



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



SPRING 1965

VOLUME LIV

NUMBER 2

THE EXECUTIVE COUNCIL

has authorized a formal plan for

VOLUNTARY CONTRIBUTIONS TO THETA TAU FRATERNITY

by its alumni and other interested persons. These contributions may be by periodic or occasional gifts or bequests.

Specifically, persons may contribute to a "Founders' Memorial Fund" or give "unrestricted gifts." Funds contributed to the Founders' Memorial Fund are to be invested in securities (stocks, bonds, and mortgages) with preference to be given to loans to Theta Tau house corporations for the purpose of building, buying, remodeling, or furnishing chapter houses. One-half of the return on invested funds will be reinvested, and the other one-half will be used as directed by the Trustees (Executive Council). These gifts are not deductible for income tax purposes. Unrestricted gifts will be used in the operation or promotion of Theta Tau Fraternity as directed by the Trustees.

No minimum amount has been set, and all gifts are welcome. The form on page 56 is provided for those interested.

BEQUESTS TO THETA TAU

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

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



The Gear of Theta Tau

SPRING 1965

VOLUME LIV NUMBER 2

Board of Editors

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

J. W. HOWE

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Cover: The United States Pavilion at the New York World's Fair was designed by the architectural firm of Charles Luckman, Kappa '31 (see page 20). The pavilion received an Architectural Award for Excellence in 1964 from the American Institute of Steel Construction, and another award from the New York State Association of Architects went to the Federal Government. The pavilion contains some 150,000 square feet of enclosed space and is situated on a circular $4\frac{1}{2}$ acre, 500-foot-diameter site.

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Convention Starts Our Next Sixty Years

The Sixtieth Anniversary Convention officially became the A. Dexter Hinckley Convention; more than one hundred members participated in its events. A colony system was adopted and a flag design was approved. The story gives the highlights of the activities.

by Charles E. Wales, Grand Inner Guard

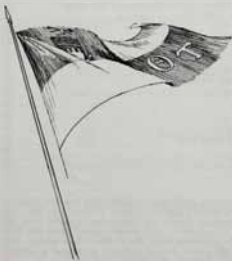
Although it was reliably reported that some members of Theta Tau had trouble finding first, Columbus, Ohio, and then the Deshler Hotel, almost 100 brothers assembled last December 27th for the Twenty-Fifth Biennial Convention of the Fraternity. At the hotel three teams of national officers and alumni checked credentials. As soon as a delegate or alternate had proved himself a member of Theta Tau, he began work on one of his committee assignments.

Despite popular traditions to the contrary, it should be noted that a Theta Tau Convention is a working convention. National officers and Regional Directors

made their reports to the first formal Convention session on Sunday evening. Committees picked up their work soon after the session ended and many worked far into the night. Even the "old men" on the Executive Council worked until 1:30 a.m. Too many stayed up too late, and the second session on Monday morning was almost an hour late getting started. This Session was a Ritual Workshop and was wisely conducted by George Dodd, chairman of the Ritual Revision committee, after which the delegates adjourned for a bus tour of the Ohio State campus. Unfortunately, the hotel had only one of its three elevators in service throughout the Convention. Can you imagine ninety men all heading for their rooms and coats at the same time—in one elevator. Needless to say, the Convention ran late most of the time.

Ohio State has an impressive campus. But of all the things the delegates saw, they seemed most impressed by the 35-acre woods and small lake in the center of it all. A brief stop provided time for the examination of two research projects. Another stop was made at the Sigma Chapter house a few blocks off the campus.

Following lunch the legislative work of the Convention got underway. The hard work of interim committees supplemented by that of the late-working Convention committees brought forth a flow of recommendations that didn't stop until the Convention closed on Wednesday afternoon. The Professional Development and Schrader Award Committees were the first to report. The session closed with a memorial service to honor those members of Theta



A flag design was adopted by the Convention. It incorporates the coat of arms and the Greek letters in gold. Two quadrants are in dark red and two in gold—the official colors of Theta Tau. Sketch by Robert J. Rehagen, Zeta '61.



OFFICIAL CONVENTION PHOTOGRAPH

First row: Milton S. Wunderlich, Archivist; Fred E. Armstrong, Jr., Southern Regional Director; Robert E. Pope, Grand Scribe; C. Ramond Hanes, Grand Vice Regent; William K. Rey, Grand Regent; William M. Lewis, Founder; Charles W. Britzins, Grand Treasurer; Charles E. Wales, Grand Outer Guard; Jay N. Thorpe, Grand Inner Guard; William E. Franklin, GEAR Editor; George G. Dodd, Central Regional Director. *Second row:* Rex A. Martin, Upsilon; John E. Daniel, Mu; Zane M. Hoyt, Mu; Michael J. Hessman, Omega; Leland G. Ferguson, Rho; Lee R. Leth, Theta Beta; George R. Lightsey, Kappa Beta; Robert F. Mullen, Gamma Beta; Joseph F. Martino, Gamma Beta; Christopher B. Betwee, Detroit Alumni Association; Larry J. Pauly, Sigma. *Third row:* Carl Gibbons, Upsilon; Robert R. Snellgrove, Mu; James R. Larsen, Gamma; Jack Giles, Upsilon; Rodney L. Clemetson, Zeta; Edward M. Paddock, Jr., Iota Beta; Raymond A. Gunther, Epsilon Beta; Richard D. Wisley, Epsilon Beta; George Haskin, Epsilon Beta; Joseph F. Movizzo, Xi; Richard D. Higdon, Phi; Jack E. Payne, Lambda; Gerald J. Bizjak, Xi. *Fourth row:* Don R. Allen, Upsilon; Thomas C. Wolford, Pi; William T. Jones, Jr., Delta; Jess Agran, Lambda; Wayne H. Patchin, Zeta; Ronald C. Read, Iota Beta; Edward D. Hassato, Theta; Richard V. Porcelli, Theta; William G. Lowrie, Sigma; Allan H. Kopp, Tau; Ronald W. Bennett, Epsilon Beta (pledge); Gary G. Brun, Xi. *Fifth row:* Lawrence J. Rennie, Sigma; Michael F. Vittek, Alpha; Douglas P. Munson, Alpha; Keith Kessler, Beta; C. Donald Cooper, Iota; Robert H. Graham, Iota; Larry Anderson, Zeta Beta; John M. Dealy, Northern Regional Director; Douglas D. Fockler, Sigma. *Sixth row:* Frank Shah, Sigma; Richard N. Gerstle, Delta Beta; Don L. Hinton, Delta Beta; Joey Brookman, Eta Beta; William M. Farrell, Iota; Robert E. Schramm, Tau; William C. Wilder, Phi; Joseph A. Roelter, Epsilon Beta; Gary L. Rasco, Eta Beta; Andrew L. Nolan, Jr., Epsilon Beta. *Seventh row:* Donald E. Seely, Sigma; Alan P. Mateja, Delta Beta; Thomas Costilow, Delta Beta; James K. Klein, Delta Beta; Charles E. Rice, Omicron; James Mitchell, Beta; W. J. Goodrum, Rho; Frederick F. Monk, Jr., Chi; David A. Young, Chi; Joseph R. McSwiggin, Omicron; Richard B. Edwards, Epsilon Beta (pledge); Dwight E. King, Sigma.

Tau whose passing had been reported since the last Convention.

Rather than the usual after dinner speaker, the evening meal was followed by a movie and a panel discussion. Sigma Chapter prepared the entertaining and informative movie on the "life" of a pledge.

The panel sparked an excellent discussion on the selling points that make Theta Tau "the" fraternity to pledge. Recognition of the man as an individual, small chapter size, common interests, homework help when you need it, social activities suited to the demands of an engineering program,



At the panel discussion Dick Wisely, Epsilon Beta, Larry Pauly, Sigma, and David Young, Chi, wait to give their versions, while Donald Seely, Sigma, presents his case on rushing procedures.



Dick Higdon, Regent of Phi Chapter, receives the Erich J. Schrader Award for his Chapter from Charles E. Wales.



Grand Regent Rey presents Charles W. Britzius with his Alumni Citation.



John E. Daniel, Mu Chapter, receives his citation for being elected Outstanding Delegate from Robert E. Pope.



Grand Regent Rey presents Jay N. Thorpe with his Alumni Citation.

The swearing in of new officers. William K. Rey, William E. Franklin, Robert E. Pope, C. Ramond Hanes, Charles W. Britzius, Richard Lynch, Charles E. Wales, and Jay N. Thorpe.



and valuable alumni contacts were all vigorously presented as strong selling points.

The work of sleepless committees was evident on Tuesday morning when the flow of legislation began again. Since much of the legislation involved changes in the Constitution, that committee held the floor most of the morning, and important changes were made. For example, to be eligible to pledge Theta Tau, a man must now be enrolled as a full-time student in a curriculum that leads to an engineering degree and that specifies not less than 25% of the total requirement credit hours are in courses taught by an engineering department. Previous eligibility was based on ECPD-approved course titles.



Founder William M. Lewis and visitor William J. Goodrum, Rho '44, study the report of one of the many Convention committees.



The Committee on Finances wrestles with the budget for the next two years. Ed Paddock, Jr., Iota Beta; Gary Brun, Xi; and Carl Gibbons, Upsilon, Chairman.

Since no time was available for just eating, lunch served as the basis for a set of regional meetings. The delegates from each region had a chance to air their chapters' problems with each other and with national officers from their area.

During the balance of the day, the Convention considered reports from the Insignia, Discipline, Extension, Ritual Revision, and the Regional Conferences Committees. In each case, a basic philosophy was hammered out before the reports were sent to the Constitution Committee for final wording of the proposed changes.

Three delegates brought their wives and these lovely ladies were soon pressed into service typing committee reports.

The afternoon ended on a high note as

a special team of delegates initiated four Sigma Chapter pledges.

On Tuesday evening "the" Convention Banquet was held, which not only paid tribute to Theta Tau's sixty years of progress but also brought to a close the official celebration of this event in our Fraternity's history. After dinner Phi Chapter was presented the "Erich J. Schrader" Award as the most outstanding chapter during the biennium. Upsilon was second, Omega Chapter third. While the Award was well earned, its presentation to Phi Chapter brought more than the usual round of applause. Earlier in the day the delegate from Phi Chapter had revealed the fact that more than one member of his Chapter had illegally used his badge to pin his girl. Later, his proposed amendment to the Constitution was adopted by the Convention—an amendment which recognized the sister pin on a level with the official badge. Phi Chapter (and we expect other Chapters) promised to enforce more rigidly the custom of Theta Tau that only a member may wear its official badge.

The Outstanding Delegate Award was presented to John E. Daniel, Regent of Mu Chapter. John earned the award as chairman of the Constitution Committee, the committee that had perhaps the most difficult work to do. This committee had



The hard working Sigma Host Committee poses. Frank Shah, Douglas Fockler, Dwight King, Bill Lowrie (Regent), Larry Rennie, and Larry Pauly.



Founder Lewis giving his remarks to those attending the Convention banquet.



Bill Rey, Grand Regent, shares a letter with Jack Payne, Lambda alumnus, Bob Pope, Grand Scribe, and Delegates and Alternates.



Outstanding Delegates, past and present: John M. Dealy (1958), George G. Dodd (1960), John E. Daniel (1964), Robert E. Pope (1954).



(Photos pages 4, 5, 6, and 7 by Jay Thorpe and Sigma Chapter)

spent much of the afternoon on the Convention floor and the delegates had thus been torn between taking a vote in time for the award to be announced at the banquet or delaying until all the committees had had a chance to report. Most felt there had been ample opportunity for the delegates to perform on the Convention floor and in committee, and the delegates chose their outstanding member by vote just prior to the banquet.

Next, Brother William M. Lewis, Founder Number Three, entertained the banquet with his stories about the early days of Theta Tau. By his presence throughout the whole Convention, Brother Lewis contributed importantly to the spirit of the meeting. In addition, his generous gifts to the Founders' Memorial Fund will help Theta Tau continue to grow and prosper.

Grand Regent Rey read messages from Founders Vinal and Hanks, and from many past grand officers. In addition, Brother Rey presented two Alumni Citations. The first was presented to Jay Thorpe, Grand Inner Guard, for his outstanding work in stimulating the development of new chapters at Utah State and at the University of Washington, and for his work in organizing the Pacific Northwest Alumni Association. Former Grand Regent and current Grand Treasurer Charles W. Britzius received the second Alumni Citation for his continuous record of outstanding service to Theta Tau.

Brother David C. Minton, Jr., director of the Battelle Memorial Institute and a charter member of Chi Chapter, presented the banquet address. Brother Minton used an outstanding engineering achievement, the Verrazano-Narrows Bridge, to demonstrate the importance of "communications" to an engineer. The engineer, he said, is the "key person destined to apply vital engineering services which must be compatible to social and political factors, the economics of the day, and the needs of future generations. . . . This does place a special responsibility upon the engineer, but it is rewarding to be a special person

upon whom society leans so heavily. Our society is becoming so technically oriented that more and more government, industry, and education are looking to our ranks for its leaders." Communication is the key to this success.

Off key, but nonetheless enthusiastic group singing closed the Convention Banquet. Then it was back to work as many committees continued their efforts far into the night again. It should be noted that a few of the delegates did manage to step out of the hotel for an hour or two to find out if Columbus were really outside after all.



David Minton, director of Battelle Institute, delivers the main banquet address.

Wednesday morning the final Convention session began. Among the legislation approved were: a \$63,000 biennial budget, an optional pledging ceremony, a Fraternity flag, a new eligibility criteria, and a colony system. The colony system was strongly recommended to provide status for a prospective chapter. Colony members will be allowed to wear a pin similar to the present Theta Tau pledge pin and they will receive THE GEAR. These and other complex legislative actions caused this final session of the Theta Tau Convention to run on into the lunch hour. Unfortunately, a

few delegates had presumed adjournment would be earlier, and they left to catch planes or trains. About noon, the delegates that remained eagerly passed a motion that directed the Grand Treasurer to immediately purchase and distribute candy bars to all those assembled.

About 2:00 p.m., all bills had been thrashed out and passed or defeated, and the Convention adjourned. As one of their final actions, the delegates re-elected all the present national officers to serve for another biennium. These are: Grand Regent, William K. Rey, professor of aerospace engineering, University of Alabama; Grand Vice Regent, C. Ramond Hanes, engineer, research and development, Ohio

Department of Highways; Grand Scribe, Robert E. Pope, Executive Secretary of Theta Tau; Grand Treasurer, Charles W. Britzius, president, Twin City Testing & Engineering Laboratory, Inc.; Grand Marshal, Richard Lynch, director, James & Savage Corporation; Grand Inner Guard, Charles E. Wales, Ph.D. candidate, Purdue University; and Grand Outer Guard, Jay N. Thorpe, research engineer, The Boeing Company. The future of our Fraternity rests in their hands.

The Convention was hard work, but it was fun too. Perhaps the only complaint that could be leveled at this meeting was that there was not enough time for just plain getting acquainted. Maybe in '66...

John Daniel is Outstanding Delegate

by Zane M. Hoit, Mu Alternate



The Outstanding Delegate at the Sixtieth Anniversary Convention was John E. Daniel of Mu Chapter. This is the highest honor which Theta Tau bestows on an active member; it is awarded at each Convention to the Delegate voted most outstanding by his fellow Delegates.

John worked hard as chairman of the Constitution and Bylaws Committee to make a worthwhile contribution to the

Convention. He began by familiarizing himself with the work of the Constitution and Bylaws Committee before he left for the Convention. Once the Convention began, he worked hard to prepare and present the work of his committee to the Convention. He also helped other committees when their work involved the Constitution and Bylaws.

At the University of Alabama, John has been very active in the operation of Mu Chapter. He has served as Inner Guard, pledge trainer, and Regent.

He has also been active in the College of Engineering, serving on the Engineers' Executive Council. He has been an officer of the student chapter of the American Society of Civil Engineers for the past three years, with his last office being that of president.

He has served as secretary-treasurer of Chi Epsilon, and is a member of Alpha Phi Omega. Just before the Convention he was initiated into Omicron Delta Kappa.

Since the Convention John has received his B.S. degree in civil engineering and has enrolled in law school. His experiences at the Convention have helped the operation of Mu Chapter immeasurably.

It's Twenty-nine Chapters for Theta Tau

The installation at Mississippi State was a highlight of 1964 as Mu Sigma Epsilon became Kappa Beta Chapter of Theta Tau.

by James T. Dixon III, Mu '63

The installation of Kappa Beta Chapter at Mississippi State University on November 21, 1964 brought the number of active Theta Tau Chapters to 29. Mu Sigma Epsilon, newly established local engineering fraternity, was granted a charter by vote of the Executive Council, Chapters, and Alumni Associations.

Mu Sigma Epsilon was founded on April 24, 1963, when Mu Chapter from the University of Alabama presented the idea to 25 students. By the end of the semester, Mu Sigma Epsilon, derived from Mississippi State Engineers, was chosen as the name for the local fraternity and a set of bylaws were drawn up, presented, and adopted by the fraternity.

Upon returning to school in the fall of 1963, Professor Claud J. Irby of the Electrical Engineering Department agreed to serve as sponsor. Shortly thereafter, Mu Sigma Epsilon was recognized by the uni-

versity as a local professional engineering fraternity. Since that time, Mu Sigma Epsilon has participated in Engineering Day, developed a program to be presented at several high schools across Mississippi presenting the advantages of choosing engineering as a profession, and performed other worthwhile services.

Mississippi State University

Mississippi State University was established one and one-half miles east of Starkville in 1877 as a land grant school under the name "The Agriculture and Mechanical College of the State of Mississippi." Engineering was offered as a separate curriculum as early as 1892 with the School of Engineering being organized in 1902. The institution became known as Mississippi State College in 1932 and as Mississippi State University since 1958.

With departments in aerospace engineer-



Charter members of Kappa Beta Chapter. First row: George A. Newbill; Larry L. Alexander; Ray H. Jones, Jr.; Emile A. Nassar; Earl M. Ware; Prof. Claud J. Irby, Jr. Second row: William R. Trask, Jr.; John W. Jordan; Melvin C. Payne, Jr.; James E. Culechi; Patrick F. Yarborough; George R. Lightsey; James K. Upchurch, Jr.



Kappa Beta installation team: Leon M. Vick, Jr., President, North Alabama Alumni Club; Fred E. Armstrong, Jr., Southern Regional Director; John Daniel, Mu Chapter Regent; James T. Dixon III, Secretary, North Alabama Alumni Club; William K. Rey, Grand Regent; Robert E. Pope, Grand Scribe; and William H. Mixon, Mu '65.

ing, agricultural engineering, ceramic engineering, chemical engineering, civil engineering, electrical engineering, geology and mining engineering, industrial engineering, nuclear engineering, mechanical engineering, and metallurgical engineering, the School of Engineering was renamed College of Engineering in 1963. The college is accredited in aerospace engineering, agricultural engineering, civil engineering, electrical engineering, and mechanical engineering.

The Installation

On the afternoon of Saturday, November 21, 1964, a Grand Chapter of Theta Tau was convened in the Student Union Building of Mississippi State University to install Mu Sigma Epsilon as Kappa Beta Chapter of Theta Tau. Members of the installation team were William K. Rey, Grand Regent; Robert E. Pope, Grand Scribe; Fred E. Armstrong, Jr., Southern Regional Director; Leon M. Vick, Jr., and James T. Dixon III, North Alabama Alumni Club; William H. Mixon and John E. Daniel, Mu Chapter.

