHER, School of Engineering and Applied Science, The George Washington University, Washington, D. C. 20006
DELTA BETA	Established May 20, 1939 University of Louisville 2022 South First Street, Louisville, Kentucky 40205* Adviser: PROF. MILLS G. NORTHBOP, Electrical Engineering Department, University of Louisville, Louisville, Kentucky 40205
EPSILON BETA	Established May 19, 1951 Wayne State University 1200 West Hancock, Detroit, Michigan 48201* Adviser: DR. HAROLD G. DONNELLY, Chemical and Metallurgical Engineering Department, Wayne State University, Detroit, Michigan 48201
ZETA BETA	Established May 7, 1960 Utah State University of Agriculture and Applied Science Box 254, Union Building, Utah State University, Logan, Utah 84321 Adviser: DR. REYNOLD K. WATKINS, Mechanical Engineering Department, Utah State University, Logan, Utah 84321
ETA BETA	Established May 13, 1961 University of Houston 815 Kipling Street, Houston, Texas* Adviser: PROF. WILLIAM J. LEACH, Assistant Dean, Cullen College of Engineering, University of Houston, Houston, Texas 77004
THETA BETA	Established March 2, 1963 University of Washington Box 171, Student Union Building, University of Washington, Seattle, Wash. 98105 Adviser: ROY A. MCCREARY, 16311 Southeast Second, Bellevue, Washington
IOTA BETA	Established February 15, 1964 University of Detroit Theta Tau, University of Detroit, Detroit, Michigan 48221 Adviser:
KAPPA BETA	Established November 21, 1964 Mississippi State University P. O. Box 2983, State College, Mississippi 39702 Adviser: PROF. CLAUD J. IRBY, JR., Box 161, State College, Mississippi 39702
COLONY	
GMI	Certified September 25, 1965 General Motors Institute Theta Tau Colony, General Motors Institute, 1700 West 3rd Avenue, Flint, Michigan 48502 Adviser: PROF. JAMES B. BAY, 3202 Briarwood Drive, Flint, Michigan 48507

\* Chapter house

## THE GEAR OF THETA TAU

### INTERIM COMMITTEES, 1965-1966

**CONSTITUTION REVISION**—DR. JOHN M. DEALY, *Chairman*, Department of Chemical Engineering, McGill University, Montreal 2, Quebec, Canada

**CONVENTION PLANNING**—ROBERT E. POPE, *Chairman*, 13 Sona Lane, Saint Louis, Missouri 63141

**CURRICULAR ELIGIBILITY**—DR. CHARLES E. WALES, *Chairman*, 409 West Stadium, West Lafayette, Indiana 47906

**EXTENSION**—ROBERT E. POPE, *Chairman*, 13 Sona Lane, Saint Louis, Missouri 63141; WILLIAM A. McCULLOCH, 1421 Cambridge Place, Apt. 30, Manhattan, Kansas 66502; JAMES E. SCYNARR, 2012 West Ash, H9 Town & Campus, Columbia, Missouri 65202

**FINANCE**—CHARLES W. BRITZUS, *Chairman*, 2440 Franklin Avenue, Saint Paul, Minn. 55114

HERMAN H. HOPKINS, 3320 Calvert Avenue, Evanston, Ill. 60201; RICHARD LYNCH, West Lafayette Towers, Apt. 1804, Detroit, Mich. 48207; PAUL L. MERCER, P.O. Box 487, Keokuk, Iowa 52632

**HISTORY**—DR. JOHN M. DEALY, *Chairman*, Department of Chemical Engineering, McGill University, Montreal 2, Quebec, Canada

**REGIONAL CONFERENCES**—DR. GEORGE G. DODD, *Chairman*, 50110 Gravel Ridge Road, Utica, Michigan 48087

**RITUAL REVISION**—DR. GEORGE G. DODD, *Chairman*, 50110 Gravel Ridge Road, Utica, Michigan 48087

**SCHRADER AWARD**—DR. CHARLES E. WALES, *Chairman*, 409 West Stadium, West Lafayette, Indiana 47906; JAMES T. DIXON III, Apt. 4F, 2209 Bob Wallace Avenue, Huntsville, Alabama 35805

### PRESIDENTS AND SECRETARIES OF ALUMNI ASSOCIATIONS

**CENTRAL** JAMES ANDERSON, *President*, 54 East Royal Forest Blvd., Columbus, Ohio 43214  
FREDERICK TOMAZIN, *Secretary*, 554 Riverview Drive, Columbus, Ohio

