

*G. Davis Hatch*

# The GEAR of Theta Tau



*Theta Tau Biennial Convention December 27-30 Houston*

Fall 1970

Volume LIX

Number 1

# Convention Set for Houston



Shamrock Hilton



Theta Tau's Twenty-Eighth Biennial Convention, December 27-30, 1970, will be its first in the state of Texas. Houston, the nation's sixth largest city, is well known as the site of the NASA Manned Spacecraft Center with Dr. Robert R. Gilruth, Alpha '35, as Director. The Convention schedule will include a tour of this facility, and of the University of Houston where the Theta Tau Chapter was installed in 1961. Another engineering triumph which is a Houston landmark is the Astrodome, with a capacity of 66,000, home of the University of Houston Cougars as well as of the Houston Astros and of the Houston Oilers.

The generally pleasant December weather in Houston, and the fact that it is easily reached by highway and by airline should make it the Fraternity's most popular Convention city. Early indications are that this will be our best attended Convention to date. The Shamrock Hilton Hotel, the Convention headquarters, is itself an attraction, featuring year-round tennis and swimming in the world's largest hotel pool.

Eta Beta Chapter will welcome visitors to its newly acquired house at 2248 Manoreal within easy walking distance of the Convention headquarters. Host chapter enthusiasm is so high that the entire student membership of Eta Beta Chapter is serving on the Host Committee headed by Brother David I. Brown who has served two years as Regent of the Chapter. He has also been active beyond the Fraternity as Senator in the University Student Association Senate, and as a member of Eta Kappa Nu and of the IEEE.

The Convention Banquet, Tuesday evening, December 29, will highlight the Convention and include presentation of citations to distinguished alumni and awards to chapters of significant achievement during the biennium. A feature of the Convention will be a sharing of ideas through displays and presentations by chapter representatives.

All alumni in the Houston area will be invited and provided details regarding events and reservations. Others who desire this information may request it from the Central Office. This will be a fine time for alumni as well as student members to enjoy the experience which comes only from associating at a great Convention with Fraternity brothers from across the nation. As usual, the Convention will entail much work on the part of Delegates and Alternates in Committee meetings and Convention sessions; but these, as well as other student members, and alumni attending, will have opportunities for informal contacts with other members. In addition to all the national officers who are expected to attend, Founder Vinal and all Past Grand Regents have been invited to this outstanding event.

*Houston*

*Shamrock Hilton*

*University of Houston Administration*

*Cullen College of Engineering, University of Houston*

*Eta Beta Chapter House*



# Is the Theta Tau Experience Relevant!

At a recent Fraternity meeting I attended, one of the brothers asked, "Is the Theta Tau experience relevant?" My answer to that question is it is, if you went to college to get an education. And I'd like to tell you why this is true.

Have you ever asked yourself about the purpose of a college education? I don't mean the job at the end. College is supposed to be more than that. For example, this is the way one university president recently described the purpose of what you're doing.

"What more than anything else characterizes a university? The belief in reason — the belief that men and women, through fact and logic, can reach better understanding about the meaning of life and, by working together, can help to create a better life for all mankind.

That's really what a university is all about. And I welcome you to another year in the pursuit of reason and the pursuit of rational responses to the problems that confront us all."

Is this an honest description of a university? Is the pursuit of reason really what an education is all about? If it is:

1. You would have been shown not only a course syllabus which listed subject matter topics, but also a list of the reasoning abilities or intellectual operations you were expected to develop in each course. (The intellectual operations include solving open-ended and single-answer problems; analysis, synthesis and evaluation; recall, manipulation, translation, interpretation, prediction and choosing).

2. You would have been told how each of these operations was to be developed in a series of courses, the same as subject matter is developed over a period of time.

3.) You would have almost no lecture classes. Instead the faculty would model and then guide you as you learned to use the intellectual operations. The discussion of open-ended problems would be your prime classroom activity.