Initiated as charter members were: Claud J. Irby, Jr.; George A. Newbill; James K. Upchurch, Jr.; Larry L. Alexander; John M. Cockerham; James E. Cuicchi; Ray H. Jones, Jr.; John W. Jordan; George R. Lightsey; Emile A. Nassar; Melvin C. Payne, Jr.; William R. Trask, Jr.; Earl M. Ware; and

Patrick F. Yarborough. Another charter member, Dennis W. Hoorn, could not be present and was initiated on February 4.

Initiated as active members were: C. Neilson S. Buchanan; Don E. Huffman; James C. Jackson; Newton J. Smith, Jr.; Harold W. Taylor, Jr.; William L. Colbert, Jr.; Edward H. Bowker; Charlie A. Randall, Jr.; and Richard C. Shultz.

Installed as officers were: James K. Upchurch, Jr., Regent; Patrick F. Yarborough, Vice Regent; C. Neilson S. Buchanan, Scribe; James E. Cuicchi, Treasurer; and Emile A. Nassar, Corresponding Secretary.

A reception followed by a banquet were held beginning at 7:00 p.m. at the Student Union Building. Grand Regent Rey served as toastmaster. The invocation was given by Reverend Amos Wilson. Greetings from the university were brought by Dr. John K. Bettersworth, vice president for student affairs, and from the College of Engineering by Mr. Henry P. Neal, associate dean. Grand Scribe Pope read greetings from Founders, national officers who could not be present, Past Grand Regents, Alumni Associations, and Chapters. He also introduced the following who brought greetings in person: Fred E. Armstrong, Jr., Southern Regional Director; Leon M. Vick, Jr., President, North Alabama Alumni Club; and John E. Daniel, Regent, Mu Chapter.

A highlight of the evening was the presentation of the charter by Grand Regent Rey to Kappa Beta Chapter Regent James Upchurch, who responded for his Chapter. The response for Mu Sigma Epsilon was made by George Newbill, past president.

The main address of the evening was given by Harry C. Simrall, dean of the College of Engineering of Mississippi State

University. His speech, entitled "The Image of the Professional Engineer," was warmly received by all present. He traced the profession of engineering from its early military-oriented beginning down to the present state of professional engineering, and made some predictions concerning the future of professional engineering. Following his speech, he was given a standing ovation.

Xi Chapter Explores Time Delay

by James C. Winkler, Xi Chapter

A radio wave in space travels 186,000 miles in one second. As man increases his ability to send instruments and men farther and farther into outer space, the seconds needed for radio contact quickly add up. For example, as the United States' *Mariner IV* nears Mars, the television pictures that it takes will require about 3.1 minutes to be received on earth. The increasingly difficult problem of communication and vehicle control in outer space due to this time delay is the concern of Xi Chapter's exhibit for the Tri-Annual Engineering Exposition held on the University of Wisconsin campus April 1-4. Over 20,000 people are expected to visit the Exposition to view more than 150 industrial and student exhibits.

Actual work started on Xi's project in November 1964. Since that time about 500 man-hours have been put in on the project.

The exhibit itself consists of three phases which will present the problems of human reaction to the time delay found in communicating with vehicles and explorers on the moon. The time delay for radio waves between Earth and the moon is about 1.5 seconds one-way.

Visitors to the exhibit will first be shown a slide orientation program explaining how vehicles will be sent to the moon to explore the surface and how they will be controlled from Earth. The next phase of the exhibit will dramatize the time delay concept, as applied to communications, in a "Space Debate." Two members of the audience

will step up onto special podia equipped with microphones and earphones and set against a background of outer space. The two visitors will then attempt to converse with each other while an automatic three-second time delay is put on their conversation. This will be accomplished by using an audio-delayed tape recorder system built entirely by the brothers of Xi Chapter. The audio-delayed recorders are similar to the type used at Bell Laboratories to discover the effects of delayed audio information. The entire "Space Debate" will be carried by loud-speakers for the benefit of other members of the audience. The third phase of the project will be an actual radio-controlled vehicle with a three-second delay. A member of the audience will try to control the vehicle by watching a television monitor showing the vehicle as it travels over a 128-square-foot model of the moon's surface.

The project is nearing completion at this time, three weeks before the Exhibition opens. A great deal of credit for the excellent progress so far must go to the guidance provided by Brothers James Beckwith, project chairman, and David Lucoff. Much expense has been avoided with the full cooperation of the Behavioral Cybernetics Laboratory of the Psychology Department at the university. This laboratory has shown much interest in our project and has donated much equipment with the understanding that they could use the audio-delay tape recorders after the Exposition.

Beta Chapter Makes Winter Carnival History

by Woodrow Wilson, Beta Chapter

In presenting them with their snow statue trophy, the snow statue chairman referred to Beta Chapter as "that Winter Carnival organization." Indeed this compliment depicts the case on the Michigan Tech campus exactly, for this was Theta Tau's eleventh Winter Carnival victory in the past fourteen years. This accomplishment is unprecedented in Carnival history and it is not likely that this feat will be matched in the near future.



Beta Regent Nick Mancinelli, Queen candidate Kathy Bush, and Vice Regent Jim Mitchell display this year's Winter Carnival trophy and pennant (foreground).

It all began back in 1952, when a hotly contested victory over Sigma Rho Fraternity initiated the beginning of a string of eight straight Carnival victories. During these eight years, Beta captured either first, second, or third in the statue competition and then walked away with the overall trophy with victories in the special events. In this time span the Fraternity had retired two traveling trophies to its mantle and was well on its way to retiring its third, when in 1960 the Forestry Club broke the spell in a close contest with Beta. Then in 1961 Beta

bounced back with an overwhelming victory over the field for number nine.

In 1962 a new traveling trophy was purchased by the university and the name of Theta Tau was the first to be etched on its face plate. Then the fire which destroyed the house struck in the spring of 1962 and seemed to jinx the effort in 1963; our men were beaten by the strong showing of Phi Kappa Tau Fraternity. In 1964 Beta lost a real cliff hanger to another organization. In the last event of the Carnival weekend, the dog sled race, they lost by four seconds and as a result were edged out of the overall trophy by a mere three points. Theta Tau had taken a first in the skit review and had made a strong showing in the statue competition; it was a real heart-breaker for the men of Beta but all was not lost for these men still made a very strong showing by placing second in the overall Winter Carnival standings.

In 1964 it was all Theta Tau. This year Beta bounced back with a runaway victory in Carnival with its nearest rival a distant ten points back. The men of Beta did a splendid job of depicting the Winter Carnival theme, "Our American Heritage," and captured a first place in the statue competition. The statue, "The Declaration of Independence," shows an American eagle whose bonds are connected to the English Crown being set free under the arm of guidance of George Washington.

In the skit review it was Theta Tau who captured the hearts of the audience with their humorous sketch of "The Case of the Devilish Dilemma." The skit was unusual because of the unique way the Fraternity used costumes and scenery to emphasize the plot. The skit, including the dancing, effective lighting, and music, captivated the attention of the audience and the judges.

After losing out in the first special event, the skating, it was the boys from Beta who came back strong and swept a first place in



Beta's first place snow statue at Michigan Tech's Winter Carnival had the theme, "Declaration of Independence."

the remaining special events. They triumphed in the snowshoeing and skiing, and ended the weekend with a victory in the dog sled race.

Carnival is not just athletics, nor is it late nights spent in preparation of the snow statue and the skis; it is the biggest social event of the year on the Tech campus. A concert given by Miss Julie London provided Friday night's entertainment for the men of Beta. The closing night of Carnival began with a banquet at the chapter house which was followed by the Sno-Ball and presentation of awards. It was all ended by

a victory party at the house which was attended by all the members and their dates in celebration of a job well done.

Now that it is over, the mantle in the chapter house glitters with the gold of the six new trophies won that weekend. The showing put on by Theta Tau that weekend was brilliant. The rewards reaped from the effort put out completely vanquished the thoughts of all the hard work, late hours, and time spent in preparation for Winter Carnival. It made the members of Beta proud to say that "we are men of Theta Tau!"

Chapters Observe National Engineers' Week

Chapters of Theta Tau participated in various ways in the observance of National Engineers' Week, sponsored in February by the National Society of Professional Engineers. Posters were distributed on their campuses by Epsilon Beta, Lambda, and Phi Chapters.

Epsilon Beta sponsored a pre-party for the Engineers' Ball and put up a display for the Engineering Student-Faculty Council's "Frosh Day."

Members of Delta Beta Chapter gave a dinner for faculty members during the week, and held a party featuring a piano disguised as a computer. The walls and ceiling were decorated with slide rules, draw-

ing instruments, and engineering equipment. Some brothers came in hard hats and coveralls, but most resorted to the more conventional engineering costume of suit and tie.

At Gamma Beta Chapter, Brother John Bauersfeld served as coordination manager for the observance of National Engineers' Week at George Washington University. Members of the Chapter acted as guides and speakers.

Psi Chapter members participated in the biannual Engineering Days held at M.S.M. during Engineers' Week. The event is an open house intended to publicize the school and the high standard of M.S.M. graduates.

Comments from the Central Office

The Convention earlier this winter provided the usual biennial opportunity for taking stock of our progress and for laying future plans. Appropriately named in honor of Brother A. Dexter Hinckley, who had rendered great service as a member of the Executive Council (including two terms as Grand Regent), this Convention also commemorated our Fraternity's Sixtieth Anniversary.

For the first time in forty-one years, at this Convention, Theta Tau was able to look back on a biennium in which four Chapters had been added to the Fraternity. We expect to continue a high degree of effort in the important area of extension. But it is even more important to strengthen our current Chapters. While much progress has been made by some Chapters, a very few continue to experience severe problems and to need much attention.

During the past biennium, the Regional Director program first achieved full development, providing closer liaison and more frequent campus visits than ever could be achieved by members of the Executive Council alone. The great service provided by these brothers and by those who serve as devoted Chapter Advisers is clearly apparent to me through daily involvement with the affairs of the Fraternity. Still other alumni, by demonstrating their concerned interest in a nearby Chapter, can contribute in a very vital way. Some are doing this now, and are enjoying the pleasure which comes from continued contact with succeeding generations of student members.

Others are regularly participating in Theta Tau alumni organizations, or seeking to organize new ones. And many are sup-



porting our Fraternity's progress with their gifts.

Financially, the past biennium saw a great reduction in the current operating deficit which had characterized our operation during each of the two previous biennial periods. In part this was due to the financial support provided by dedicated alumni whose contributions, large and small, helped in a most significant way.

More Chapters are expressing an interest in maintaining a Chapter headquarters, and are taking steps to achieve this worthwhile adjunct to Chapter operation. Here, too, alumni gifts in the form of contributions to the Founders' Memorial Fund are building a fund which will augment the Fraternity's ability to make loans to housing corporations at a low rate of interest for the purpose of providing Chapter headquarters.

Recruitment of members, education of pledges, professional development, and alumni relations and activities remain areas of challenge in which improvement is needed—areas in which combined student-alumnus effort can be most effective.

In a fraternity the size of Theta Tau, the efforts of even one member can result in surprising achievement. If each of us would resolve to address himself to a single challenge currently before our Fraternity, and if each of us would enlist just one other member in a dedicated effort to move the Fraternity forward in this area, the progress in the biennium ahead would be unprecedented. And each participant would know the rich reward which is the knowledge of a task well done.

ROBERT E. POPE

A Look at Alumni Associations

A man long active in his Alumni Association gives a view of the value and trials of this important arm of our Fraternity.

by Richard Lynch, Grand Marshal

When I agreed to write this article about alumni associations, my first thought was, this won't be too difficult since I had been a member of the Detroit Alumni Association from its beginning. It didn't seem to me that we had any serious problems, and that everything moved along fairly well.

When I sat down and started to think back, I realized that this was not completely true. There were problems, some serious, some humorous. Before I relate to you the "how" and "why" of the Detroit Alumni Association (DAA), perhaps it is best if I give a brief outline of the requirements under our Constitution necessary to start an alumni club.

Our Constitution, Article IX, requires that four or more alumni interested in starting a club must submit a request to the Grand Regent applying for a letter of authorization. The club must elect officers, and hold at least one meeting a year. After two years or more of successful operation, a petition may be presented to the Executive Council by not less than seven alumni who have regularly attended club meetings for at least one year prior to the petition. Upon approval of the Executive Council, a charter is issued and the club becomes an association entitled to certain rights under our Constitution. This is a somewhat simplified outline, but it gives the basic information.

As you can see, the starting procedure is not difficult. All it takes are four men who are dedicated and willing to work. From here on it becomes a little more trying. It means finding additional men



who are willing to work, give of their valuable time, and who desire to maintain their ties with Theta Tau Fraternity.

The DAA was fortunate. The many veterans of World War II who formed the backbone of the active when they became the Epsilon Beta Chapter graduated and almost immediately formed the DAC. They in turn became the DAA. I'm proud to say a great many of these men

are still very active today. This fairly well explains the "how." The "why" becomes much more difficult.

What should the club or association do for activities? What should their goals be? This is still a problem with the DAA. There are always numerous approaches and ideas concerning activities and goals.

I believe the basic aim of the DAA is to concentrate on fellowship, or fraternal brotherhood. We do this not by having numerous engineering or professional meetings, but by a relaxed, friendly meeting of people with common interests and goals. Today, the engineer is constantly under pressure to meet the challenge and demands of industry. His professional societies and organizations stress the changes and the new developments in his field of endeavor. The DAA never eliminates the professional aspects of engineering, but does not unduly stress them. I personally feel it is an outlet for the frustrations of today's engineer.

How do we go about this? First, we have a meeting every month at the Epsilon Beta Chapter house. This is preceded by an informal dinner at one of the local restaurants. Most of the time it is the same

group, but very often a new person shows up for the bull session. The meetings do not last long depending on the business at hand. These are followed by poker, bridge games, pool, etc. It is basically a time to relax and enjoy good company.

As a group, our activities are as varied as there are things to do. The main social event of the year is always the Founders' Day Dance, held with the active members of Epsilon Beta Chapter. This will now be expanded with the addition of Iota Beta Chapter at the University of Detroit. In addition, there is the Bridge Club which meets once a month (with wives of course), our Memorial Day picnic, the New Year's Eve party, bowling parties, formal initiations, etc. The activities are endless. From time to time we augment these with a professional meeting.

What about the goals of our organization? I feel the chief goal of the DAA is to maintain lifelong friendships with the many men of Theta Tau. Perhaps this does not seem proper for an alumni association. Most people may say our goal should be to promote the Fraternity or the engineering profession. I feel, that with our goal accomplished, the latter can, and will be performed much more readily. The problems that arise, the duties that must be performed, are handled much better by a group of dedicated friends who know each other as "brothers" than will ever be accomplished by a group of "strangers" with some other goal.

The most serious problem for an alumni association is continuity. There is a tendency to lean on the older members as officers and to avoid association with members younger than yourself. We have not solved it completely, but we have made some progress. New Theta Tau graduates are treated to a dinner by the DAA and invited to join the organization. Instead of the officers coming from the ranks of the older members, we lean towards the younger men. This helps in getting the newer graduates to join, and at the same time the older men are present for guidance if it is required.

The flow of new blood must never be cut off or reduced if an association is to survive.

Does this make our Detroit Alumni Association perfect? No, we are a long way from this. We have shortcomings like every group. Some have been solved, others we are working on, some we tend to ignore. One such shortcoming, which I do not think is unique with us, is the problem of getting alumni from other chapters to join and take an active part in our organization. While there are undoubtedly many members of Theta Tau from other chapters in the Detroit area, we have not been successful in getting them to join. Part of this, I believe, is due to the reluctance of a person to walk into a group of people he does not know. To this date we have had very few visitors, although they are most welcome.

Another problem is our close association with Epsilon Beta Chapter. Since most of our members are from Epsilon Beta, our strongest bond is there. We must try to alter this, especially since we now have Iota Beta Chapter here in the city.

One of the major projects we had as an association was the procuring of a house for the Epsilon Beta Chapter. To do this, we set up a House Corporation which is completely separate from the association as far as operation is concerned. The stockholders are formed of alumni who have signed \$100.00 notes. These people in turn elect a Board of Directors which operates the Corporation. This Corporation has no legal tie to the association, and could have been formed by any group of interested alumni.

With the ever-increasing number of graduates, alumni associations should be playing a much greater part in the growth of Theta Tau. To the many men who do not belong to the one in their area, I urge you to join and support it. To those located in an area where no club or association exists, make the effort to start one. With a strong and effective alumni organization, and with engineers becoming much more prominent in today's world, the future of Theta Tau Fraternity should be bright indeed.



Alumni News



General LeMay Retires as Air Force Chief of Staff

GENERAL CURTIS E. LEMAY, Sigma '29, retired January 31, 1965 as chief of staff of the Air Force. The President presented Brother LeMay a Distinguished Service Medal at the White House, and at Andrews Air Force Base, Maryland, the Air Force held ceremonies marking the close of 35 years of service. On April 3rd he was presented the 1965 Thomas D. White National Defense Award during ceremonies at the Air Force Academy.

Brother LeMay, whose trademark is a

cigar, is noted for blunt speech and determination. He has been referred to as "a living legend" and "the last of an era." The details of his career have been recounted many times (see the Fall 1961 GEAR), but he is perhaps best remembered as commander of the Strategic Air Command for 10 crucial years and as the organizer of the air operations of the famous Berlin Airlift.

Brother LeMay entered the service as a flying cadet in 1928. He pioneered in

flights of the *Flying Fortresses* to South America, over the South Atlantic to Africa, and over the North Atlantic to England. In World War II he organized and trained the 305th Bombardment Group and was commanding general of the 3rd Bombardment Division (England). He led the first "shuttle mission," which originated in England, struck in Germany, and ended in North Africa. In 1944 he was transferred to the Pacific to direct the B-29 bombardment activities of the 20th Bomber Com-

mand in the China-Burma-India Theater. He later commanded the 21st Bomber Command with headquarters on Guam.

The General has not yet disclosed his plans for retirement, but rumors have mentioned numerous job offers. He is writing a book about the Air Force in collaboration with MacKinlay Kantor, which will be published next fall. He should also have time for such interests as auto racing, hunting, and fishing. His family includes his wife and a married daughter.

Charter Members of Engineering Academy

THE ENGINEERING PROFESSION has achieved new prestige with the formation of the National Academy of Engineering on December 11, 1964. Two members of Theta Tau—Dr. Harold K. Work, Theta '25, and Dr. Simon Ramo, Lambda '33—are among the 25 charter members of the Academy.

The Engineering Academy was legally established and organized under the National Academy of Sciences charter from Congress. The National Academy of Engineering will be autonomous and parallel to the NAS. Discussions leading to the NAE began in 1960, with participation by the Engineers Joint Council, the Engineering Foundation, the Engineers' Council for Professional Development, the National Academy of Sciences, and the National Research Council. Brother Work, as director of the Engineering Foundation, was among those most active in promoting the Academy and has been elected its first secretary.



Harold K. Work

Dr. Harold Work, Theta '25, is presently director of the Research Division and associate dean of the School of Engineering and Science at New York University. His previous professional experience includes serving as director of research for Jones and Laughlin Steel Corporation, as a chemical engineer in the Jobbing Division of the Aluminum Company of America, and as a Research Fellow at the Mellon Institute.