**CHICAGO** ALF T. SWANSON, *President*, 479 Winchester Road, Chicago Heights, Ill. 60411

**CLEVELAND** JAMES R. McKNONEY, *President*, 3853 Kirkwood Road, Cleveland, Ohio 44121  
CALVIN DALTON, *Secretary*, The Arcade, Cleveland, Ohio 44114

**DETROIT** ROBERT F. CURCHIEK, *President*, 3006 Harwick, Apt. 4, Lansing, Michigan  
LAWRENCE C. BOZAR, *Secretary*, 30220 Austin Drive, Warren, Michigan 48090

**INTERMOUNTAIN** CLAYTON H. KOEBALL, *President*, 1193 S. 19th E., Salt Lake City, Utah 84106

K. S. GREENE, *Secretary*, 1230 South Twentieth East, Salt Lake City, Utah 84108

**KANSAS CITY** DAVID E. SHAAZ, *President*, 5616 Johnson Drive, Shawnee Mission, Kansas  
RONALD W. BONJOUR, *Secretary*, 5507 W. 78th Terrace, Prairie Village, Kansas

**METROPOLITAN NEW YORK** DON MACLAREN, *President*, 994 Oakland Avenue, Plainfield, New Jersey 07060

JOSEPH R. MCCORMICK, *Treasurer*, 243 West Hazelwood Avenue, Rahway, N. J. 07065

**NATIONAL CAPITAL** PAUL KIZZO, *President*, 3601 Van Ness Street, N.W., Washington, D.C. 20005

HERBERT S. WILKINSON, *Secretary*, 4743 Bradley Boulevard, Bethesda, Maryland

**NORTH ALABAMA (Club)** LEON M. VICK, JR., *President*, 1726 Monte Sano Boulevard, S.E., Huntsville, Alabama 35801

CHARLES H. HANKEW, *Secretary*, 3505 Cayman Road, S.W., Huntsville, Alabama 35805

**PACIFIC NORTHWEST** GEORGE J. MILLER, *President*, 1226 - 22nd Avenue East, Seattle, Washington 98102

J. DELVEN ARMSTRONG, *Secretary*, 16504 N.E. 13th, Bellevue, Washington

**SOUTHWESTERN** JOHN F. RAUSCHER, *President*, 510 E. Sahara, Tucson, Arizona

A. EARL HAMILTON, *Secretary*, 4808 East Bellevue Avenue, Tucson, Arizona 85719

**TWIN CITY** ALEX KOVALCHUK, *President*, 10708 27th Avenue South, River Hills, Burnsville, Minnesota 55378

JOHN E. TUSHIE, *Secretary*, 2460 Gettysburg Avenue South, Minneapolis, Minnesota

### Errata

The Spring 1965 issue of THE GEAR carried an incorrectly labeled photo in the Convention story on page 6, lower left corner. Correctly identified, the caption should have read, "The Regional Conference Committee meets with Robert E. Schramm, Tau, Joseph R. McSwiggan, Omicron, and David A. Young, Chi, present." In the photo immediately above and to the right on page 6, the caption should read, "John M. Dealy (1956), George G. Dodd (1958)" as the years they were selected Outstanding Delegates.

## 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, 7409 Village Drive, Shawnee Mission, Kansas 66208.

Name \_\_\_\_\_ Chapter \_\_\_\_\_ Class \_\_\_\_\_  
Year \_\_\_\_\_  
Address \_\_\_\_\_  
News of yourself and/or others \_\_\_\_\_

## NOTICE OF DECEASED MEMBER

Please give as complete information as possible, including biographical data known, clippings, etc. Send to THE GEAR OF THETA TAU, 7409 Village Drive, Shawnee Mission, Kansas 66208.

Name \_\_\_\_\_ Chapter \_\_\_\_\_ Class \_\_\_\_\_  
Year \_\_\_\_\_  
Address \_\_\_\_\_  
Date and place of death \_\_\_\_\_  
Name and address of nearest relative \_\_\_\_\_  
Reported by \_\_\_\_\_ Chapter \_\_\_\_\_  
Address \_\_\_\_\_  
Relationship to deceased \_\_\_\_\_

## RECOMMENDED STUDENTS

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

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

Name \_\_\_\_\_ School \_\_\_\_\_  
Mailing Address \_\_\_\_\_ Major \_\_\_\_\_  
Expected Graduation Date \_\_\_\_\_

Remarks:

Signed \_\_\_\_\_ Chapter \_\_\_\_\_ Year \_\_\_\_\_

## CHANGE OF ADDRESS NOTICE

Send to THE GEAR OF THETA TAU, 7469 Village Drive, Shawnee Mission, Kansas 66208.