4. You would be tested for both subject-matter recall and your ability to perform the intellectual operations. I'd be willing to bet that not many of these things happen to you in your classes.

But almost all of them happen to you in Theta Tau. And that makes your fraternity experience of greater value and relevance than most of your classes.

If you think about it, you will realize that an educated man, a valuable man, is one who is distinguished by his ability to think for himself, think logically, learn new con-

cepts and skills by himself, gather required information, respect evidence, and apply analysis, synthesis and evaluation to the solution of real life, open-ended problems using divergent thinking or induction. An educated man can *make decisions*, because he has practiced making them. When he discovers he's wrong, he knows how to evaluate the facts and make a new decision. And these are the intellectual operations you practice as an active member of Theta Tau.

So if you have been challenged to justify Theta Tau to a pledge or to someone else on campus, do it. Because until university professors, teaching methods and courses get relevant, the Theta Tau experience is one of the most valuable, relevant experiences you can get. It will help prepare you to solve the many problems that confront our society. All the talk you hear from many other students is just that. They are not learning to solve problems and make decisions — only to talk.

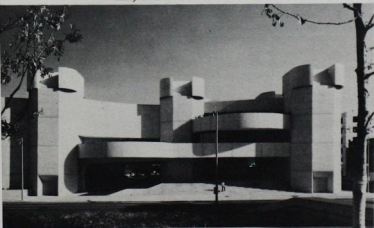
"Okay, I can see how my experience as an active is relevant, but how does the National fit into this picture?" Well, for one thing the National provides stability to your operation — your chapter might not exist today if it weren't for the National. Thus the National helps make the Theta Tau experience available to you and those who follow you. Part of this stability is built-in by the unwanted forms you must process. Part is built into the Regional Conference and the National Convention, where you can exchange ideas with other decision-makers and learn from the interaction.

But the National, like your Chapter, is only as relevant to your development as a thinking man as you make it. You must participate in the decision-making process to learn. Thus, you must set the level at which both your Chapter and the National operate. Do you want a National which provides strong leadership and direction? Do you want a National which pinpoints programs for your Chapter: ecology, pollution, safety? Or do you want to make these decisions for yourself? The choice is yours, because you are the National.

An important time to make some of these decisions is coming up — the National Convention in December. Do you want to suggest ideas for the delegates to consider? Let us know, we're listening; waiting for you to exercise what you're learning — decision making.

*Charles E. Wales, Grand Regent*

*Alley Theater*



*Astrodome*



# You and Your National Fraternity

## What About Your Ideas

A year ago I sent each active chapter a letter describing some of the ways in which the national fraternity attempts to help them operate more effectively. Two new ways, the Chapter Visitation program and the telephone speaker system, are described in this GEAR.

In the letter I also discussed some of the ways in which an active member of Theta Tau could get some good experience through service on a national Interim Committee. I would like to make that suggestion again here to both active members and alumni. This is a chance to contribute your ideas to the committees which recommend policy to the active delegates who legislate at our Biennial Convention (in December 1970). The list of committees is given in The GEAR. Just let me know which committee fits your interests. If you don't see that committee on the list, tell me what you think we need. We would be most happy to have your help.

*Charles E. Wales, Grand Regent*

## Direct Communication

At the suggestion of Grand Regent Wales, the Central Office has obtained a telephone amplifier which is available for loan to any chapter. It permits a national officer to speak by telephone to an entire chapter assembled in a meeting since his voice can be heard throughout the room. A member may talk to the national officer, and participate in the discussion, by speaking directly into the device on which the telephone receiver rests when the amplifier is in use. The speaker itself may be some distance from the telephone.

By borrowing the amplifier from the Central Office, and scheduling in advance with the national officer a date and time when he will be telephoned, a chapter may have this direct verbal communication with the Grand Regent, the Executive Secretary, Regional Director, or another officer.

Although this new device will not take the place of a personal visit, it is considered a valuable communication tool within our Fraternity. It was first used for a discussion between the members of Chi Chapter and the Executive Secretary last spring.