Brother Work's numerous professional

activities include serving as executive secretary of the Committee of Twenty-Five to establish the National Academy of Engineering under the auspices of the National Academy of Sciences, and as director of the Engineering Foundation of United Engineering Trustees, Inc. He has served as an officer in the University Corporation for Atmospheric Research, the American Society for Engineering Education (vice president), the American Society for Metals (president), the Industrial Research In-

stitute (chairman), and the R-N Corporation. He is also a member of the American Association for the Advancement of Science, the American Chemical Society, the American Institute of Chemists, the American Institute of Chemical Engineers, the American Institute of Mining, Metallurgical and Petroleum Engineers, the American Society for Testing and Materials, the National Research Council, and the New York Academy of Sciences.

He has been presented the Illig Medal of Columbia University and the Robert W. Hunt Prize of the AIME. Brother Work is a member of Phi Beta Kappa, Phi Lambda Upsilon, Tau Beta Pi, Epsilon Chi, Sigma Xi, and Pi Tau Sigma, all honor societies.

Simon Ramo

Dr. Simon Ramo, Lambda '33, also a member of the Committee of Twenty-Five who became charter members of the NAE, is vice chairman of the board and a director of Thompson Ramo Wooldridge Inc. He was previously executive vice president of the firm.

Brother Ramo's early professional experience included work as head of the Physics Section, Electronics Laboratory, and the Research Laboratory for General Electric Company. In 1946 he joined Hughes Aircraft Company, becoming vice president and director of operations.

In 1953 he was a co-founder of the Ramo-Wooldridge Corporation, which he served as executive vice president and director. He also was president of Space Technology Laboratories, a division of the corporation, and was scientific director of the U.S. Air Force Ballistic Missile Program.

Brother Ramo is a director of the Magna Corporation, Pacific Semiconductors, Inc., Space Technology Laboratories, Inc., and California Institute Associates. He is president of the latter. He is a director, trustee, or officer of numerous civic, educational, scientific, and engineering organizations. His publications include several textbooks and numerous papers, and he holds 25



FABIAN BACHPACH

patents in microwaves, electron optics, guided missiles, and automatic controls.

His memberships include the American Association for the Advancement of Science, Eta Kappa Nu, Phi Kappa Phi, Sigma Pi Sigma, Sigma Xi, and Tau Beta Pi. He is a Fellow of the American Institute of Aeronautics and Astronautics, the American Physical Society, and the Institute of Electrical and Electronics Engineers.

Brother Ramo's awards and honors include the Electronic Achievement Award of the Pacific Region, Institute of Radio Engineers; the Raymond E. Hackett Award for outstanding achievement in the field of electronic science; the International AZA Sam Beber Award; the Paul T. Johns Award of the Arnold Air Society; and the "Man of Hope" Award of the City of Hope. He was the W. Rupert Turnbull Lecturer in 1956, the Steinmetz Memorial Lecturer in 1959, and the Regents Lecturer at the University of California at Los Angeles in 1961. He has received honorary degrees from Case Institute of Technology, the University of Utah, and Union College.

Joe Engle is an "Outstanding Young Man of 1964"

CAPTAIN JOE H. ENGLE, Zeta '55, was honored as one of the Ten Outstanding Young Men of 1964 by the U.S. Junior Chamber of Commerce. The awards were presented at an awards congress in Santa Monica, California on January 15 and 16, 1965. The awards have been presented annually by the Jaycees since 1938.

Brother Engle was selected for his role in the nation's aerodynamic research program. He is the U.S. Air Force's youngest pilot for the X-15 rocket-powered hypersonic aircraft. He is expected to become the world's youngest pilot astronaut within the year. To achieve this rating, he will attain a height of above 50 miles from the earth's surface in controlled flight. The X-15 program provides NASA with information in the fields of hypersonic aerodynamics, heat absorption by a winged-reentry vehicle, reaction controls, human response to weightless flight, and optical degradation.

After graduation from the University of Kansas, Brother Engle entered the Air Force as a second lieutenant. After four years of flying F-100 Super Sabres, he became a test pilot at Edwards Air Force Base, California.



Charles Luckman Heads Famous Architectural Firm

CHARLES LUCKMAN, Kappa '31, is president of the internationally known planning-architectural-engineering firm of Charles Luckman Associates, one of the five largest architectural firms in the world.

Brother Luckman graduated from the School of Architecture at the University of Illinois in 1931, and was licensed to practice architecture. Since there was no building activity in that depression year, he took a "temporary" job as a designer in the advertising department of a large soap company. From this beginning Brother Luckman advanced to become president of the Pepsodent Company at the age of 33, and at the age of 37, president of all American companies of Lever Brothers.

He was named one of the Ten Outstanding Young Men in the U.S., and *Forbes* magazine called him one of the 50 foremost industrialists in the country.

At the peak of this business career, in 1950, Brother Luckman decided to return to architecture. He left Lever Brothers and moved to Los Angeles to form an architectural firm. This firm has won 32 honor awards in design. Projects have included the master plan for the U.S. air and naval bases in Spain, the master plan for the missile launching base at Cape Kennedy, the \$100 million Madison Square Garden Complex in New York City, the Los Angeles World Zoo, and the Manned Spacecraft Center in Houston, Texas.

For his services during and after World War II, France awarded Brother Luckman the Cross of Chevalier—the French Legion of Honor. The Italian Republic honored him with the Star of Solidarity, the highest award bestowed on an American.

He has given much service to higher education, and in 1963 was elected chairman of the Board of Trustees of the California State Colleges; he was re-elected in 1964. The California Council of the American Institute of Architects recently awarded him their Distinguished Service Citation for his architectural services to the California colleges.

Brother Luckman has received honorary degrees from the California College of Arts and Crafts and the University of Miami. He is a licensed architect in 48 states and the District of Columbia, making him the most widely licensed architect in the nation. He was elected to the College of Fellows of the American Institute of Architects in 1963. He is also a member of Tau Beta Pi.

Brother Luckman is a leader in civic and community affairs, serving as a member of the Governor's Commission on Metropolitan Area Problems, as president and chairman



of the board of AID-United Givers, and on many other boards. He has well fulfilled the title voted by his high school classmates —"boy most likely to succeed."

Crawford Heads the Instrument Society of America



WILLIAM A. CRAWFORD, Delta '39, is now serving as president of the Instrument Society of America. He has served the 15,000-member society for 18 years, most recently as president-elect-secretary. He is one of only 25 men who are Fellows of the society.

Brother Crawford is employed as principal instruments engineer in the Design Division for Du Pont in Wilmington, Delaware. He joined the company after graduation from Case Institute of Technology as a plant liaison engineer for construction work. In 1941 he was transferred to Wilmington as a design process engineer.

During World War II he worked on the Manhattan Project at the Hanford, Wash-

ington Works, which Du Pont designed and operated for the Atomic Energy Commission. In 1946 he returned to the Design Division, helped to set up its instrument

section, and in 1953 attained his present position.

Brother Crawford is a member of Tau Beta Pi and Blue Key, honor societies.

Genesco's Chairman is W. Maxey Jarman

W. MAXEY JARMAN, Eta '25, is chairman of Genesco Inc., Nashville, Tennessee. This well-known company, formerly called the General Shoe Corporation, was originally the Jarman Shoe Company. Brother Jarman entered this business with his father in 1924. In connection with this lifelong career, he has served as chairman of the National Shoe Fair, as president of the National Shoe Institute, and in 1943, as chairman of a War Production Board mission to England.

Brother Jarman is a director of S. H. Kress & Company; H. & M. Rayne Co., Ltd., London, England; the Federal Reserve Bank of Atlanta; the National Shoe Manufacturers Association; and Freedoms Foundation, Valley Forge, Pennsylvania. He is a trustee of Greenfield Real Estate Investment Trust, Mutual Life Insurance Company of New York, and the National Jewish Hospital, Denver.

In 1964 he received the Genesco "Superior Achievement Recognition Award," the Tobe Award "for distinguished contribution to American retailing," and was named "National Salesman of the Year" by Sales and Marketing Executives of Nashville, Inc.

An active member of the Baptist Church, Brother Jarman has served as vice president of the Southern Baptist Convention, and as trustee of the Tennessee Baptist Foundation, the Southern Baptist Foundation, Moody Bible Institute, and Moody Institute of Science. He is vice president of the American Bible Society and a trustee of the publication *Christianity Today*.



Other activities have included serving as trustee of George Peabody College for Teachers and as a member of the Tennessee Tax Commission.

Brother Jarman is the author of a devotional book of scripture verses, *O Taste and See*, and of *A Business Man Looks at the Bible*.

In 1957 Brother Jarman was awarded an honorary doctor of laws degree by Stetson University. He is a member of Theta Delta Chi and Pi Delta Epsilon.

ADVERTISING IN THE GEAR has been authorized by the Executive Council and space in the Fall 1965 issue will be available. Advertising rates and requirements are available through the Editor's office.

In Memoriam

WILLIAM O. BINDER, Delta '31, died December 14, 1964 in Niagara Falls, New York. He was internationally known for his work in the development of extra low carbon stainless steels. Brother Binder was director of sales development for the Metals Division of the Union Carbide Corporation. From 1960 to 1963 he was in Geneva, Switzerland as an international consultant for Union Carbide with the Development Department. He held more than 60 U.S. and foreign patents in the fields of stainless steel and other metals. (*Case Alumnus*)

WALTER B. BROWN, Gamma '10, died November 22, 1964 in San Antonio, Texas. Brother Brown, who retired in 1957, was returning to his home in Florida from a vacation in Mexico when he became ill. Following his graduation from the Colorado School of Mines, Brother Brown was chief engineer for Nevada Consolidated Copper Company in Ruth, Nevada; chief engineer for New Cornelia Copper Company in Ajo, Arizona; mining engineer with Nevada Consolidated Copper Company in Ruth, Nevada; assistant general manager, Anglo Chilean Consolidated Nitrate Corporation, New York, New York; assistant superintendent, Weepah Nevada Mining Company, Tonopah, Nevada; senior engineer, Reconstruction Finance Corporation, Washington, D. C.; and industrial engineer, General Services Administration, Washington, D. C. During World War II, Brother Brown worked with the RFC Metals Section and was involved in the Nevada magnesium project as well as the Nicaraguan Nickel Project in Cuba. He is survived by his wife and a son. (*Mines Magazine*)

J. FARNELL CAULFIELD, Lambda '22, died December 30, 1964, at his Los Angeles, California home. Following his graduation from the University of Utah, he joined H. P. Whitney Enterprises. He became mine superintendent for the Hudson Bay Mining and Smelting Company, Flin Flon, Canada in 1932, and 10 years later was named general superintendent of the Hudson Bay Exploration and Development Company. In 1946 he became general manager, and he held that position until he joined Kennecott Copper Corporation in 1951 as general manager of the Utah Copper Division. In 1952 he became assistant general manager of Kennecott's Western Mining Divisions, and was appointed general manager of Western operations in 1953. In 1955 Brother Caulfield was named assistant to a Kennecott vice president in New York. Brother Caulfield is survived by his wife, a son, a brother, and a sister.

WALTER F. CLANCY, Delta '21, died December 7, 1964 in Cleveland. He was Lakewood's "Man of the Year" in 1962. Brother Clancy had retired in 1953 from his automobile dealership, Clancy Motors Inc. He began his career with the Dodge Division of Chrysler Corporation in 1921. He became national truck sales manager and later became city sales manager in Cleveland for Dodge automobiles. For five years prior to 1951, he was

a partner in Canning & Clancy, a firm dealing in automobiles and trucks. Brother Clancy had a life-long interest in sports, especially baseball and football. His efforts in interesting young men in baseball brought him the "Man of the Year" award. He graduated from Baldwin-Wallace College and Case Institute of Technology. During World War II he served with the Army as a member of the Lakeside Hospital Unit. Brother Clancy is survived by his wife, a daughter, a son, and a sister.

THEODORIC B. EDWARDS, Pi '24, a charter member of his Chapter, died September 22, 1964. He had been employed by the U.S. Army Engineer Research and Development Laboratories at Fort Belvoir, Virginia since 1944. Brother Edwards held numerous patents on such items as a self-contained vehicle heater for Arctic use, a remote-controlled fire fighting turret and nozzle, a foam generator, an adjustable foam nozzle, and a vehicle wheel suspension system. (*University of Virginia Alumni News*)

JOHN N. GLIDDEN, Delta '27, died September 17, 1964 in Morristown, New Jersey. He was manager of dealer organization and relations for General Motors Overseas Operations. He had served GM in many overseas locations since he joined the company in 1934, frequently traveling to eastern Mediterranean countries and South America. Brother Glidden joined the Air Force in 1941 and served as an aide to then Lt. Gen. James Doolittle. For a short time he was a civilian consultant to the Chinese government prior to World War II. Brother Glidden was football captain and a swimming, wrestling, and tumbling star at Case. (*Case Alumnus*)

LESTER S. GRANT, Gamma Hor. '99, died August 7, 1964, at La Jolla, California. He was a former professor of mining engineering and dean of faculty at the Colorado School of Mines. Brother Grant's career included serving as engineer and acting superintendent, Isabella Mines Company; superintendent, Murphy & Fry Lease; engineer and assayer, Findley Cons. Mining Company; metallurgist, Inca Mining Company; superintendent, Isabella Mines Company; and manager, Jumper California Gold Mines Company; all prior to his tenure on the faculty of Colorado School of Mines from 1921 to 1927. From 1927 until his retirement in 1949 he was manager of the McElroy Ranch Company, engaged in oil production and the cattle business. He was a director and vice president of the company from 1929 through 1948. He also was a director and vice president of Franco Wyoming Oil Company. Brother Grant was the coinventor of the stopper air drill. He was a member of AIME, AFI, Texas Academy of Science, and the CSM Alumni Association. In 1949 he received the Distinguished Achievement Award of Colorado School of Mines. Brother Grant is survived by his wife, a daughter, three sons, and seven grandchildren. (*Mines Magazine*)

THE GEAR OF THETA TAU

RUSSELL S. HENDERSON, *Zeta '20*, died in September 1963.

GEORGE F. HUPP, *Alpha '33*, died in November 1964 in Edina, Minnesota. He was president and treasurer of Metro Machine & Engineering Corporation. Brother Hupp was a member of the Twin City Tool & Die Association, the National Tool & Die Association, and Masonic organizations. He is survived by his wife and two daughters.

DR. J. JAY JAKOSKY, *Zeta '20*, died September 8, 1964 in Newport Beach, California. He was president of the Electrophysics Corporation and was a well-known scientist and engineer. Brother Jakosky held degrees from the University of Kansas and the University of Pittsburgh, and the Sc.D. from the University of Arizona. In 1929 he organized International Geophysics, Inc. and the Jakosky Company, a holding company. From 1940 to 1945, Brother Jakosky was dean of the School of Engineering and Architecture and director of industrial research at the University of Kansas. He was director of industrial research at the University of Southern California in 1945 and 1946. Brother Jakosky held more than 150 U.S. and foreign patents resulting from research and development work in geophysics, exploration, industrial processes, and electronics. He was a licensed professional engineer in mechanical, electrical, and petroleum engineering in the State of California. Brother Jakosky was a member of Delta Upsilon, Sigma Xi, Tau Beta Pi, Sigma Tau Epsilon, Sigma Tau, Sigma Gamma Epsilon, and Psi Tau Sigma. He was a past president of the Society of Exploration Geophysicists, and was a member of the AAPG, American Radio Relay League and the U.S. Power Squadrons. He authored the standard text, *Exploration Geophysics*, and numerous professional papers. Brother Jakosky was listed in *Who's Who in America*, *World Who's Who in Commerce and Industry*, *Leaders in American Science*, and *American Men of Science*. He is survived by his wife, a son, a grandson, and four brothers.

CARL H. KNAEBEL, *Beta '23*, died October 5, 1964.

CHARLES LAKE LUCAL, *Sigma '32*, died September 8, 1964.

DR. RICHARD N. NELSON, *Epsilon '19*, died August 3, 1964 in Bronxville, New York. He had retired in 1962 as chief development geologist of American Overseas Petroleum Ltd. Brother Nelson received his A.B. degree from the University of Oregon and his Ph.D. in geology from the University of California in 1923. He joined Standard Oil Company of California in that year, and remained with that company and its affiliates for his entire career. His early assignments took him to Alaska, the Netherlands East Indies, Venezuela, and back to California. By 1934 Brother Nelson was in charge of all the company's geological exploration. He was in Holland when Germany occupied the country in 1940. Three months later he returned to the U.S. through Switzerland, France, Spain, and Portugal. At the time of the attack on Pearl Harbor he was in Java, where he remained until two weeks before the Japanese landed in 1942. As the end

of the war approached in 1945, he went to Australia to prepare for the resumption of oil activities in the East Indies, a project which finally began to pay off in 1952. Brother Nelson was made chief geologist in the Producing Division of California Texas Oil Company in 1952. In 1957 he assumed the position he held at the time of his retirement. His memberships included the American Association of Petroleum Geologists, the American Association for the Advancement of Science, and Sigma Xi. He was among the organizers of the American-Indonesian Chamber of Commerce. Brother Nelson is survived by his wife, two daughters, two grandsons, and a sister. (From an AAPG Memorial)

JAY W. OWINGS, *Delta '27*, died June 3, 1964 in St. Petersburg, Florida. He had retired in 1962 after 10 years as manager of Republic Steel's Pipe Division in Cleveland. Brother Owings began his career in the steel industry as a metallurgist with the Youngstown Sheet and Tube Company. He was an expert on steel pipes and spent much of his career in the southwestern U.S. oil fields, primarily in Texas and Arkansas. (Case *Alumnus*)

JOHN A. RICHARDS, *Epsilon '19*, died July 29, 1964 in Brisbane, Australia, while he and his wife were on an around-the-world pleasure trip. A mining engineer, he had retired in 1953 in Tucson, Arizona. Brother Richards lived in Alaska as a child, where his father was a mine manager. His education at the University of California at Berkeley was interrupted by service in World War I, but he graduated in 1919. After graduation, he returned to Alaska to work for Kennecott Copper Corporation. In 1923 he accepted a job as chief engineer with Consolidated Coppermines Corporation at Kimberley, Nevada, and soon became general superintendent. In 1940 Brother Richards moved to Tiger, Arizona, where he became vice president and general manager of the St. Anthony Mining and Development Company Ltd. He was a former chairman of the Arizona Section of the AIME, and was a member of the Mining and Metallurgical Society of America. Brother Richards is survived by his wife and a nephew whom he and his wife reared and educated.

JAMES C. RIST, *Delta '62*, died August 3, 1964, in an accident while at work on an underground acid neutralization at the Electric Storage Battery Company's plant in Kansas City, Missouri. His home was in Cleveland.

HARVARD S. ROCKWELL, *Alpha '14*, died May 9, 1964 in Minneapolis, Minnesota. He was also a member of Sigma Alpha Epsilon.

PAUL F. SWANSON, *Zeta '27*, died September 15, 1963.

WAYNE D. TURPIN, *Lambda '30*, died January 18, 1965 in Salt Lake City. He was founder and president of Industrial Insulations Company. After graduation from the University of Utah, he moved to Deming, New Mexico, where he was employed by the Chino Mines Division of the Nevada Consolidated. He returned to Salt Lake City in 1934,

and was a cofounder of Pace Turpin Company that year. He founded Industrial Insulations in 1956 and Turpin's, Inc. in 1958. Brother Turpin was a past president of the Intermountain Alumni Association of Theta Tau, was president of the Utah Society of Professional Engineers in 1954 and 1955, and was chairman of the Utah Section, ASME. He was also a member of Tau Beta Pi. Brother Turpin is survived by his wife, a son, Michael W. Turpin, Lambda '61; a daughter; and five grandchildren.