Name \_\_\_\_\_ Chapter \_\_\_\_\_ Class \_\_\_\_\_  
Year \_\_\_\_\_

### Old address:

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_

### New address:

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_

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

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_

## NOTICE OF ALUMNUS ADDRESS

Send names and addresses of any alumni you know who may not be receiving THE GEAR to THE GEAR OF THETA TAU, 7469 Village Drive, Shawnee Mission, Kansas 66208.

Name \_\_\_\_\_ Chapter \_\_\_\_\_ Class \_\_\_\_\_  
Year \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_

Reported by \_\_\_\_\_ Chapter \_\_\_\_\_ Class \_\_\_\_\_  
Year \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_

Be sure the Theta Taus you know are receiving THE GEAR.

## GIFTS TO THETA TAU

Make checks payable to Theta Tau Fraternity and mail to Robert E. Pope, Executive Secretary, 13 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 \_\_\_\_\_

## A Student Member Speaks on Housing

*Editor's Note: The May 1965 issue of the Upsilon Chapter newsletter includes an excellent article by Roy Walters, Upsilon '65. While he directs his appeal to Upsilon alumni and his Chapter's recent efforts to maintain housing near the campus, what he says in the last part of his article is so good and well said that the Editor felt it should be shared with all who receive THE GEAR. Nothing on campus is as important to the Fraternity as its house—for there the members experience each day what it means to have someone really care what happens to a man as he struggles with basic principles of life as well as engineering courses.*

—WEF

The fraternity house is priceless to Theta Tau in many ways. When I look back over my four years as a member of Upsilon, three of which were spent in the house, it is easy to see what it has meant to me. It is quite a jolt if you come to the University from a small town in Arkansas where life was so rough. The social problems were so depressing—adjusting from the everyday chores such as milking a Jersey cow into a lard bucket and straining the milk through a flour sack into a mason jar.

I would have gone home, but everyone down there would talk about me and Dad sure is proud to think his son is going to college when he had only gotten to the eighth grade.

Needless to say, it requires a lot of self discipline, pride, hard work, and mental support to get an engineering degree for

most of us. In the face of all this as a freshman, things were looking critical for me. Then I met up with that bunch of boys over on North University who had the same problems I did. By golly, I wasn't the only red-neck up here after all. The food over there where Charlie and the boys lived was just like it is at home. Jessie Mosby used lots of pure lard and the right amount of ham bone in the brown beans. Well, I pledged Theta Tau and slowly, my brogans changed to a pair of wing-tipped Florsheims, along with the other guys. We still have a little dust on them, I suppose, but we have made the big transition with a lot of help.

We might have all made it through engineering, but I feel that if I had stayed holed up in some six by eight basement apartment for four years, I might have lost sight of the right goals and some of my basic principles. Indeed, the many activities and organizations I have participated in as a result of Theta Tau, and the brotherhood, moral support, and professional development might have been acquired with some sacrifice in grades, but I'm going to be a happy little old hard working engineer.

When I graduate and get far from the halls of learning, I hope that in some way I will be able to help a promising young freshman who needs a Theta Tau house to help him attain the most important goal of his life—self realization.

ROY WALTERS  
Upsilon '65

**national engineers'  
week • feb. 20-26**



Theta Tau student and alumni members are urged to take part in National Engineers' Week. This is a fine opportunity for engineers to bring their profession to the attention of the public. This annual event is sponsored by the National Society of Professional Engineers. The Theta Tau Central Office will furnish posters and seals free on request to any Theta Tau member. Your local chapter of NSPE will be having organized activities—join with them if possible.

THE GEAR OF THETA TAU  
7469 Village Drive  
Shawnee Mission, Kansas 66208

Return Requested

Non-Profit  
Bulk Rate  
U. S. POSTAGE  
PAID

Lawrence, Kansas  
Permit No. 116

Dr. Charles E. Wales  
409 West Stadium  
West Lafayette, IN 47906

EB 22

## *Triumph of the Jewelers Art*

YOUR BADGE — a triumph of skilled and highly trained Balfour craftsmen is a steadfast and dynamic symbol in a changing world.

**WEAR YOUR PIN WITH PRIDE  
AS IT REFLECTS THE RICH TRADITIONS  
OF YOUR FRATERNITY LIFE.**

OFFICIAL JEWELER TO THETA TAU

Write for complete insignia price list



*L. G. Balfour Company*  
ATTLEBORO MASSACHUSETTS

IN CANADA L. G. BALFOUR COMPANY LTD. MONTREAL AND TORONTO