*Robert E. Pope, Executive Secretary*

## Chapter

## Visitation

## Program

The Grand Regent has appointed John M. Dealy, the Grand Outer Guard, as Chapter Visitation Coordinator. This new position reflects the great importance which the Executive Council places on our chapter visitation program.

In the past the prime responsibility for formal chapter visits has rested with the regional directors. By a formal visit, is meant one in which the visitor attends a chapter meeting or initiation, interviews the adviser and officers, and issues a brief report. An informal visit, on the other hand, may mean a meal at a chapter house or a chat with a regent.

However, regional directors are rarely ideally located, geographically, for visitation purposes and usually find some of their chapters much more convenient to visit than others. Therefore, the Executive Council has approved a new chapter visitation program which has the following elements:

- 1) Regional directors will continue to be responsible for maintaining a file on each chapter in their region and for assisting the host chapter in organizing the regional conferences. Brother Dodd is the national coordinator for regional conferences.
- 2) For visitation purposes, a regional director will be assigned only those chapters which he can be sure of visiting during the year.
- 3) Executive Council members will be asked to assume responsibility for making formal visits to chapters near them.
- 4) Other members of the Fraternity with national experience will be asked to participate formally in the chapter visitation program and will be designated chapter liaison officers.
- 5) When a formal visit has been made, a Chapter Visit Report Form will be sent to the Chapter Visitation Coordinator who will provide copies to appropriate officers of the Fraternity.

The great importance of this program to our Fraternity has already been demonstrated in the past year.

*John M. Dealy*





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## Board of Editors

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William R. Reed

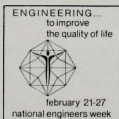
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## National Engineers Week

Theta Tau alumni and chapters are taking an ever more active part in the growing Engineers Week programs. There is a growing participation of students, colleges, and the engineering societies in jointly sponsored activities.

## *In Memoriam:*

### *Past Grand Regent J. Sidney Marine*



J. SIDNEY MARINE

1889-1969

*Grand Regent 1927-29*

J. Sidney Marine, Past Grand Regent of Theta Tau, passed on at his home in Scarsdale, New York, May 13, 1969. He was born in Brooklyn, June 2, 1889.

He was initiate number 75 of Eta Chapter at Massachusetts Institute of Technology and graduated there in 1918.

Brother Marine served Theta Tau as Grand Vice Regent from 1921 to 1925, and then as the third Grand Regent of the Fraternity from 1925 to 1927.

He was elected Grand Regent at the Seventh Biennial Convention, at Columbus, Ohio, at a time when, except for those attending from Sigma Chapter at Ohio State, all eighteen delegates and five national officers traveled by train to the convention. Also, at this time, there were about 3,000 Theta Tau initiates and Brother Marine, as with some other of the national officers then, knew a very large proportion of these members.

Until the time of his death, he continued his work of teaching which he loved. Of his passing, his wife Helen had written, "He had been teaching the former week and we had gone to an antique show on Saturday, as usual looking for interesting clocks." Of his work, "Sid was happy in his work and left a good heritage."

The tribute printed May 22 in the *Scarsdale Inquirer*, written by a longtime friend, Philip L. Carret, is most impressive:

"With Town Club medals and other awards, Scarsdale recognizes the achievements of citizens who make special contributions to the civic life of the community. Occasionally one whose efforts do not fit the regular pattern may make even greater contributions which appear to go unrecognized.

"Such an individual was J. Sidney Marine, who died last week. Graduate of M.I.T., veteran of the Air Force and World War I, Sid discovered an aptitude for teaching in the bleak days of the 1930s. For three decades as a private tutor he worked with the underachievers who are to be found even in a superb school system like ours.

"By his skill and his warm personality he rescued many a confused youngster from academic failure and sent him on his way to a better relationship with his family, a better chance for success in college, a better prospect of mature and responsible adulthood.

"In his passing Scarsdale has lost one of its most useful citizens."