RALPH T. UNKEFER, *Delta* '25, died July 11, 1964. He was president of Unkefer Brothers Construction Company in Philadelphia, Pennsylvania. Brother Unkefer was active in civic and educational programs and was a former officer of General Building Contractors Association. He was also a member of Beta Theta Pi. (Case *Alumnus*)

JOSEPH V. VERMILLION, *Delta* '43, died October 18, 1964. He was president of Hallmark Management Inc., which operates the Cleveland plant of the U.S. Chemical Corporation. He was a former

vice president of manufacturing for the Gerson Stewart Corporation. Brother Vermillion was also a member of Beta Theta Pi. (Case *Alumnus*)

RALPH B. WIGGINS, *Beta* '14, died August 12, 1964 in St. Petersburg, Florida.

HAROLD E. WOODLIEF, *Beta* '30, died August 14, 1964 in San Gabriel, California.

LEE K. WORTH, *Gammas* '77, died September 24, 1964 in Tulsa, Oklahoma. He had retired in 1958 as assistant to the vice president of production for Pan American Petroleum Corporation. Brother Worth served two years in the Navy after his graduation from the Colorado School of Mines. He began his career in the oil industry as a roustabout for Midwest Refining Company in Wyoming. In 1921 the company was acquired by Standard Oil Company (Indiana), and the rest of his career was spent with Pan American and its related companies. He held numerous management positions in Greggton, San Antonio, and Houston before going to Tulsa. Brother Worth is survived by his wife. (*Mines Magazine*)

Alumni Notes

ALPHA CHAPTER

C. W. BRITZUS, '33, has been nominated as vice president for the North Central Region of the NSPE.

DR. ROBERT B. GILBUTH, '35, director of the NASA Manned Spacecraft Center near Houston, was the author of "The Making of an Astronaut" in the January 1965 issue of *National Geographic*.

GALVIN D. LOYD, '50, is a project metallurgist for the Caterpillar Tractor Company, Peoria, Illinois.

JULIO CORDERO, '51, is a senior staff scientist for AVCO, Wilmington, Massachusetts. He lives in Malden, Massachusetts.

BEN B. FLOOD, '59, is general service manager for Dean-Hanes Machinery Company, Kansas City, Missouri. He lives in Overland Park, Kansas.

PHILIP W. SCHAAKER, '60, joined Fairchild Instrumentation, Palo Alto, California, in February 1964 as an international marketing engineer. He is concerned with global marketing of solid-state instrumentation and test systems, with colleagues in Tokyo, Hong Kong, London, Brussels, Paris, etc.

L. F. FELISHEN, '62, has completed the basic officer course at Fort Belvoir, Virginia, and is now a second lieutenant assigned to the U.S. Army Tank Automotive Center. He is doing research in vehicle mobility at the Land Locomotion Laboratory. Brother Feldisen was married on June 28, 1964.

BETA CHAPTER

DR. J. R. VAN PELT, '23, has resigned as president of Michigan Tech, but will continue to serve the university as chancellor until 1966.

BRIG. GENERAL W. C. GRIBBLE, JR., '38, is director of research and development, U.S. Army Materiel Command, Washington, D. C.

I/LT. JOHN W. IRWIN, '39, has graduated from the Squadron Officer School at the Air University, Maxwell AFB, Alabama. He has been reassigned to Pease AFB, New Hampshire.

W. DON JACOBS, JR., '60, is an assistant engineer for the Bethlehem Steel Corporation in Baltimore, Maryland.

GAMMA CHAPTER

GEORGE W. MITCHELL, '23, has written a paper, "An Investigation of Pleistocene Lake Jalisco," for presentation to La Sociedad Mexicana de Geografica Estadistica. Brother Mitchell is retired in Ajijic, Jalisco, Mexico.

BAILEY E. PRICE, '23, has been promoted to vice president of marketing for National Electric Coil Division of McGraw-Edison Company, Columbus, Ohio. He was formerly manager of sales and advertising.

M. H. ROBINEAU, '23, is president and general manager of the Frontier Refining Company, Denver, Colorado.

THE GEAR OF THETA TAU

MONTGOMERY R. BUDD, '24, has retired as director of advertising for Hercules Powder Company in Wilmington, Delaware. Before joining Hercules in 1929, he was director of publications and alumni secretary at Colorado School of Mines and was a technical editor for General Electric Company. Brother Budd is a member of the AIME, AAPG, Society of Exploration Geologists, Society of Exploration Geophysicists, Entomological Society of America, the Association of Industrial Advertisers, International Advertising Association, and other associations. In 1955 he was a member of the committee awarded the "Silver Anvil" for outstanding public relations work by the American Public Relations Association, and in 1961 he received the "Silver Advertising Award" of the Advertising Club of Wilmington. In 1962 Brother Budd was one of ten leaders cited as a "Partner in 4-H" by the Secretary of Agriculture.

ELMER E. LINBURG, '24, is vice president of Richmond Gas Corporation, Richmond, Indiana.

VERNON L. MATTHEWSON, '26, is vice president and technical advisor to the president of Kerr-McGee Oil Industries, Inc.

THEODORE F. ADAMS, '29, is project manager for Brown & Root Inc. in Denver, Colorado.

CHARLES F. BONNETT, '31, is assistant general manager of the Building Products Division, American Cyanamid Company, Wakefield, Massachusetts.

J. M. (MARK) GARDNER, '33, has been elected president of Zapata Off-Shore Company of Houston, Texas. Since 1951 he had been vice president of Delta Drilling Company and vice president and director of Delta Marine Drilling Company. Brother Gardner had previously been employed by Phillips Petroleum Company, Loffland Brothers Company, and IDECO, a division of Dresser Industries. He served with the Corps of Engineers in World War II.

JOHN E. HATCH, '36, is a quality assurance superintendent, Alcoa-Warrick Works, Newburgh, Indiana.

GARY W. HUBBARD, '41, is an attorney at law in Denver, Colorado.

ARTHUR G. WOOD, '41, is a sales and service engineer for the Idealite Company in Denver.

GEORGE A. KIERSCHE, '42, has returned to the Geology Department at Cornell University after a year in Vienna on a Senior NSF Fellowship. During the year he lectured at a number of universities in Europe.

R. T. REITHMEYER, '42, is a sales engineer for Ingersoll Rand Company in Phoenix, Arizona.

TED P. STOCKMAR, '43, is a partner in the Denver law firm of Holme, Roberts, More & Owen. Most of his practice is related to natural resources law. He is presently a member of the State of Colorado Governor's Oil Shale Advisory Committee.

THOMAS W. ROLLINS, '53, has been appointed manager of the Southeast Exploration Division for Shell Oil Company. He was previously manager in Shell's Abilene, Texas office.

RICHARD O. DIMIT, '54, is general production superintendent for Development Services Corporation in Denver.

CHARLES R. THREWEIT, '57, is district petroleum engineer for the Pure Oil Company in Olney, Illinois.

OLEN D. WHITESCARVER, '58, is a petroleum engineer for the Pure Oil Company in Lafayette, Louisiana.

JOHN T. CHANDLER, '59, is division petroleum engineer for Ashland Oil & Refining Company, Houston, Texas.

R. M. SWERDFEGER, '59, is a mining engineer for Idarado Mining Company, Telluride, Colorado.

GUN SLANOVICH, '60, is a civil engineer with the U.S. Bureau of Reclamation, Pueblo, Colorado.

DAVID H. STRANDBERG, '61, is an associate engineer in the Marketing Operations Division of Standard Oil Company of California. He lives in Pleasant Hill, California.

VINCENT TEKONE, '61, has completed his Army service and has joined Shell Oil Company as an exploration engineer in Abilene, Texas.

WILLIAM G. FLENNER, '62, received the M.B.A. degree from Harvard University in June 1964.

WILLIAM A. HENRY, '62, received the M.B.A. degree from Harvard University at the June 1964 commencement.

DONALD A. YUNKER, '62, received his M.B.A. degree in finance from the University of Southern California in June 1964. He was chosen as the honorary member from USC of the Society of Financial Analysts. In July Brother Yunker married Miss Margo Metzler. They are now in Taft, California, where he is employed as a petroleum engineer by Standard Oil Company of California.

ROBERT D. COALE, '63, is assigned to explosive ordnance disposal with the U.S. Army, Sierra Army Depot in California.

ROBERT P. SULTZ III, '63, is an engineer for the Trane Company, Tampa, Florida.

CLARK L. WOLLENWEHER II, '63, is a research technician on molybdenum oxide for Climax Molybdenum Company, Climax, Colorado. He is presently serving in the Corps of Engineers.

ACCURY J. ZARCONI, '63, is a graduate student at Illinois Institute of Technology in Chicago.

ROBERT F. CHRISTIE, JR., '64, is a graduate student at the University of Michigan.

DARYL C. DICKERHOOF, '64, is an engineer with Shell Oil Company in Anacortes, Washington.

DELTA CHAPTER

A group of Delta alumni of class years 1910 through 1927 have met annually in September for the past seven years. This year the group made a contribution to the Case Fund in honor of Theta Tau. Those attending this year were CARL H. GANZENMUELLER, '17; HERBERT G. HANSCOTT, '18; WALTER R. HOFFMAN, '18; ROBERT C. MOX, '18; GRAY L. CHENEY, '19; GEORGE M. LAHER, '19; GEORGE P. BINDER, '20; ALAN J. DIEMER, '20; WELBY E. GILLETTE, '20; HAROLD K. LAHY, '20; RUTYARD E. LAHY, '21; PAUL M. SAVAGE, '22; STEPHEN E. TRACEY, '22; EDWARD J. WEINER, '22; HERBERT A. WICKS, '22; GEORGE C. GRAF, '23; DONALD V. HAMPTON, '23; LAWRENCE E. TOMPKINS, '23; PAUL F. PFAU, '24; WILLIAM F. BILLINGSLEY, '25; and THOMAS M. CHAPMAN, '27. Brothers Savage and Wicks were chairmen for the meeting.

LLOYD A. COLLIER, '14, is retired and living in Santa Ana, California. He formerly was with Alcoa.

DR. GERALD COVER, '24, retired from the Case faculty in September and was named professor emeritus of metallurgy. He simultaneously became vice president of the General Metals Powder Company, Akron, Ohio, which he has served as a consultant for the past 20 years. Brother Cover joined the Case faculty in 1930. During World War II he did research for the government, and he has had industrial experience with the Youngstown Sheet and Tube Company, Weirton Steel, and the Battelle Memorial Institute.

WILLIAM P. VON BEHREN, '25, is manager for advance development in the Housewares Division of General Electric Company, Bridgeport, Connecticut.

ROGER R. WILSON, '30, is owner of Roger R. Wilson, Consulting Industrial Engineers, in San Gabriel, California.

EARL L. H. BASTIAN, '31, is a senior engineer, manufacturing, for Shell Oil Company in Chicago.

WALLACE R. PERROSS, '31, chairman of the board of Emerson Electric Company, St. Louis, Missouri, was pictured in the March 1, 1965 issue of *Forbes*.

JOHN B. PARKER, '36, is division sales manager for Southern California Edison Company in Visalia, California.

RICHARD A. ENGELHARDT, '38, is a staff engineer for the Martin Company in Baltimore, Maryland.

GORDON F. MARBLEY, '38, is a sales engineer for Babcock & Wilcox Company in Chicago.

DR. ROBERT S. SHANKLAND, '29, Ambrose Swasey Professor of Physics at Case, was honored recently when the Physics Lecture Hall was named in his honor. The ceremonies were held in Rockefeller Physics Building, with brief talks by Case President T. Keith Glennan and Dr. Frederick Reines, head of the Physics Department. During the ceremonies



a portrait of Brother Shankland by Edith Stevenson Wright was unveiled. Brother Shankland joined the Case faculty in 1930 and was formerly chairman of the Department of Physics.

WILLIAM G. WINNSLOW, '39, has been appointed general manager of Aullon Ramco and Productos Thompson de Mexico, both Mexico-based subsidiaries of Thompson Ramo Wooldridge Inc. He will be in charge of all of TRW's activities in Mexico. Brother Winslow has lived in Sao Paulo, Brazil, for the past 20 years, where he was president of Falk do Brasil, a subsidiary of the Falk Corporation of Milwaukee, Wisconsin. He is a member of the American Society for Metals, Rotary International, Sigma Xi, Tau Beta Pi, Phi Theta, and Phi Delta Theta.

WILLIAM R. HECKMAN, '41, is now director of marketing at the Clark Controller Company, a subsidiary of A. O. Smith. He has been with Clark Controller for the past 18 years, and was formerly manager of the Standard Products Division.

HOWARD E. ROTH, '45, has been elected vice president, engineering, at the Horsburgh & Scott Company, Cleveland. He was previously chief engineer for the company. Brother Roth is a member of the Cleveland Engineering Society, the Association of Iron & Steel Engineers, and a number of other engineering organizations.

JAMES A. CONANT, '46, vice president of Vogt and Conant Company, Cleveland, is the new alumni president of Case Institute.

WILLIAM L. GRIFFITH, '50, has been elected president of the H & R Manufacturing Company, Cleveland. He is also vice president and a director of Walltools Inc. Brother Griffith is a director of the Cleveland Salesman's Club and the Euclid Chamber of Commerce, and has served on the Small Arms Committee of the American Ordnance Association.

(continued on page 30)

ONE OF THE SURPRISING and thrilling moments of Theta Tau's Sixtieth Anniversary week came when our name appeared in the "Steve Canyon" comic strip. Many of our members saw it when it appeared on October 19, 1964. Milton Caniff, the creator of Steve Canyon, has presented the autographed original of the strip to Theta Tau for permanent display.

Mr. Caniff is a member of Sigma Chi and has done much to promote the fraternity system. His association with Theta Tau comes through his lifelong friendship with General Curtis E. LeMay, Sigma '29, which began during their student days at Ohio State. [See page 17 for a story on Brother LeMay's retirement as Air Force Chief of Staff.]



Contributors to Theta Tau Progress

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

Theodore F. Adams, Gamma '29
Chester A. Allen, Epsilon '13
W. M. Ashley, Iota '54
Thomas L. Bailey, Epsilon '21
Earl L. H. Bastian, Delta '31
Jesse L. Bennett, Epsilon '20
Charles F. Bonnes, Gamma '31
William W. Brehm, Zeta '23
Edmond B. Buster, Epsilon '40
John T. Chandler, Gamma '59
Donald W. Christman, Phi '42
Robert B. Clelland, Chi '49
Eliot Cohen, Gamma Beta '63
George M. Collins, Epsilon '11
David W. Crozer, Chi '66
Richard O. Dinitz, Gamma '54
Bruce G. Eaton, Kappa '30
Clarence H. Elder, Kappa '25
Armin F. Fick, Iota '41
Edward D. Finch, Delta Beta '53
Harley L. Freeman, Delta '17
William F. Gerdes, Jr., Kappa '26
Kitt E. Gilliland, Gamma Beta '61
Charles M. Glasgow, Gamma '10
Gordon I. Gould, Epsilon '31
C. Richard Gowin, Delta Beta '84
E. Clinton Griggs, Delta '20

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Daniel M. House, Rho '33
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T. W. Hunt, Iota '33
George R. Johnson, Kappa '38
Andrew L. Jones, Delta '24
David Jones, Psi '35
Ira K. Jones, Gamma Beta '40
Richard F. Julius, Gamma Beta '52
M. F. Kiachif, Theta '43
Frank A. Krentz, Chi '58
Robert S. Kulp, Mu '55
William M. Lewis, Founder, Gamma '09
Elmer E. Linburg, Gamma '24
J. Harold Link, Gamma Beta '40
Edwin W. Logan, Iota '37
O. "Cook" Loughheed, Phi '46
Edwin G. Machin, Iota '22
Murry Maisel, Mu '46
Kurt Masseller, Theta '36
William H. Mayo, Omicron '46
Richard R. McGee, Zeta '21
Richard C. Meyer, Xi '52
Eugene B. Miller, Kappa '27
Louis E. Mohr, Kappa '23
Robert A. Moore, Mu '54
Walter Wiley Morris, III, Rho '82
Roland E. Norris, Sigma '60

From a guy who couldn't pass Long Division

Cody M. / Golden Calf - 14 Feb 1966



John Ekern Ott, Kappa '17
 Ross I. Parker, Zeta '12
 John E. Parsons, Gamma Beta '38
 William L. Patterson, Zeta '27
 James F. Petrik, Omicron '42
 K. W. Powers, Gamma '25
 H. Douglas Prezler, Omega '60
 Howell Reece, Kappa '20
 R. T. Bethmeyer, Gamma '42
 John W. Richardson, Upsilon '29
 James H. Rives, Jr., Mu '53
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 M. H. Robineau, Gamma '23
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 John M. Rogers, Epsilon '21
 George L. Sansbury, Upsilon '37
 Stanley A. Schack, Omega '50

Irvin H. Schick, Gamma Beta '58
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 Donald G. Schmidt, Iota '48
 Walter Thomas Smith, Mu '35
 Donald D. Snively, Theta '43
 Glenn Staley, Iota '44
 William C. Stapleton, Jr., Mu '49
 John A. Trotter, Jr., Zeta '62
 Edward G. Underhill, Theta '36
 William Vermeulen, Theta '40
 Cliff Vineyard, Upsilon '53
 William P. Von Behren, Delta '25
 Harold R. Wampler, Iota '41
 Roger R. Wilson, Delta '30
 George D. Winans, Psi '42
 James Hoyt Wingard, Mu '22
 Arthur C. Wood, Gamma '41
 Felix Edgar Wormser, Theta '16
 Elton A. Youngberg, Psi '36

Founders' Memorial Fund Donors

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

William J. Ellenberger, Gamma Beta '30
 James M. Fawcett, Upsilon '60
 George L. Jackson, Phi '26
 Paul F. Morgan, Omicron '60

John R. Parker, Delta '36
 William C. Stapleton, Jr., Mu '49
 Lester C. Thomas, Gamma '12
 Elwin L. Vinal, Founder, Alpha '07, as a memorial honoring:
 Grace T. Vinal, his wife;
 Erich J. Schrader, Founder; and
 E. Ralph Edgerton, Alpha No. 3.
 Elton A. Youngberg, Psi '36.

THE GEAR OF THETA TAU

MAJOR GERALD J. WINCHELL, '51, has been decorated with the second oak leaf cluster to the U.S. Air Force Commendation Medal at Maxwell AFB, Alabama. He was awarded the medal for meritorious service as a missile combat crew commander at Vandenberg AFB, California. Brother Winchell is now a student at the Air Command and Staff College at Maxwell.

ROBERT H. FOXALL, '52, married Miss Wanda Lee Ramsey on December 5, 1964, in Warten, Ohio. Mrs. Foxall was formerly receptionist at McKay Machine Company, Youngstown, where he is employed as a sales engineer for Federal Resistance Welding Equipment.

ROBERT C. KAUFFELD, '53, is a technical representative for E. I. du Pont de Nemours & Company, Wilmington, Delaware.

J. P. SCHMIDT, '53, is a metallurgical engineer and lab supervisor for Allied Metal Treating, Racine, Wisconsin.

EPSILON CHAPTER

GEORGE M. COLLINS, '11, is trustee of the James Campbell Estate in Kaula, Hawaii.

BERNARD T. BOCCA, '15, has retired as chairman of the board of the Pacific Vegetable Oil Corporation, San Francisco.

F. GEORGE TRENCHEER, '20, retired in 1963 from Hercules Powder Company. He is now doing explosive consulting work, and returned in December from ten months away on a job in Australia and on around the world. He lives in Oakland, California.