*Former Gear Editor,*

## *Past Grand Treasurer - Paul L. Mercer*

Paul L. Mercer, long-time Editor of *The GEAR* and Grand Treasurer of Theta Tau died February 18, 1970 in Scottsdale, Arizona. He was born October 10, 1899 at Indianapolis, Indiana, and spent most of his life in Iowa.

He was a founder and initiate number 36 of Omicron Chapter at the State University of Iowa, receiving bachelor and masters degrees there in electrical engineering in 1921 and 1922.



PAUL L. MERCER

1899 - 1970

Co-editor *The GEAR* 1929-61

Grand Treasurer 1950-62

For 32 years, from 1929 to 1961, Brother Mercer served Theta Tau as co-editor of *The GEAR* with Brother Joe W. Howe, Omicron '24. He further served as a member of the Executive Council, first as Grand Inner Guard during the war years from 1941 to 1946, and then as Grand Treasurer from 1950 to 1962.

In appreciation of his years of exemplary service, the Theta Tau Convention in 1962 was named in his honor. He was further recognized as a most distinguished and loyal Theta Tau alumnus in the presentation of a Citation for Service at that convention. In responding, he reflected on the many memories that Theta Tau had brought him, and the personal friendships that he had developed over the years with so many brother Theta Taus.

Of interest was the expression in their first editorial in the Fall 1929 issue of *The GEAR* wherein Brothers Mercer and Howe stated the commitment to be followed for so many years "... The prosperity of our fraternity nationally is, to a large degree, dependent on the strength and leadership of our officers. *The GEAR* also, in its position as the forum of the fraternity, has important opportunities for leadership. Cognizant of these possibilities and with confidence in the cooperation of the officers and brothers the new editors pledge themselves to give of their best that *The GEAR* may stand for Fraternal unity and progress in Theta Tau."

His employment was with Union Electric Company in Iowa. He started with a predecessor company, Mississippi Power Company, in 1922. He became manager of the Keokuk plant in 1940. In 1948 he was appointed manager of the Iowa Division. In October 1966 he retired.

Brother Mercer was a veteran of World War I and a life member of the American Legion. Active in community affairs, he was past president of YM-YWCA, the Chamber of Commerce, Keokuk Rotary Club and the Salvation Army Advisory Board.

At the time of his death, he was president of the Trustees of Graham Hospital and a Trustee of Keokuk Public Library.

He was a former director of the Southeast Iowa Council, Boy Scouts of America and a member and past master, Ancient Free and Accepted Masons. He was an active member of Trinity United Methodist Church.

His wife Helen, son Robert H. Mercer, Omicron 47', of Tulsa, Oklahoma and two grandchildren survive.

For Theta Tau, Paul Mercer leaves a fine example of service on the Executive Council and, with co-editor Howe, a fascinating history of 32 years of Theta Tau in the pages of *The GEAR*.

# Mu Beta Chapter Installed at GMI

*by John Dealy, Grand Outer Guard*

Theta Tau's newest chapter was installed at the General Motors Institute (GMI) in Flint, Michigan, on August 2, 1969. I was pleased to have made a small contribution to bringing about this pleasant event by making an investigatory visit there in 1964 when I was Northern Regional Director. I filed a report with the Central Office but soon after moved away, and Brother George Dodd (now Grand Inner Guard) provided most of the liaison with the Fraternity after that. I was also very pleased to have the opportunity to participate in the installation ceremonies, and was amazed at the changes which had occurred at GMI since my 1964 visit. A modernized and much improved program of studies had been implemented, and a substantial campus building program had been completed. The installation was held in the Institute's newest building, the Campus Center.

Another building of great interest to those attending the installation was the Mu Beta chapter house. The house

was described in the Fall, 1968, GEAR (p. 54), but the most interesting feature of the house is the large, heated, indoor swimming pool!