THOMAS L. BAILEY, '21, is a consulting geologist in Ventura, California.

GORDON I. GOULD, '31, is owner of Gordon I. Gould & Company, mining engineers specializing in mercury. He lives in San Francisco.

HENRY G. JONES, '31, retired in 1960 as chief electronics engineer at the U.S. Naval Repair Facility in San Diego.

A. P. BOWIE, '32, is employed by Central-Del Rio Oils Ltd. as manager of the Weyburn Unit in Saskatchewan—one of North America's largest oil field water injection schemes.

E. B. BUSTER, '40, is West Coast vice president of the Townsend Company. He lives in Santa Ana, California.

BRUCE H. HELLIER, '42, is a petroleum engineer for Standard Oil Company of California in Taft, California.

JAMES P. MORGAN, '42, is professor of geology at Louisiana State University, Baton Rouge.

WARREN B. SCOREY, '42, is a consulting geologist active in petroleum. He lives in Golden, Colorado.

C. EDWARD PAUSA, '53, is now resident general manager of Semiconductor Ltd., a Fairchild Camera and Instrument subsidiary, in Hong Kong, B.C.C. He was formerly plant manager of Fairchild Semiconductor's South Portland, Maine, Transistor Plant.

ROGER A. LOWE, '56, is a senior project engineer for Dames & Moore, San Francisco.

EDWARD R. MILLER, '58, is employed by the California State Department of General Services, Department of Land Acquisition, as an associate land agent. He is a captain in the USAR, and lives in Sacramento.

CAPT. JAMES A. TAYLOR, '59, has completed the Air Force special training course for combat aircrew members at Castle AFB, California. He has been reassigned to a unit of SAC at Plattsburgh AFB, New York.

ZETA CHAPTER

RICHARD R. MCGEE, '21, retired June 1, 1964 as an application engineer, Circuit Protective Devices Department, General Electric Company. He is now a sales representative for Globe Travel Service in New Britain, Connecticut.

WALDO G. BOWMAN, '23, is now publisher of *Engineering News-Record and Construction Methods & Equipment*, McGraw-Hill publications.

WILLIAM W. BREHM, '23, is a design engineer for the Kerise Corporation, Hutchinson, Kansas.

STANLEY LEARNED, '24, president of Phillips Petroleum Company, was pictured on the cover of the *Forbes* February 1, 1965 issue.

CHARLES W. HUBBELL, '26, is now manager of Phillips Petroleum Company's engineering department.

WILLIAM L. PATTERSON, '27, is a partner in Black & Veatch Consulting Engineers of Kansas City. He lives in Prairie Village, Kansas.

FRANK I. BAXTER, '29, is a marketing engineer for Panhandle Eastern Pipe Line Company of Kansas City. He lives in Shawnee Mission, Kansas.

ELMER H. RUSH, '29, is a senior engineer in the Pipe Line Department of Shell Oil Company in Los Angeles.

DR. JOHN S. MCNOWN, Hon. '36, has resigned his position as dean of the University of Kansas School of Engineering and Architecture, effective July 1. He will return to full-time teaching and research after a sabbatical leave.

PHIL D. PIATT, '55, is employed by Finney & Turnipseed Consulting Engineers in Topeka, Kansas.

KARL A. DAVENPORT, '56, is district sales manager for Consolidated Electrodynamics Corporation in Albuquerque, New Mexico. He has been with CEC since April 1962.

KERIN L. DRYDEN, '58, is employed by NASA's Goddard Space Flight Center in Greenbelt, Maryland.

C. ROBERT FRANKLIN, '61, is the father of a daughter, Jill Suzanne, born February 20, 1965 in St. Joseph, Missouri. The family also includes a son, Jeff.

THETA CHAPTER

FELIX E. WORMSER, '16, a consulting mining engineer, was the Society of Mining Engineers delegate to the eighth Commonwealth Mining & Metallurgical Congress in Australia and New Zealand in February.

T. EMERY JONES, '30, president and treasurer of the Precision Welder & Flexopress Corporation, Cincinnati, Ohio, and of Precision Welder & Flexopress (Canada) Ltd., has been elected president of the American Welding Society. He has been active in the resistance welding industry for 34 years, and founded the Precision Welder & Machine Company in 1945. Brother Jones has been president of the Resistance Welder Manufacturers' Association, and has held numerous positions in the American Welding Society. He was given its Meritorious Certificate Award in 1958.

W. E. STRINGER, '33, is division engineer for the Clinton Corn Processing Company, Clinton, Iowa.

KURT MASSFELLER, '36, is design project manager for E. I. du Pont de Nemours & Company, Wilmington, Delaware.

CHARLES V. O. HUGHES, JR., '37, is manager of the Florida Mining Division of VC Chemical Company, a division of Socony Mobil. He lives in Nichols, Florida.

WILLIAM VERMEULEN, '40, is manager-engineering of the Accessory Equipment Department of General Electric Company, Bridgeport, Connecticut.

H. G. BENIS, '43, is an engineer with General Electric Company in Philadelphia.

M. F. KIACHEF, '43, is a research supervisor for Du Pont in Wilmington, Delaware. He is the father of two children.

DONALD D. SNAVELY, '43, is regional supervisor for H. H. Robertson Company in Pittsburgh, Pennsylvania.

DAVID M. RICHMAN, '54, is a chemist with the U.S. Atomic Energy Commission, Washington, D. C. He lives in Silver Spring, Maryland.

JOHN B. CAMPBELL, '55, is manager, system analysis

techniques for General Electric Company in Bethesda, Maryland.

STANLEY D. WEBBER, '57, works for Cleanse in Summit, New Jersey. He is the father of three sons—Ned, five, Douglas, three, and infant Seth Michael.

PAUL KENDE, '63, began work with the Du Pont Company's Engineering Physics Laboratory in Wilmington, Delaware, in March.

IOTA CHAPTER

LOUIS A. TURNBULL, '16, has retired as chief of the Division of International Activities in the Bureau of Mines in Washington, D. C. On February 5 he was awarded the Department of Interior's Distinguished Service Award, the department's highest honor. Brother Turnbull is now representing the Paul Weir Company of Chicago, consulting mining engineers and geologists.

PROF. SAMUEL H. LLOYD, '21, received the Alumni Association's Certificate of Merit during the Homecoming Convocation of the University of Missouri at Rolla.

COL. EDWIN G. MACHIN (USAR Ret.), '22, is general superintendent for J. D. Barter Construction Company, Inc., Harrisburg, Illinois.

T. W. HUNT, '33, is a civil engineer for the Portland Cement Association, Chicago, Illinois.

GEORGE A. HALE, '34, is owner of Marine Inspection Engineers, Skokie, Illinois.

LEO J. SULLENTRUP, '34, is general superintendent of construction for S. G. Hayes & Company, Chicago.

DONNELL W. DUTTON, '35, is a professor in the School of Aerospace Engineering, Georgia Institute of Technology at Atlanta.

EDWIN W. LOGAN, '37, is works manager for Med-Science Electronics, St. Louis, Missouri.

JOHN A. SHORT, '38, has retired from the U. S. Department of Agriculture. He has also served with the U. S. Army Engineers, U. S. Department of Interior, the State of Missouri, and the President's Water Resources Commission. He was a member of the United States Study Commission, Southeast River Basins, and was a member and past chairman of the Arkansas-White-Red Basins Inter-Agency Committee. Brother Short and his wife live in Tulsa, Oklahoma.

HAROLD B. WAMPLER, '41, is plant manager for American Zinc Company of Illinois in Dumas, Texas.

GLENN STALEY, '44, is a highway construction engineer with the Illinois Division of Highways in Carbondale, Illinois.

THE GEAR OF THETA TAU

ROBERT E. HACKMANN, '48, has been appointed manager of the Commercial and Industrial Power Sales Division of the Sales Department of Union Electric Company. He was formerly manager of the East St. Louis District. Brother Hackmann is a past president of the East St. Louis Chamber of Commerce and was selected as East St. Louis Junior Chamber of Commerce Man of the Year in 1960. He was chairman of the East St. Louis United Fund Drive in 1960 and was chosen United Fund Man of the Year in 1963.

DONALD G. SCHMIDT, '48, is a metallurgical engineer with H. Kramer and Company in Chicago.

ROBERT E. VANSANT, '51, received the Western Chapter, Missouri Society of Professional Engineers' "Young Engineer of the Month" award in October. He is employed by Black & Veatch Consulting Engineers as a specifications writer and is attending law school at the University of Missouri at Kansas City. Brother Vansant is a member of numerous engineering and civic organizations.

ROBERT L. ZANE, '51, is sales manager for Deen-Hanes Machinery Company in Kansas City, Missouri.

W. M. ASHLEY, '54, is a consulting petroleum engineer in Casey, Illinois.

WILLIAM L. HALLERBERG, '62, is a project engineer for Union Carbide Company, Kokomo, Indiana.

LT. WALTER MUELLER, JR., '63, is with the 3rd Special Forces Group (Airborne) undergoing training at the J. F. Kennedy Center for Special Warfare. He recently returned from jungle training in Panama. Brother Mueller resides with his wife and daughter at Fort Bragg, North Carolina.

WILLIAM E. BUNCHILL, '64, is an AEC Fellow in nuclear engineering (Ph.D. candidate) at the University of Illinois. He was married in June 1964 to Susan V. Flock, who teaches in Champaign, Illinois.

KAPPA CHAPTER

JOHN E. OTT, '17, is general partner in Punch-Lok Company, Chicago, Illinois.

HOWELL REECE, '20, has retired as professor of mechanical engineering at California State Polytechnic College, San Luis Obispo. He has been at Cal Poly since 1946. Brother Reece, known as "Pappy," was honored at the Engineering Week banquet in February 1964. The Howell Reece Faculty Award plaque was introduced at that time. It will be awarded by engineering students each year to the faculty member voted the best teacher. Faculty members presented Brother Reece with a special three-dial clock as a retirement gift.

LOUIS E. MOHR, '23, is vice president of John Mohr & Sons, Chicago, Illinois.

CLARENCE H. ELDER, '25, is vice president and

chief engineer for the Reliable Electric Company, Franklin Park, Illinois. He retired in 1963 from the Illinois Bell Telephone Company after 38 years with the company.

WILLIAM F. GERDEK, JR., '26, is vice president, secretary, and director of Michelmann Steel Construction Company and subsidiary companies in Quincy, Illinois.

P. Z. MICHENER, '26, has been elected a vice president of Sverdrup & Parcel and Associates, Inc. of St. Louis, Missouri. He will coordinate the field activities of the organization.

EUGENE B. MILLNER, '27, is district superintendent for Commonwealth Edison Company in LaGrange, Illinois.

ROBERT C. HADLEY, '28, is associated with Stearns-Roger Corporation in Denver, Colorado.

BRUCE G. EATON, '30, is a senior advisory engineer for Westinghouse Electric Corporation, Baltimore, Maryland.

LEWIS F. CONCKLIN, '32, is supervisor of production engineering for Whiting Corporation, Harvey, Illinois.

RICHARD H. HEBERLING, '32, is vice president of the Trainsmobile Division of Pullman, Inc., Cincinnati, Ohio.

RANDALL A. FORSBERG, '33, is president of Forsberg Lumber Sales, Inc., Chicago, Illinois.

MU CHAPTER

JAMES H. WINGARD, '22, is retired but does limited consulting in civil engineering. He lives in Bradenton, Florida.

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

WALTER T. SMITH, '35, is associated with Freeport Kaolin Company. He lives in New Haven, Connecticut.

JOHN J. MOONEY, '41, is assistant project engineer for Hamilton Standard Division, UAC, Windsor Locks, Connecticut.

MURRY MANUEL, '46, is sales manager for Allied Steel Products Company, Miami, Florida.

WILLIAM C. STAPLETON, JR., '49, is professor of electrical engineering at the University of Alabama.

JAMES H. RIVES, JR., '53, is a structural engineer for Barnard & Burk Inc., Baton Rouge, Louisiana.

R. A. MOORE, '54, is a supervisory engineer for Westinghouse Electric Corporation, Baltimore, Maryland. He lives in Severna Park.

SPRING 1965

ROBERT S. KULF, '55, is an assistant project engineer for Pratt & Whitney Aircraft Division, UAC, Middletown, Connecticut. He is president of the local unit of the Retarded Children's Association and a member of the Board of Directors for the state organization. His family includes his wife and two sons.

CAPT. CHARLES K. BEAUCHAMP, '58, has been certified as a C-130E Hercules aircraft commander at Charleston AFB, South Carolina.

JAMES SWEENEY, '58, was recently promoted to the position of director of reliability and quality control at Kirtland AFB, New Mexico. He is responsible for the reliability of all nuclear and aerospace systems designed and produced by the Air Force Special Weapons Center.

NU CHAPTER

EDWIN H. JOHNSON, '22, has retired and is living in Sebring, Florida.

FRANK L. WAGNER, '26, is general manager of the St. Regis Paper Company, Dubuque, Iowa.

COL. M. A. KINLEY, '32, is chief, technical operations, Development Division, U. S. Army Materiel Command, Washington, D. C.

J. F. BARABY FLOYD, '37, is a senior engineer and member of the principal staff at the Applied Physics Laboratory, Johns Hopkins University, Silver Spring, Maryland.

LEONARD HAREDS, '38, is a mechanical engineer for NASA's Goddard Space Flight Center in Maryland.

GEORGE O. N. REED, '46, is district manager (sales engineering) for Vibrofloatation Foundation Company, St. Petersburg, Florida.

FRANCIS P. SCHIEBERL, '48, is manager of engineering services for Chandler Evans Corporation in West Hartford, Connecticut. He is married and has four children.

XI CHAPTER

GEORGE P. ZIMMERMAN, '49, is assistant city engineer for West Covina, California.

RICHARD C. MEYER, '52, is a senior analytical engineer for Hamilton Standard in Windsor Locks, Connecticut.

DAVID J. RICHTER, '62, is presently with the U.S. Army at Fort Greely, Alaska, to test Army materiel under Arctic conditions. He previously worked at the Twin Disc Clutch Company in Racine, Wisconsin. Brother Richter married Miss Bonnie Lee Casetta in June 1962, and is the father of a daughter, Angelica Maria, born in September 1964.

OMICRON CHAPTER

VERON C. PRICE, '22, is acquisition representative for

Iowa State Telephone Corporation in Centerville, Iowa. In March 1965 he retired from Iowa Southern Utilities Company after 42 years' service.

FRANK W. EDWARDS, '28, is president of Linsbaugh Engineering & Aerial Surveys, Inc. in Albuquerque, New Mexico. The firm handles many diverse civil engineering projects. Brother Edwards is a former Grand Inner Guard of Theta Tau.

JOHN F. DETERS, '39, received the Ph.D. in chemistry in August 1964 from the University of Notre Dame. He is now assistant professor of chemistry at Valparaiso University in Indiana.

JAMES F. PETRIK, '42, is a design engineer for Dow Metal Products Company in Madison, Illinois. He is married and has two children.

EDWARD A. SLENDER, '42, is a project engineer for International Harvester Company, Melrose Park, Illinois.

CDR WILLIAM H. MAYO, '46, is in astronautics and support warfare officer in the Bureau of Naval Weapons, Washington, D. C.

DEAN R. SANBORN, '49, is technical supervisor-calcium chloride for Wyandotte Chemicals Corporation, Wyandotte, Michigan.

WILFRED R. GEORGE, '50, has been promoted to institutional department manager at Bache & Co., San Francisco, California. The company is the second largest stock brokerage firm in the U.S.

MICHAEL MUELLER, '53, is supervisor of construction engineering at the Maytag Company, Newton, Iowa.

CAPT. RICHARD J. MAURER, '60, has graduated from the Air Force Squadron Officer School at the Air University, Maxwell AFB, Alabama. He has been reassigned to Blytheville AFB, Arkansas.

PAUL F. MORGAN, '60, is an associate in the patent and trademark law firm of Hume, Green, Clement & Hume in Chicago.

RUSSELL L. ROBERTS, '60, is an engineer/estimator for Peterson-Roberts Construction Company, Rock Island, Illinois.

CHARLES W. KESMEREK, '61, is touring Europe with his wife this year in a VW Kombi they outfitted themselves.

JAMES E. CROSHIECK, '64, is a NASA Fellow in mechanics at the University of Iowa, Iowa City.

PI CHAPTER

DR. LAWRENCE R. QUARLES, '29, dean of the School of Engineering and Applied Science at the University of Virginia, attended the Mid-Atlantic Regional Conference of State Science and Technology in Washington, D. C.

THE GEAR OF THETA TAU

JAMES V. BUTNER, JR., '41, was recently named president of the Instrument Division of Lear Siegler, Inc. in Grand Rapids, Michigan.

STUART TALBOT, '43, is supervisory engineer for the Peoples Gas Light & Coke Company, Chicago.

L.Y. (J. C.) WILLIAM K. ARNOLD, JR., '62, is attached to Carrier Airborne Early Warning Squadron 33 at Quonset Point, Rhode Island, as electronic counter-measures officer.

JAMES O. RECTOR, '63, is attending the Purdue University School of Electrical Engineering.

RHO CHAPTER

DANIEL M. HOUSE, '33, is president of Planned Music of Kentucky, Inc. in Louisville, Kentucky.

E. P. DAVIDSON, '41, has been named general manager, packaging materials operations, for the Armstrong Cork Company. Prior to his promotion he was manager of the Lancaster, Pennsylvania, floor plant.



DAVID J. FOGARTY, '52, has been promoted to the position of chief mechanical engineer for Southern California Edison Company. He was formerly supervising mechanical engineer for the company, which he joined in 1961. Brother Fogarty is a member of the Instrument Society of America, American Society of Mechanical Engineers, and Pacific Coast Electrical Association.

ROBERT L. RIDGWAY, '52, is western regional sales manager, compressor sales, for Fairbanks, Morse, Inc. in Los Angeles. He was recently elected secretary of the Los Angeles Council of Engineering Societies. He is also a member of ASME, the Society of Petroleum Engineers of AIME, the California Natural Gas Association, and the Engineers' Club of Los Angeles. His military service in World War II included 50 combat missions, for which he was decorated with the Air Medal and eight oak leaf clusters, the Distinguished Unit Badge, and Bronze Battle Stars. Brother Ridgway and his family live in Manhattan Beach.



CAPT. INGRAM B. McLEOD, '60, was married on June 27, 1964 during the course of his studies at

the Career Officer's Course at Fort Monmouth, New Jersey. He is now on duty with the U.S. Army Signal Corps in Germany.

1/LT. WILLIAM R. SASSOMES, JR., '61, has graduated from the Air Force's Squadron Officer School at the Air University, Maxwell AFB, Alabama. He was reassigned to Lowry AFB, Colorado.

WALTER W. MORRIS III, '62, is an experimental engineer for Pratt and Whitney Aircraft's Florida Research and Development Center at West Palm Beach.

H. WENDELL MCGEE, '64, is employed as a chemical engineer at Newport News Shipbuilding and Dry Dock Company in the Testing Laboratory Department.

2/LT. JAMES K. RUDSILL, '64, has entered Air Force pilot training at Webb AFB, Texas.

SIGMA CHAPTER

M. S. KLINCK, '26, retired last June from active teaching at the University of Connecticut, and is looking into the possibility of establishing a Theta Tau chapter there.

HAROLD A. BOLZ, Hon. '33, dean of the College of Engineering at Ohio State University, received the "Technical Man of the Year" award of the Columbus Technical Council at its annual banquet. He also was recently elected vice president and a director of the ASCE.

SEYMOUR K. BROWNE, '40, is manager of aviation sales, ICE Export Division, General Electric Company, in New York City.

DONALD R. BROWER, '45, received the 1963 John T. Bolljohn Award given by the Institute of Electrical and Electronics Engineers. He is senior scientist at Radiation Incorporated, Melbourne, Florida.

ROLAND E. NORRIS, '60, is an engineer on Gemini mechanical systems for NASA-KSC at Cape Kennedy, Florida.

TAU CHAPTER

DR. JOHN F. McLAUGHLIN, '50, will become assistant head of the School of Civil Engineering at Purdue University next July 1. He will also continue to teach and direct research in highway materials. Brother McLaughlin had been head of the Department of Transportation Engineering and chairman of the Purdue Road School.

UPSILON CHAPTER

JOHN W. RICHARDSON, '29, is a supervising engineer for the Maine Highway Commission in Brunswick.

KENNETH F. SHOEPROESTER, '30, is assistant chief engineer for Hartford Steam Boiler Inspection & Insurance Company in Connecticut.

GEORGE L. SANDBURY, '37, is head of mechanical development at Hughes Tucson Engineering Lab.

CDR RICHARD E. ANDERSON CEC USN, '49, and CDR WILLIAM F. RUSSELL CEC USN, '49, have had interesting parallel careers. Both graduated in civil engineering from the University of Arkansas, and both were awarded MSE degrees in sanitary engineering at the University of Michigan. Both



Commanders Anderson and Russell

married Arkansas girls and both families now reside at the Naval Construction Battalion Center at Port Hueneuse, California. Brother Anderson is the commanding officer of USN Mobile Construction Battalion NINE and Brother Russell is the commanding officer of USN Mobile Construction Battalion FIVE. Both Seabee battalions serve on Okinawa, sharing the facilities of Camp Kinser.

KENNETH RIPPY, '51, is superintendent of quality control of the Cainesville (Texas) plant of National Supply Division of Armaco Steel.

CLIF VINEYARD, '53, is a senior engineer, research, in system engineering spacecraft design for the Space & Information Systems Division of North American Aviation in Downey, California.

PALMER TERRELL, '57, is on leave from Texas Instruments Company, Inc. of Dallas, and is working toward the Ph.D. in engineering at the University of Texas at Austin. His family includes his wife, a son, and a daughter.

JAMES M. FAWCETT, '60, is an engineer for Westinghouse Electric Corporation in Baltimore. He lives in Laurel, Maryland.

PHI CHAPTER

GEORGE L. JACKSON, '26, is chief engineer for Illinois Tollway, Chicago.

DONALD W. CHRISMAN, '42, is assistant to the vice president of Buckner-Rambo Corporation, Canoga Park, California.

O. P. "COOK" LOUGHEED, '46, is president of Earth Construction & Engineering Inc. of Fort Wayne, Indiana. He is a member of the Purdue Scholarship Foundation.

EARL L. COTTRELL, '54, is assistant superintendent of maintenance at the Grand Isle Mine of the Freeport Sulphur Company. This sulphur mine is seven miles offshore. He lives in Metairie, Louisiana with his family, which includes his wife and four children.

MAURICE R. HALSEY, '55, is a professor at the Fort Wayne campus of Purdue University.

JAMES N. DRESSER, '59, is employed as patent agent for Atlantic Research Corporation, Alexandria, Virginia. He is studying law at George Washington University in the evenings, and expects to receive the J.L.B. degree in September 1966.

CARL S. HINSHAW, '59, is a planning engineer for Long-Tenoco-Vought, Dallas, Texas. He received his M.S.I.A. degree in 1964.

LT. (J.G.) JAMES I. MARRONE, '61, was married October 17 to Karen Diosi, a graduate of Wayne State University of Detroit. He is currently serving aboard the U.S.S. Tolovana.

STEVE M. McLARY, '64, is an assistant engineer for Owens-Illinois Glass in Toledo, Ohio.

CHI CHAPTER

WALTER A. BROWN, '32, is chief engineer for Leeds, Hill & Jewett, Inc., of San Francisco.

FRANK NANCE, '43, reports that his son John is spending his senior year of high school as an exchange student in Ermschwerd, Germany, as part of the American Field Service program abroad. Brother Nance lives in El Paso, Texas.

ROBERT B. CLELLAND, '49, is a senior engineer (chemical engineering) for C. F. Braun Company, Alhambra, California.

KARL M. PATTISON, '50, has returned to his former job with Hughes Aircraft Company in Tucson, Arizona, after a two-year engineering assignment in Sweden. His family, including six children, returned with him.

DUANE P. LINGAFELTER, '58, is a sales engineer for G. S. Marshall Company, Redwood City, California.

FREDERICK G. KINTIE, JR., '64, has been commissioned a second lieutenant in the U.S. Air Force upon graduation from Officer Training School at Lackland AFB, Texas.

THE GEAR OF THETA TAU

PSI CHAPTER

DAVID JONES, '35, is the sole valuation engineer for the Branch of Real Estate Appraisals, U.S. Bureau of Indian Affairs. The Bureau has trust responsibility for over 50 million acres of land in some 250 various Indian reservations. There will be a good deal of travel involved for Brother Jones, who lives in Arlington, Virginia. He was previously with the Corps of Engineers in Sacramento, California.

ELTON A. YOUNGBERG, '38, is assistant manager for operations for the Grand Junction (Colorado) office of the U.S. Atomic Energy Commission.

PATRICK J. BUTLER, '58, is a petroleum engineer for the Western Division of California Oil Company in Rangely, Colorado.

OMEGA CHAPTER

PROF. EARL D. DAKE, '24, head of the Civil Engineering Department and vice president of South Dakota Tech, has been made a life member of the ASCE.

DAVID G. ROBERTSON, '46, is an engineering supervisor for the Boeing Company, Seattle, Washington.

STANLEY A. SCHACK, '50, is a metallurgical engineer for American Smelting & Refining Company. He lives in Danee, Illinois.

BERNARD N. SUTTIN, '50, is a design specialist for ground support systems for Lockheed Missiles & Space Company, Sunnyvale, California. He has two teenage children.

LENNIS F. SHAFRANEK, '51, is a process engineer in the Design Division, Engineering Department, of E. I. du Pont de Nemours & Company in Wilmington, Delaware.

FRANK P. TAGLIAMONTE, '57, is resident geologist-exploration with Kerr Addison Gold Mines. His responsibilities include all exploration activity in northwest Quebec and northeast Ontario, a particularly active mining and mining exploration region. The family, which includes two children, lives in Noranda, P.Q. Brother Tagliamonte is a member of the Corporation of Professional Engineers of Quebec and the Association of Professional Engineers of Ontario.

H. DOUGLAS PRENZLER, '60, is a graduate student at the University of Arizona. He is on leave of absence from Allis-Chalmers, Milwaukee, Wisconsin.

GAMMA BETA CHAPTER

WILLIAM J. ELLENBERGER, '30, is supervisory construction management engineer for the Department of the Army in Washington, D. C.

FRANCIS M. HOFFHEINS, '33, is deputy director, Chemical Division, BDSA, of the U.S. Department of Commerce in Washington, D. C.

JOHN E. PARSONS, '38, is a staff engineer for C & P Telephone Company, Washington, D. C.

IRA K. JONES, '40, is facility projects engineer for American Telephone & Telegraph Company, Southern Area. He lives in Atlanta, Georgia.

J. HAROLD LINK, '40, is supervisory electrical engineer for the Navy Department, Bureau of Ships, in Washington, D. C.

JOHN C. HELD, '52, is manager of the Florida District Office, General Radio Company. The office recently assumed responsibility for sales engineering in Georgia and Alabama as well as Florida. The company manufactures precision electronic measuring instruments. Brother Held lives in Maitland, Florida.

RICHARD F. JULFUS, '52, is assistant to the vice president of Keltec Industries, Inc., Alexandria, Virginia.

OSBORN E. KER, '57, recently moved from Euclid, Ohio to Alexandria, Virginia to take a job with the U.S. Army Research and Development Laboratories at Fort Belvoir.

IRVIN H. SCHICK, '58, is chairman, Division of Engineering and Technology, at Montgomery Junior College, Takoma Park, Maryland.

JOHN W. ROBERTS, JR., '60, is a mechanical engineer in the Quality Evaluation Laboratory of the U.S. Naval Ammunition Depot, Oahu, Hawaii.

KITT E. GILLILLAND, '61, is an electronics engineer at the National Bureau of Standards, Washington, D. C. He lives in Beltsville, Maryland.

FLOYD F. MATTHEWS, JR., '62, has been promoted to chief, Engineering Services Office, Savanna Army Depot, Savanna, Illinois. He is the father of a daughter, Monica Maureen, born September 28, 1964.

ELIOT COHEN, '63, is an electronic engineer at the U.S. Naval Research Laboratory, Washington, D. C. He is also studying for the M.S.E. degree at George Washington University.

DONALD A. MILLER, '63, is a graduate student in solid state physics at Northwestern University, Evanston, Illinois.

LOUIS J. BOKEZ, '64, is an electronic engineer for the National Bureau of Standards, Washington, D. C.

DELTA BETA CHAPTER

E. G. EDELHAUSER, '40, is supervising engineer, Western Kentucky Division, Schenley Distillers, Inc., Louisville, Kentucky.

P. A. WAGNER, JR., '43, is maintenance superintendent for the B. F. Goodrich Chemical Company in Louisville, Kentucky.

WILBUR L. GRAFF, '47, is a maintenance engineer for Brown-Forman Distillers Corporation, Louisville, Kentucky.

FLAMMER C. SMITHER, JR., '55, is assistant superintendent, Stores Department, for the Louisville Gas & Electric Company.

ELDRID N. CARY, JR., '57, is a senior engineer at Esso Research Labs, Baton Rouge, Louisiana.

BERNARD F. SCHUNCKERT, '62, is a cognizant engineer at the Knolls Atomic Power Laboratory of General Electric Company, Schenectady, New York.

C. RICHARD GOWIN, '64, is an engineering computer programmer, U.S. Army Corps of Engineers, Louisville, Kentucky.

ZETA BETA CHAPTER

RALPH A. KANGAS, '62, is now employed by the Washington State Department of Highways in Des Moines, Washington. He formerly was with the Boeing Company.

IOTA BETA CHAPTER

PAUL D. SHABON, '64, is an engineer with the City of Rochester (New York) Department of Public Works.

Alumni Association News

INTERMOUNTAIN ALUMNI ASSOCIATION

Founders' Day was commemorated in Utah on Wednesday evening, the 24th of October. Lambda Chapter at the University of Utah, Zeta Beta Chapter at Utah State University, and the Intermountain Alumni Association met together for dinner at the Ambassador Club in Salt Lake City.

The Alumni Association president, Otto Duke, welcomed all Theta Taus and introduced several of the prominent alumni present, the faculty advisors, and the Chapter officers. Greetings from national officers were read.

Toastmaster for the evening was George C. Jones, who noted that he had missed the last Alumni Association meeting and that his friends had made this selection in his absence.

Joe Hemlock, Regent of Lambda Chapter, gave a report on Chapter activities for the fall quarter of school and invited alumni participation.

Don Balls, Vice Regent of Zeta Beta Chapter, discussed the Chapter program and invited those traveling to Logan to visit the Chapter.

Garn Hatch, Western Regional Director, reported on the plans for the Sixtieth Anniversary Theta Tau Convention, and challenged the alumni to a more active interest in the affairs of the Fraternity. The significance of alumni interest and support in the growth and stability of individual chapters and of the Fraternity as a whole was particularly emphasized.

The speaker of the evening was Mr. Robert E. Halladay, manager of the Utah Manufacturers Association, who spoke on "The Freeprot Amendment—What It Means to Utah." This is a proposed amendment to the Constitution of the State.

The evening was informative and challenging, an opportunity to renew many old friendships, and a beginning of many new friendships with the new members of Lambda and Zeta Beta Chapters.

GARN HATCH

Western Regional Director

Our Intermountain Alumni Association meets the first Friday of each month for a luncheon. At this time we transact any business pertaining to the Fraternity, and we always have an interesting guest speaker.

At our March meeting we had an exceptional guest speaker, C. Taylor Burton, director of highways for Utah. He gave an interesting illustrated lecture regarding building access roads into the new Canyon National Park which he called "America's newest playground."

OTTO DUKE

President



Charter members of Lambda Chapter: Milton Anderson, Reece Davis, George R. Watkins, and Thomas J. Parnley.

To: All Members of Theta Tau

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

Robert G. Carson, Tau '47 (Roll No. 361).

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

ROBERT E. POPE, Grand Scribe

Thoughts on Theta Tau

Supplementing the anniversary greetings carried in the Fall 1964 issue are these words from two Past Grand Regents.

As a member of several honorary and social societies and fraternities, I have always valued the professional fraternity as highest on the list. This is a general observation, but applies specifically to Theta Tau. The honoraries generally are most interested in extending the privilege of membership to meritorious individuals, and some appear to exist solely for that purpose. The social fraternities knit rather close bonds while one is on the undergraduate level, but after some years the returning alumnus finds that he has so little in common with the active members that in most cases he loses interest. But age span has little significance when I associate with Theta Taus. We have a common language, common and parallel interests, and a bond in brotherhood that is enduring.

DR. RICHARD J. RUSSELL, Grand Regent, 1927-1931

Sixty years in the life of a Fraternity is notable. That much time would include many emergencies—some distressing, some thrilling, some momentous, some tedious.

Looking forward and back, in terms of time, most of you would see need of courage and judgment for meeting those emergencies. Such is the case in any progressive organization like ours.

It is the duty of every one of our members to prepare himself to deal with emergencies of any sort that may come up. To deal with those of your Fraternity, your efforts might well be planned to participate in chapter committees and offices. Then, when your knowledge of the various situations is fuller, try for work in the Conventions. Next, Executive Council membership is a natural place to expect work of importance.

The duties and opportunities mentioned will give satisfaction and brotherhood of the highest order. Theta Tau thus presents the chance to what is best in a worthwhile life.

DONALD D. CURTIS, Grant Regent, 1950-1952

NORTH ALABAMA ALUMNI CLUB

The North Alabama Alumni Club of Theta Tau celebrated its first anniversary as well as the sixtieth anniversary of Theta Tau with a Founders' Day banquet at Willowbrook Country Club in Huntsville, Alabama on October 18.

In addition to members of the Alumni Club attending, Grand Regent William K. Rey and Mrs. Rey as well as three of the actives from Mu Chapter and their dates were special guests for the evening.

Events started with a social hour followed by a buffet dinner. After dinner Brother Rey spoke on the Founders of the Fraternity. Members and their wives and dates then enjoyed the remainder of

the evening dancing to the music of the Willowbrook orchestra.

Our plans for the spring include a student meeting on May 7 to which members of Mu and Kappa Beta Chapters have been invited. Later in the spring or early summer, we are planning a picnic or beach party for club members and their families. For the fall, in addition to Founders' Day, we are planning several football trips to local games and to Homecoming at the University of Alabama.

Among the projects in the making for the club is one of assisting the Alumni Affairs Committee of the Fraternity in preparing an alumni club handbook for the use of present and future alumni organizations in Theta Tau.

LEON M. VICK, JR.
President



Chapter News

In a continuing series of chapter letters based on specific topics, this issue's subject is social activities of the chapters. The chapters were asked to report on their organized parties and celebrations and to describe one or two activities in some detail. This was done to help promote an interest among the chapters as well as the alumni in how the student members spend some of their hard-won leisure time during the school year.

As one chapter points out in the letters, Theta Tau is not a social fraternity. However, man is a social animal and to separate artificially social activity from other activities of the chapter would make no more sense than to ask the chapters not to pursue professional development programs.

THE GEAR in this issue recognizes that an important aspect of chapter operation is the parties and celebrations held each year. The fact that the level of activity varies widely should be of no surprise, since this is strictly a "chapter rights" area. Left to their own devices over the years, the chapters have developed a variety of activities influenced by their own traditions, by school customs, by the geographic area, and by pure inventiveness.

To all this we can only say, "Keep it up, boys," for some of our fondest college memories go back to these activities. It always seemed that the bonds of fraternal friendship grew stronger in this atmosphere than during the more arduous tasks of building and carrying on the day to day operations of the chapter, important though they are.—W.F.

ALPHA CHAPTER



The annual winter party was the highlight of last quarter's social activity for Alpha Chapter. "Rome" was the theme used this year; actives, alumni, pledges, and their dates all came dressed in different costumes of Roman vintage. Huge Roman pillars, urns, and a fountain formed the basis for an interesting decorating scheme.

Plans are already in the making for the Spring Formal to be held on May 28 at Rivers Edge in Somerset, Wisconsin. Another coming event is Engineer's Day at the University of Minnesota. Once again our actives have secured some of the committee posts in hopes of returning another all-participation trophy to the Chapter.

STEVEN SANDERS
Corresponding Secretary



BETA CHAPTER

Beta Chapter has four main social events in which we participate during the school year. The first is Homecoming. This event has traditionally involved a party for members and dates before and after the Homecoming Dance sponsored by the Varsity Club.

The next main social activity is the Interfraternity Association Fall Formal. On this evening the IFA sponsors a formal dance. Member fraternities each open their houses to all IFA members and their dates. A buffet style progressive dinner is one of the features of this evening.

The widely-known Michigan Tech Winter Carnival is the main social event of the winter term. In addition to participating in the campus-wide competition, we have parties for members and their dates on the evenings of the Stage Revue, Concert, and Snow Ball. A buffet supper on the evening of the Snow Ball is also a pleasant addition to this long weekend. [See article elsewhere in this issue.]

The last big social event of the school year is our own spring formal, the Jacqueminot Ball. For this event we usually rent a hall and hire a dance band. Weather permitting, it has been the tradition in the past for members and their dates to spend the following afternoon picnicking at the beach.

Our Founders' Day is usually observed with a banquet for members and nearby alumni and honorary members. Also included in our social calendar for the year are such events as hayrides, sleigh rides, smelt fries, and a post-New Year's Eve Party the first weekend of the winter term. A tradition of the past few years has been our Fireman's Day Off party in memory of the unfortunate fire of April 1962 in which our old chapter house burned.

WOODROW WILSON
Corresponding Secretary

GAMMA CHAPTER

No Chapter Letter

DELTA CHAPTER

No Chapter Letter

EPSILON CHAPTER

No Chapter Letter

ZETA CHAPTER

No Chapter Letter

THETA CHAPTER

No Chapter Letter

IOTA CHAPTER



Iota Chapter does not function as a social organization on the University of Missouri at Rolla campus. Therefore, the social activities of the Chapter are limited to informal gatherings and rush smokers.

At the present time the Chapter is awaiting the outcome of this year's "Ugly Man" Contest as it draws near its peak during the St. Pat's festivities March 13. This is a contest to raise money for the March of Dimes. Each social organization on the campus elects an "Ugly Man" and the organization having the "Ugly Man" with the largest contribution receives a plaque and loving cup.

At the present pace last year's record contribution from the Chapter to the March of Dimes of \$1500 will be replaced by an even more substantial figure.

GARY L. KENCARD
Corresponding Secretary

LAMBDA CHAPTER



The social program of Lambda Chapter breaks down into four general categories: minor social events, joint functions with the Alumni Association or the College of Engineering, and finally the Spring Dinner Dance. The Spring Dinner Dance is the highlight of the social calendar and usually occurs in the latter part of the spring quarter. The setting for last year's Dinner Dance was Mount Majestic Manor, a ski lodge located in a scenic canyon above Salt Lake City. For the event the largest portion of the financial load is carried by the Chapter, which makes it possible for the brothers and their dates to enjoy first-class entertainment at a nominal cost.

During the course of the school year, the Engineering College sponsors social events which afford Lambda Chapter an opportunity to participate as a unit. The Oyster Stew, a function which has become a tradition at the University of Utah, is a banquet accompanied by skits, beard growing, and choral group competitions between the various engineering groups. This year the brothers of Lambda Chapter, displaying commendable fraternal spirit, succeeded in upsetting the perennial winners by capturing many first, second, and third places in the contests and having 100% attendance.

Another social function, initiated only recently, is the selection of a Chapter queen and sponsoring her in all engineering queen contests. Although Lambda Chapter is by far the smallest group participating in the Engineering College's social program, we are always well represented in both planning and participation.

The banquets observing both the founding of Theta Tau and the establishment of Lambda Chapter on April 29 provide an opportunity for the active members of Lambda Chapter to associate

socially with the alumni group in Salt Lake City. In the past the brothers of Lambda Chapter organized the October 15 banquet and the Alumni Association sponsored the April 29 dinner; however, since many of the alumni are from other college chapters and Lambda Chapter had very little time to make the arrangements for Founders' Day, we have reversed the procedure this year. In the future Lambda Chapter will sponsor the dinner commemorating the Chapter's establishment and the alumni will organize the Founders' Day. Both of these social activities have almost 100% attendance since it affords the active member a chance to meet working engineers and hear a distinguished speaker.

The social calendar is rounded out by activities such as hayrides, skating parties, and informal get-togethers that solidify fraternalism in the Chapter. The hayrides are very popular and attendance is always high at these activities. Lambda Chapter tries to organize its informal social functions in a manner that provides enjoyment for all the members; therefore the office of social chairman is an important and demanding position in the Chapter.

JOHN E. PHILLIPS
Corresponding Secretary

MU CHAPTER

No Chapter Letter

XI CHAPTER



The engineers at the University of Wisconsin are often accused by their fellow "Badgers" of allowing their studies to interfere with their social life. Although it is true that the men of Xi Chapter try not to let their slide rules get rusty, we now have grown to an active membership of forty, and our social program has grown accordingly. The event of the year was last semester's Christmas Initiation Dinner Dance. The semi-formal date affair began with swimming at 4:00 p.m. in the indoor pool of a resort-motel near Madison. Later in the evening, the initiation banquet was served near the pool and was followed by presentations and a talk by Mr. Fred Marsh, U.W. football offensive line coach. The tables were then whisked away and Brother Dale Moser's band, the Coachmen, played pleasant music for pool-side dancing the rest of the evening. The new initiates provided comic relief by presenting their pledge skit which came to a truly water-logged ending in the pool.

Other traditional social events at Xi occur at least once a month. Each semester begins with two rushing smokers and includes about two theme-dance parties, a stag party, and a picnic. In addition to this semester's social program, the whole Chapter is working hard to complete an exhibit for the U.W. Tri-Annual Engineering Exposition, which, it is hoped, will win a first prize in the student group display competition.

JAMES C. WINKLER
Corresponding Secretary



Lambda brothers and dates at their Spring Dinner Dance.



Sigma's Roman Togs Party.



It's breakfast the morning after in the Great Smokies for Rho members and their dates.

Wining and dining at Sigma's Roman party.



Xi Chapter pledges working on a replica of the badge.

OMICRON CHAPTER



Omicron Chapter is generally recognized as being the most social-minded group in the College of Engineering at the University of Iowa. But we hasten to add that the Chapter grade-point was considerably

above average for the fall semester.

Omicron's major social events center around MECCA, the week-long engineering student celebration held each spring to honor St. Patrick, the patron saint of engineers. During MECCA Week, the undergrads search for the MECCA Stone, hidden by the graduate students. They are sometimes aided, sometimes frustrated, by a series of successive clues hidden by the grad students. After several other events, the week is climaxed by the MECCA Ball Friday evening. Omicron traditionally holds a dinner or cocktail party before the ball.

Aside from this, we keep socially active during the rest of the year in a variety of methods. In recent years hayrack rides, toboggan parties, picnics, and parties have been held frequently. These and post-football game dinners and parties are great favorites with the brothers. Another traditional favorite are the monthly dinners for members and their dates or wives. We are usually entertained by an after-dinner speaker from the campus.

Founders' Day last fall was observed with a coffee hour for visiting alumni before a home football game. Omicron's new rushing program this year included an evening smoker for rushees, followed after a few days by an afternoon picnic. That evening a dinner and party were held to which the rushees and dates were invited.

RICH BOWLEMAN
Corresponding Secretary

PI CHAPTER



The social activities of Pi Chapter are of a limited nature. The social activities at our school center around the social fraternity, to which a large percentage of our brotherhood belongs. Because of this fact we do not have our own house and consequently do not have numerous social activities.

We do have a few memorable events. After we pledge our class in the spring we hold a banquet in its honor, and then in the fall we have a similar function following initiation. These are always highlighted by speeches given by our Theta Tau brothers among the faculty and usually we have a guest speaker.

Our rush program is also of a social nature. We hold these parties in different social fraternity houses for three consecutive weeks, where we are able to meet in a friendly and informal atmosphere our fellow engineers. Although our social program is not very elaborate, we of Pi Chapter gather together often enough to be able to experience the true meaning of brotherhood.

DOUGLAS G. EGGE
Corresponding Secretary

RHO CHAPTER



Rho Chapter has a major social activity each semester which we try to coordinate with the last week of pledge training. Traditionally the

Chapter has spent a weekend in the North Carolina mountains during the fall semester and a weekend on the coast of our State during the spring semester. This spring the beach trip is planned for the last of April.

The Chapter also holds a banquet around October 15 in observance of Founders' Day, and one in February in observance of our Chapter establishment. These social gatherings are unified with our professional development program by having speakers from diversified fields speak to us on these occasions.

In addition to these major social events, the Chapter holds several combo parties during the year. Each semester one of these parties is held at the beginning of pledge training to enable pledges and brothers to get to know each other. Also, block seating is obtained for home football and basketball games so the Chapter can enjoy these games together. Each year is ended with a picnic in honor of the graduating seniors during the last week of classes.

LARRY M. SYKES
Corresponding Secretary

SIGMA CHAPTER



Sigma Chapter started the school year off with a hayride at the home of one of the members. Following this were several informal house parties. During Homecoming weekend the house was decorated like a Roman forum for the Roman Toga Party. At Christmas the

members held an informal tree-trimming party and dance in the house. Winter quarter has seen several house parties and also a South Seas Island Party. Spring quarter will be as lively as the Chapter plans its combination Spring Formal weekend along with other parties and picnics. The Spring Formal will be in conjunction with Sigma's Fortieth Anniversary.

TOM L. HEUERMAN
Corresponding Secretary

TAU CHAPTER

No Chapter Letter

UPSILON CHAPTER



Upsilon Chapter is again participating in the Engineering Week festivities from March 15-21. Candidates for Saint Pat include Brothers Ray Owen and Tim Bearden. Upsilon Chapter hopes one of these two men will carry on our proud record of winners. Saint Pat, who rules over Engineering Week, has been a Theta Tau

for the past three years. Upsilon will again have its Saint Patricia banquet for the six Saint Patricia candidates on Sunday, March 14. The banquet is one of our major social events of the year.

Other major activities during Engineering Week include the annual beard growing contest, which is strongly supported by the members of the Chapter. The Engineers' Rally will climax the week on Friday night, at which time each candidate will put on a skit, which usually proves to be one of the memorable events of the school year. Brother Gus Vratnas is in charge of the rally, and it should be one of the best ever. The College of Engineering will again have Open House on Saturday, March 30, when each department puts on display some of the interesting facets of its field. Brother Ray Owen is in charge of this year's Open House, and it also promises to be one of the best we have ever had.

Intramural sports have again been successful for Upsilon Chapter. Our basketball team is in the playoffs after winning its league play. At the present time our Chapter is only a few points out of first place in the intramural standings, and we hope to win the intramural trophy by the end of the year.

VIC JOHNSON
Corresponding Secretary

PHI CHAPTER



The major social event of last semester was a formal Christmas Dinner and Dance. At this time, a formal dinner was served at the house, with turkey and all the trimmings. The house was decorated in the spirit of the season, and the brothers entertained their dates there after a formal dance in the

Memorial Center. Each semester one formal dance similar to this is scheduled.

Mothers' Day is usually a big day at the house. At this time, each mother and family of the brothers and pledges is invited to dinner and an afternoon of socializing. This not only gives us a chance to meet each other's families, but also a chance to show our families every aspect of our life at the chapter house.

Another big day is Homecoming Day at Purdue University. At this time we entertain and meet with the alumni of our Chapter. After the Homecoming game, a formal meal is held in honor of our alumni.

Other than these, a "trade party" with some of the girls' residence units is usually scheduled each month, with intermittent serenades to these same units. We also have rush trade parties, professional programs featuring university professors and other notable persons, and annual Purdue Greek Week functions.

Charles Wales, Grand Inner Guard, honored us by the presentation of the Erich J. Schrader Award at a formal meal and meeting recently.

This last semester, Phi Chapter was third highest scholastically with a 4.699 average.

R. WILLIAM LAUTNER
Corresponding Secretary

CHI CHAPTER



Chi Chapter's social activities began this year with the annual celebration of Founders' Day. The program consisted of a steak dinner with all the trimmings at a local steak house. The local Alumni Association was invited, and the active Chapter paid the bill. Needless to say, we had a good turnout. Except for the Initiation Banquet in December, no other major activities were held during the fall semester.

This semester got off to a fast start with the traditional rush picnic and football game. The game was played with a very soft football in the ankle-deep shifting sands of a nearby dry river bed. The teams turned out to be very evenly matched. The rush picnic was its usual noisy success, where the only complaints were made by a few aching muscles that had not been heard from since the last rush picnic. The purpose of this picnic is for the active members to become acquainted with the rushers and they with us.

The next event on the calendar will be the annual picnic given by our Faculty Adviser, Professor Phil Newlin, at his home. This picnic is quite unique in that the menu features venison and wild pig expertly roasted by Phil in his pit barbecue.

Other social activities will consist of a swimming party or hayride in the desert, or possibly both.

LYLE D. JOHNSON
Corresponding Secretary

PSI CHAPTER



The major social event of Psi Chapter this year was the pledge banquet held in conjunction with Founders' Day. A banquet-social hour affair was held at which Chapter officers and alumni members were introduced. Regent James Vincelette gave a short talk on the purpose and traditions of Theta Tau, and our Faculty Adviser, Professor Van Matre, presented a talk on engineering as a profession.

A hayride was held at Columbia Gardens with activities, pledges, and their dates taking part. Following the hayride, refreshments were served and a dance was held at the Columbia Riding Club.

Early this spring, a toboggan party was organized with activities and pledges participating. Two members of the Fraternity who are skydivers provided the highlight of the afternoon's festivities by parachuting to the party.

Psi Chapter is also very active in social events concerning the school as a whole. Last year at the annual observance of "M" Day, we sponsored a tug-of-war between various groups on campus, a greased pig chase, and a skydiving exhibition by two of our members. Psi Chapter members also captured four of the five Student Council positions in the elections held on "M" Day.

During Engineering Days, which were held at M.S.M. during National Engineers' Week, Psi Chapter combined forces with the competing



Eat before you dance at the Phi Christmas party,



The Brothers of Omega Chapter had some help trimming the Christmas tree.



Delta Beta Regent Shipway happily presenting awards to the Chapter Sweetheart, Sharon Davidson, at the Jacqueminot Ball.

Delta Beta's "Hobo Party."



fraternity on campus to sponsor an Engineers' Ball at the local Elks Lodge. The ball was for engineering students and guests, and a large turnout made it a great success. The members are hoping this will become an annual affair in which they may participate.

An initiation is to be held this spring, and our social calendar will be closed out with the observance of the Chapter's anniversary in May. Psi Chapter has traditionally observed its anniversary with a full day of festivities centered around a barbecue and dance.

JOHN W. KOGER
Corresponding Secretary

OMEGA CHAPTER



Social activities at Omega Chapter begin in the fall with the Founders' Day Banquet, which was held this year at the Esquire Dinner Club.

All of the members were in attendance, and a fine steak supper was enjoyed by all. Our speaker for the occasion was Ed Marourek, Omega '41, who is presently a consulting engineer in Rapid City. He gave a talk on the advantages of building a new chapter house and reported on the progress made by his engineering firm toward plans for our proposed new house.

As the school year progresses, Omega Chapter sponsors several smokers during which we become better acquainted with many outstanding members of the freshman class. These smokers are held at the chapter house, and pizza and pop serve as the "ice-breakers." The main attraction of the evening is a program, which usually consists of talks explaining various aspects of Theta Tau followed by some humorous entertainment. This year, the active members pitched in very enthusiastically, and at our final smoker of the year, which was a pledging smoker held at Toscano's Restaurant, Omega Chapter gained 19 new pledges.

Last year marked the completion of a new girls' dormitory located next door to our chapter house. Accordingly, Omega Chapter gave two parties for the dormitory residents this year. The parties began with the actives escorting the girls from their dorm to the house, followed by our presentation of party favors. Gold necklaces with the letters OT engraved on them were given to each girl who attended. Refreshments were served, and the evenings were spent getting acquainted and dancing. Needless to say, the social life here has been improved immensely. Incidentally, the tunnel to the dorm is progressing nicely.

The highlight of our social activities is the Spring Formal. We have not had it yet this year, but last spring it was held at Pactola Lodge, which is located on the shores of beautiful Lake Pactola in the Black Hills. The very delicious steak supper was followed by comments from members of our faculty who are Theta Tau alumni. Live music was furnished, and the remainder of the evening was spent dancing. The dance was capped by the selection of a queen. She was chosen by the faculty members, and was presented with a bouquet of roses from the Chapter. After the

dance, a picnic was held on the beach by the light of a huge bonfire.

LARRY BABUTH
Corresponding Secretary

GAMMA BETA CHAPTER



Gamma Beta's main social function is the semesterly Banquet and Ball, which provides an opportunity for new initiates to meet alumni and friends of the Fraternity. This is the major mixed event in which all brothers, married or single, young or not-so-young, participate. Dining, dancing, and the presentation of the pledge skit make this a lively evening.

All of the social events are open to pledges and provide activities which help in promoting closer friendships among the brothers and the pledges. The events are varied enough to satisfy everyone. The annual shrimp feast is a day of football and food to suit the athletically inclined, while the annual picnic is a more relaxing, family-type affair with wives and dates. This year for the first time, the Chapter has arranged several exchanges with the sororities on campus. These have been very successful and will probably be more numerous in the future. The traditional mixers with coffee, doughnuts, and conversation round out the rest of the Chapter's social activities.

The Chapter takes a very active part in the university's intramural athletic program. Gamma Beta was undefeated in football this past season and has not lost a softball game in two years. We take part in tennis, volleyball, etc. This sports program has turned out to be a very good way of building the bonds of fraternal fellowship which are basic to Theta Tau.

Gamma Beta is trying to have a balanced program of social functions which pleases everyone, and as the interests of the brothers change, so does the program.

DOUGLAS W. LOWE
Corresponding Secretary

DELTA BETA CHAPTER



Delta Beta has a party or get-together of some sort almost every two weeks. Most are quiet parties with ping-pong and pool attracting a crowd in the basement in addition to the dancing in the living room.

This spring will see two annual events—our Spring Formal in April and our annual Memorial Day picnic and softball game with Triangle Fraternity. (A key to the winner is a great inspiration and we have been triumphant for several years.)

The Jacqueminot Ball is held at a country club or other suitable location with a band providing entertainment. During the evening our Sweetheart and her court are presented, and she is given a trophy and roses by our Regent. The dance is followed by a breakfast and a picnic the following day.

During the past year we have had several dance "work parties"—the success of which can be

measured in part by the fact that we won second place for our house decorations during Football Homecoming and first place for our float during Basketball Homecoming.

CHARLES GNERLICH
Corresponding Secretary

EPSILON BETA CHAPTER



The most important social event at Epsilon Beta Chapter is the Founders' Day Dinner Dance held in conjunction with the Detroit Alumni Association. Our dinner dance is held at a local country club or restaurant. Upon arrival each member is given a Jacqueminot rose which he traditionally gives to his date after the speeches are finished. Included in the after-dinner ceremonies is a presentation of awards to the Chapter's most outstanding member, best scholar, most improved scholar, best athlete, and biggest goldbrick. The pitchfork and monkey wrench bring great notoriety to the members receiving them. The evening is concluded by several hours of dancing to a local band.

Our other annual social events include a New Year's Eve party, Memorial Day picnic, Halloween costume party, and August canoe party. In all of these Iota Beta Chapter members and our alumni participate. Our pledge-active parties are held twice a year and are strongly supported by our alumni.

One of the high points of our year is the inter-chapter picnic which is held each spring in conjunction with other Chapters from the Central Region. At this picnic a rotating trophy is awarded to the Chapter which excels in the tug-of-war and other athletic events.

Throughout the year we also have many date parties, sorority mixers, and informal get-togethers at the chapter house. Pre- or post-parties are thrown in conjunction with the major university dances. Our biggest problem is scheduling parties so they will not conflict with our academic pursuits.

ANDY NOLAN
Corresponding Secretary

ZETA BETA CHAPTER

No Chapter Letter

ETA BETA CHAPTER



Eta Beta Chapter has had a busy social schedule during the past months. Certainly our most important activity was our Founders' Day Banquet held last October at the Continental Houston Motor Inn. A speech by our Regent followed by an excellent dinner and dancing to the music of a live band made it a night to remember. A good turnout by our alumni made it possible for our recent initiates to meet their older brothers.

New Year's Eve parties at Eta Beta are always

memorable, and the last one was no exception. A five-piece band provided enough volume to shake the walls, and members and their guests really managed to bring the New Year in with a bang.

Chapter Installation Day is generally celebrated with an outdoor affair at one of the local country clubs.

In addition to these regular activities, Eta Beta has a number of mixer and date parties during the school year.

DAVID L. MILLER
Corresponding Secretary

THETA BETA CHAPTER

No Chapter Letter

IOTA BETA CHAPTER



During the course of the school year, we of Iota Beta Chapter try to integrate a well-balanced social program that would appeal to all without being confined to one type of affair. Because there are no fraternity houses at the University of Detroit, we find that our social functions are restricted to the homes of in-town brothers or their dates, and the out-of-doors.

During the fall season, we hold at least one weiner roast with songs, games, and gatherings around the bonfire. The season of fall would not be complete if the brothers missed their annual hayride. This is perhaps the most popular of the fall social activities. Because of the co-op semesters, we do not hold our Dinner Dance until May, when both sections are together. We did, however, hold a gala Founders' Day party on October 16. We had a cake and read letters and telegrams which were sent from our brothers who were out of town and unable to attend.

We are active during the summer season because one-half of our Fraternity is in school. The main attractions for the summer are beach parties and our annual alumni softball game.

Date parties and mixers with the sororities on our campus or with the sororities from Wayne State University, home of Epsilon Beta Chapter, are very profitable and enjoyable.

Many of our parties have a theme in which costumes are worn. The most successful this year have been a Halloween masquerade party and a Roman toga party. The toga party was complete with a meal and suitable decor in the Roman fashion.

Our social calendar is rounded out with stag parties, parties after campus athletic events, Spring Carnival, and the Slide Rule Dinner.

This year, with 22 graduating seniors, a huge extravaganza is planned for a part of the commencement celebration with parents, relatives, and friends. With the commencement celebration signifying the end of the school year, the brothers of Iota Beta review the past year's activities, and they begin to plan for the coming year.

JAMES SWELLEN
Social Chairman

KAPPA BETA CHAPTER

As a newly-formed Chapter of Theta Tau, the Kappa Beta Chapter at Mississippi State University would like to express our sincere appreciation in being able to call you our brothers.

When we were a colony of Theta Tau, Mu Sigma Epsilon was very active in promoting the profession of engineering. Our activities included visiting several high schools throughout the State to inform the students about engineering as a profession, and serving as guides during Engineers' Day on campus by taking visitors through all of the engineering departments.

Since our installation, Kappa Beta has held two initiations. The first was the initiation of our last charter member, who is a co-op student.

The second initiation was for twelve candidates who completed their pledge requirements.

Our rush program consisted of inviting several selected students from various engineering departments to a smoker where they were informed about the principles of Theta Tau. Those who accepted our bids were required to carve a hammer, and for one week prior to their initiation wore suits to classes displaying red and gold ribbons on their lapels while carrying their hammers.

Our professional development program in the near future will be a continuation of our past activities. We are now concentrating our efforts on obtaining a house.

EMILE NANSAR
Corresponding Secretary

Additions to Membership

ALPHA CHAPTER

- 761 Gary Mark Kaner, Duluth, Minnesota
- 762 Frederick Jay Merry, New Brighton, Minn.
- 763 Glenn Edward Nordling, Hallock, Minn.
- 764 Steven Lorne Sandness, Two Harbors, Minn.
- 765 Ivars Vancers, Duluth, Minnesota

GAMMA CHAPTER

- 1009 Harold Carver Capshaw III, Kansas City, Missouri
- 1010 John Alanson Edwards, Crystal Lake, Ill.
- 1011 Gerald Vernon Jergensen II, Commerce City, Colorado
- 1012 Roger Lee Johns, Tulsa, Oklahoma
- 1013 Kent Thomas Kerr, Houston, Texas
- 1014 Jack Albert McCartney, Burlington, Colo.
- 1015 Ronald Fredric Weiszmann, Golden, Colo.

ZETA CHAPTER

- 674 James Steven Burr, Hays, Kansas
- 675 John Charles Trewolla, Shawnee Mission, Kansas
- 676 Larry Karl Hedlund, Overland Park, Kansas
- 677 John George West, Cedar Lake, Indiana
- 678 John Foster Schroeder, Lyndonville, N. Y.

THETA CHAPTER

- 682 Arthur Roy Rubinstein, Bronx, New York

IOTA CHAPTER

- 984 Allen Glen Behring, Flossmoor, Missouri
- 985 Anthony Natalo Conigliano, St. Ann, Mo.
- 986 Chorus Donald Cooper, St. Louis, Missouri
- 987 Bobby Tyson Cox, Ozark, Missouri
- 988 George Michael Gasparovic, Mehlville, Mo.
- 989 Daniel Kenneth Goodman, Kennett, Mo.
- 990 Thomas George Hensenhoefer, St. Louis, Missouri
- 991 James Orlan Hood, Jr., Birmingham, Ala.
- 992 Ronald Preston Hungerich, St. Louis, Mo.
- 993 Gary Lee Kincaid, St. Louis, Missouri

- 994 Kenneth Laurence Kuebler, Jefferson City, Missouri
- 995 John Francis McGrath, Webster Groves, Missouri
- 996 Gary Dwight Nickens, Alton, Illinois
- 997 William Walton Norfleet, Jefferson City, Missouri
- 998 James Edward Schnarr, St. Louis, Missouri
- 999 Roger Frank Versluis, Jefferson City, Mo.
- 1000 Charles Davis Woodward, Sikeston, Mo.
- 1001 Homer Francis Ziegler III, Glendale, Mo.

MU CHAPTER

- 838 Stanley Bernard Jackson, Tusculumbia, Ala.
- 839 Samuel Venable Boykin, Jr., Jacksonville, Alabama
- 840 Gerald Stanley Brown, Fairfield, Alabama
- 841 Ronnie Carroll Justice, University, Alabama
- 842 William Lester Marlar, Sheffield, Alabama
- 843 William Chris Mathison, Abbeville, Ala.
- 844 Terry Stephen Meek, Birmingham, Alabama
- 845 Terry Lane Ogletree, Gadsden, Alabama
- 846 Charles Max Rumpack, Alexandria, Virginia
- 847 Charles Philip Terrier, Chickasaw, Alabama
- 848 Jimmy Smith Willingham, Fayette, Alabama

XI CHAPTER

- 266 James Frederick Groth, West Bend, Wis.
- 267 Terry Elmo Klitzke, Whitewater, Wis.
- 268 Gerald Raymond Kurtz, Waukesha, Wis.
- 269 Donald Milton Marske, Beloit, Wisconsin
- 270 Paul Michael Murphy, Beloit, Wisconsin
- 271 Robert Michael Pollack, Oshkosh, Wisconsin
- 272 David Marquardt Schaeffer, Sheboygan Falls, Wisconsin
- 273 Shobhagchand Punamchand Shah, Bombay, India
- 274 Lowell E Wenzel, Wausau, Wisconsin
- 275 James Harold Weyer, Manitowoc, Wis.

OMICRON CHAPTER

- 692 Carroll Milton Cullum, Marengo, Iowa
- 693 James Cary Hampton, Belleville, Illinois

THE GEAR OF THETA TAU

- 694 Stanley Alan Hertel, Amana, Iowa
- 695 Ronald Dean Miersen, Strawberry Point, Iowa
- 696 Gerald Allen Russman, Minden, Iowa
- 697 Stephen Daniel Tiernan, Allison, Iowa
- 698 Jerry H. Voigts, Bristow, Iowa
- 699 Stephen Carl Wood, Thornton, Iowa
- 700 Robert Lee Wubbena, Bristow, Iowa

RHO CHAPTER

- 697 James Ronald Bailey, Marion, N. C.
- 698 Edward Stewart Chaney, Harwood, Md.
- 699 Fletcher Forbis Cranford, Jr., Kannapolis, North Carolina
- 700 Harvey Dean Freeman, Kannapolis, N. C.
- 701 Roswell Woodrow Hamlett, Jr., Darham, North Carolina
- 702 Hubert Gray Heavis, Jr., Yadkinville, N. C.
- 703 Larry Evan Shermer, Yadkinville, N. C.
- 704 Daniel McLeod Smith, Greenville, N. C.

SIGMA CHAPTER

- 586 William David Garrett, Gallion, Ohio
- 587 Stephen Robert Montgomery, Dayton, Ohio
- 588 Robert Guy Smith, Poland, Ohio
- 589 Emilio Domenico Spinosa, Columbus, Ohio
- 590 John Harmon Bosko, Columbus, Ohio
- 591 John William Bradshaw, West Milton, Ohio
- 592 Gary Lawrence Cordery, Cincinnati, Ohio
- 593 Ronald Larry Dowell, Orrville, Ohio
- 594 Michael Allan Thurston, Columbus, Ohio
- 595 Robert Lien Cosgriff (Honorary), Worthington, Ohio

UPSILON CHAPTER

- 630 Clifton Cyrus Stewart, Malvern, Arkansas
- 631 Gus Michael Vratsinas, Little Rock, Ark.
- 632 Noel Gordon Nash, Jr., Lewisville, Ark.
- 633 William Dalton McMoran, Hot Springs, Ark.
- 634 Kirk Patrick Pond, Stuttgart, Arkansas
- 635 John Jessup Burns, El Dorado, Arkansas
- 636 Vince Morris Long, El Dorado, Arkansas
- 637 Bruce Wayne Eley, Prescott, Arkansas
- 638 Gary Lee Elkins, Fort Smith, Arkansas
- 639 Charles Donald Morgan, Jr., Fort Smith, Arkansas
- 640 James Lloyd Nowell, Nashville, Arkansas
- 641 Charles Raymond Joyner, Arkadelphia, Ark.
- 642 Tilman Bearden, Jr., Texarkana, Arkansas
- 643 Abou Wadoud Draki, Homs, Syria
- 644 Walter Thomas Jennings, Jr., Heber Springs, Arkansas
- 645 Robert Adrian Etien, Jr., Benton, Arkansas
- 646 Thomas Wayne Sanders, Okay, Arkansas
- 647 Victor Steven Jacuzzi, Little Rock, Arkansas
- 648 George Kent Burnett, Mena, Arkansas
- 649 John David Jenkins, Malvern, Arkansas
- 650 Herman Joseph Kordmeier, Jr., Morrilton, Arkansas

PHI CHAPTER

- 389 Alan Eugene Bahler, Wabash, Indiana
- 390 Stephen Orin Ketcham, Ellettsfield, Indiana
- 391 James Lynn Robertson, Glen Ellyn, Illinois
- 392 Craig Wells Schmoeyer, Allentown, Penna.
- 393 William Richard Seitz, St. Louis, Missouri
- 394 Robert Bruce Tahke, Morris Plains, N. J.

CHI CHAPTER

- 677 Robert Wayne Ault, Jr., Munster, Indiana
- 678 Larry Redge Cooper, Tucson, Arizona
- 679 John Michael Hartman, Bagdad, Arizona
- 680 Walter Grant Love, Tucson, Arizona
- 681 Joseph Massucco, Jr., Prescott, Arizona
- 682 Allan Tate Menze, Phoenix, Arizona
- 683 James Bernard Payne, Tucson, Arizona
- 684 John Steven Traw, Gilbert, Arizona
- 685 Kenneth Gene Van Horn, Yuma, Arizona

PSI CHAPTER

- 473 John Michael Arne, Klamath Falls, Oregon
- 474 Charles Ellis Donegan, Melrose, Montana
- 475 Michael Garnet Lewis, Butte, Montana
- 476 William Patrick Mary, Seattle, Washington
- 477 William James Robinson, Butte, Montana
- 478 Carl Emil Swanson, Jr., Anaconda, Montana

OMEGA CHAPTER

- 620 Daniel Lyle Callahan, Lead, South Dakota
- 621 Dean Paul Edmundson, Tyler, Minnesota
- 622 Gary Curtis Hinckley, Rapid City, S. D.
- 623 Larry Dean Ingwersen, Scottsbluff, Nebr.
- 624 John Charles Larson, Gettysburg, S. D.

GAMMA BETA CHAPTER

- 468 Robert Stanley Cohen, Bronx, New York
- 469 Norman John Hess, Washington, D. C.
- 470 Bruce Hayes Howard, Springfield, Va.
- 471 Douglas William Lowe, Washington, D. C.
- 472 Edwin Ray Otto, Mount Holly Springs, Penna.
- 473 Farid Shahid-Noorai, Washington, D. C.
- 474 David Lee Wong, Washington, D. C.

EPSILON BETA CHAPTER

- 173 Ronald Wayne Bennett, Harper Woods, Michigan
- 174 Ronald George Budrick, Allen Park, Mich.
- 175 John Allen Crook, Detroit, Michigan
- 176 Richard Bryan Edwards, Detroit, Michigan
- 177 Charles William Lapinski, Farmington, Michigan
- 178 Kenneth Arthur Minchart, Detroit, Mich.
- 179 Robert Girard Skrentner, Detroit, Mich.

ETA BETA CHAPTER

- 85 Donald Lee Bliss, Houston, Texas
- 86 Richard Earl Cleveland, Houston, Texas
- 87 Thomas Leon Day, Houston, Texas
- 88 John Kenneth English, Houston, Texas
- 89 Stephen Craig Hall, Houston, Texas
- 90 Charles Huntly Hill, Humble, Texas
- 91 George James Manthos, Houston, Texas
- 92 Claude Douglas Mathes, Houston, Texas
- 93 Thomas Lewis Bookout, Houston, Texas
- 94 James Erwin Johnson, Pasadena, Texas
- 95 Ralph Severus Miller, Fort Worth, Texas
- 96 John Phipps, Jr., Houston, Texas
- 97 Miles Allan Smith, Houston, Texas

THETA BETA CHAPTER

- 28 Alan Russell Wolfia, Seattle, Washington
- 29 Kenneth Leslie Nichols, Warsaw, New York

- 30 Gary Ben Swofford, Seattle, Washington
- 31 David Ernest Tebrink, Seattle, Washington
- 32 James William Frymier, Jr., Richland, Wash.

IOTA BETA CHAPTER

- 52 Harold Vincent Hartman, Jr., Chillum, Md.
- 53 Robert Richard Porcell, Hamilton, Ohio
- 54 Roger Carl Radke, New York, New York
- 55 John Louis Addy, Jr., Grosse Point Park, Michigan
- 56 Robert George Mentag, Detroit, Michigan
- 57 Paul Edward Urschaltz, Pontiac, Michigan

KAPPA BETA CHAPTER

- 1 Claud James Irby, Jr. (Charter), State College, Mississippi
- 2 George Albert Newhall (Charter), Meridian, Mississippi
- 3 James Kimble Upchurch, Jr. (Charter), Jackson, Mississippi
- 4 Larry Lee Alexander (Charter), Hattiesburg, Mississippi
- 5 John Manson Cockerham (Charter), Greenville, Mississippi
- 6 James Edward Caicchi (Charter), Shaw, Mississippi
- 7 Dennis Walter Hoorn (Charter), Marietta, Georgia
- 8 Ray Hamilton Jones, Jr., (Charter), Jackson, Mississippi
- 9 John William Jordan (Charter), Mobile, Alabama
- 10 George Rodney Lightsey (Charter), Laurel, Mississippi

- 11 Emile Albert Nassar (Charter), Jackson, Mississippi
- 12 Melvin Claude Payne, Jr. (Charter), Newton, Mississippi
- 13 William Raymond Trask, Jr. (Charter), Centerville, Mississippi
- 14 Earl Moseley Ware (Charter), Hattiesburg, Mississippi
- 15 Patrick Paul Yarborough (Charter), Columbus, Mississippi
- 16 Charles Neilson Sandler Buchanan, Indianapolis, Mississippi
- 17 Don Ellis Huffman, Hooton, Mississippi
- 18 James Carson Jackson, Purvis, Mississippi
- 19 Newton James Smith, Jr., Scooba, Miss.
- 20 Harold Walter Taylor, Jr., Starkville, Miss.
- 21 William Lee Colbert, Jr., Jackson, Miss.
- 22 Edward Hayes Bowker, Starkville, Miss.
- 23 Charlie Alvin Randall, Jr., Vicksburg, Miss.
- 24 Richard Charles Shultz, Meridian, Miss.
- 25 Richard Warr Carlson, Hattiesburg, Miss.
- 26 James Gordon Carr III, Centerville, Miss.
- 27 David Allen Croach, Biloxi, Mississippi
- 28 John Michael Geer, Vicksburg, Mississippi
- 29 Thomas DeWitt Howard, Hattiesburg, Miss.
- 30 Wilbur Robert Jackson, West, Mississippi
- 31 James Byron Joslin, Jr., Columbus AFB, Mississippi
- 32 Martin Fung Gwon Jue, Hollandale, Miss.
- 33 Lewis Carmen Marascacio, Grenada, Miss.
- 34 Thomas Howard Parker, Prentiss, Mississippi
- 35 Stanley Andrew Reese, Jackson, Mississippi
- 36 Thomas Jefferson Rice, Jr., Starkville, Miss.
- 37 Donald Russell Smith, Carriere, Mississippi
- 38 Robert Merritt Webb, Gulfport, Mississippi

25 and 50 Years Ago in Theta Tau

25 YEARS AGO

The Fourteenth Biennial Convention was held in Chicago, with Russell Glass succeeding J. M. Daniels as Grand Regent.

Pi Chapter was the first winner of the Erich J. Schrader Award.

Past Grand Regent Richard J. Russell reported on his recent trip to the Soviet Union.
(From the Spring 1940 GEAR)

50 YEARS AGO

Beta Chapter dined on venison shot by one of the brothers.

Epsilon Chapter announced plans for the Convention to be held in Berkeley.

Several Zeta men were charter members of the Tau Beta Pi chapter installed at Kansas.
(From the June 1915 GEAR)

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 continue to seek your current address by first class letter. Because of the new higher 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.



Theta Tau Directory

Theta Tau Fraternity was founded at the University of Minnesota, Minneapolis, Minnesota, on October 15, 1904, by:

ERICH J. SCHRAEDER

ELWIN L. VINAL, 4039 West Mercer Way, Mercer Island, Washington 98040

WILLIAM M. LEWIS, 33 Pilgrim Lane, Drexel Hill, Pennsylvania 19026

ISAAC B. HANES, 2120 Northwest Boulevard, Spokane, Washington 99205

PAST GRAND REGENTS

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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 Allee Street, Clemson, South Carolina 29631

JAMISON VAWTER, *Zeta*, (1952-1954)*

A. DEXTER HINCKLEY, *Theta*, (1954-1958), 90 Morningside Drive, New York, N. Y. 10027

CHARLES W. BRITZUS, *Alpha*, (1958-1962), 2440 Franklin Avenue, St. Paul, Minnesota 55114

*Deceased

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- BETA** Established March 26, 1906 _____ Michigan Technological University
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- EPSILON** Established May 4, 1911 _____ University of California
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PHI	Established April 21, 1928 _____ Purdue University 416 North Chauncey Avenue, West Lafayette, Indiana 47906* Advisers: PROF. JOHN McLAUGHLIN and PROF. JOSEPH OFFENLANDER, Department of Civil Engineering, Purdue University, West Lafayette, Indiana 47906
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OMEGA	Established March 26, 1932 _____ South Dakota School of Mines and Technology 107 Kansas City Street, Rapid City, South Dakota 57701* Adviser: DR. ROBERT L. SANDVIG, Chemical Engineering Department, South Dakota School of Mines, Rapid City, South Dakota 57701
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Take the Long View

Having been more or less out of touch with the Fraternity for two bienniums, ye old editor finds it harder to come up with a timely editorial than when the harness used to slip on with regularity. However, fundamental principles are always timely, so for this occasion let us think about the recent unhappiness at the Air Force Academy.

Apparently, from the statements of one of the resignees (*Life*, February 12, 1965), the academy had imposed such a long list of "do's" and "don'ts" upon the cadets that none could actually live up to every instruction every day. The reporting of small failure on one's own part or on the part of a fellow student led to hours of marching which, in turn, made it even more impossible to keep up with studies, house-keeping, athletics, etc. So it was commonly accepted that rules must be broken and since everyone had to do it, it seemed ridiculous to report a fellow cadet for disobeying one. Consequently an honor system turned into a code of loyalty to the pack and hostility to the authorities.

Probably no one would contend that the one or more who stole, reproduced, and sold copies of examinations were in any way justified—honor code or no. This would be grounds for dismissal at any university. How about the purchasers? Did their customary infraction of many little rules make it impossible to see the difference when presented with the opportunity to secure a higher grade in a course for \$5.00?

This kind of decision comes to every man through his life and the integration of his individual reactions in the end make him a man of integrity, a trustworthy man, a respected man, or the opposite. It is important to take the long view and make decisions from day to day on the basis of what kind of person one wants to be in his

maturity. Viewed from this perspective, the small, dishonest advantage taken here and there along the way will seem a poor compensation for the fine responsibility and recognition which can come later on because the world discerns in one a quality which deserves its confidence and respect.

J. W. HOWE

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

Name _____ School _____

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