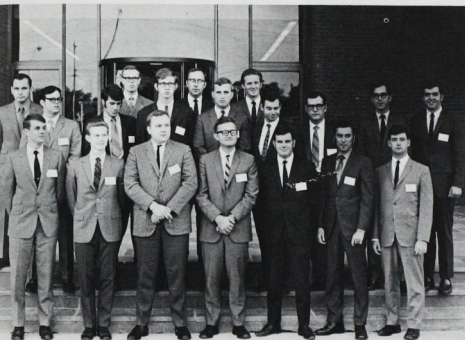
If the story of Mu Beta Chapter has a beginning, it was the enrollment of Don Antonow at GMI in the fall of 1963. Don was a transfer student from Wayne State University where he had been initiated into Epsilon Beta Chapter. Don got the idea that GMI would be a good place for a chapter of Theta Tau. GMI has a cooperative plan in which the students spend 6-week industrial experience periods in the operating units of the Corporation, and only half of the student body (one "section") is on campus at any one time. Don was in "A" section and organized in it in the spring of 1964 a local group interested in Theta Tau. Another factor working to the Fraternity's advantage in Flint was the presence on the faculty of Brother Jim Bay, Beta '54. Brothers Bay and Antonow became acquainted when Brother Bay saw Don wearing a Theta Tau sweatshirt on

## Mu Beta Chapter Installation

*Front row: Mr. K. Lutz, Adviser; Mr. Jay Bay, Adviser; Mr. J. Bradley, Past Adviser. 2nd row: B. Howard, S. Krupa, B. Bellmore, E. Freldhoff, B. Haney, T. Mast, D. Bloom, P. Lewandowski, T. Mikoy, D. Trune, D. Landis, J. Raptoulis, H. Wood, J. Brown, D. Alldredge, L. Norfleet. 3rd row: M. Povrik, F. Havercroft, W. Heidt, P. Holland, M. Idzikowski, S. Cannady, G. Cionka, W. Ziecina, S. Hunter, R. Paull, D. Rogers, J. White, R. Garfield, E. Vanags. 4th row: H. Stevens, P. Provenzano, M. Avey, K. Sohocki, D. Dillingham, R. Abel, R. Marker, D. Heidorn, J. Rasmussen, D. Smith, D. Bergeron, D. Hicks, R. Ruprecht, B. Gest, J. Pierron, K. Pieper. Top row: M. Fahy, A. Warner, R. Courneya.*







### Mu Beta Charter Members

*Front row: D. Woodward, G. Rutledge, J. Bas, C. Poindexter, J. Murray, W. Fleury, D. Cannady. 2nd row: T. Marquis, T. Rudzienky, E. Pauly, S. Hill, O. Pfahl, R. Heyman, T. Downs, J. Halajko. Top row: D. Antonow (Epsilon Beta Chapter), J. Bradley (Sigma Chapter), J. Bay (Beta Chapter), K. Lutz (Beta Chapter).*



*Bell Tower*

the campus one day. With the support of Brother Bay, a group interested in Theta Tau was also formed in "B" section and in September of 1965, Theta Tau's first colony certified at GMI. (see THE GEAR, Fall, 1965)

At that time Theta Tau's bylaws provided that chapters could only be established at schools having at least one ECPD-accredited degree program. GMI had no such programs, and it was only after the bylaws were amended at the 1968 convention that it became possible for a chapter to be installed at GMI. It was primarily due to the enthusiastic and effective information campaign conducted by Brother Bay and the colony members at the convention that it finally became possible for the Fraternity to consider a petition from the GMI Colony. Other Theta Tau members on staff who contributed to the strengthening of the colony were Advisers James W. Bradley, Sigma '62 (now living in Pittsburgh), Ralph H. Wales, Epsilon Beta '56, and Kenneth J. Lutz, Beta '65.

The reception and installation banquet was held in the Pick-Durant Hotel in Flint, with Brother Bay as toastmaster. Dr. Harold P. Rodes, President of GMI, and Dr. Charles L. Tutt, Jr., Dean of Engineering, gave brief greetings. Grand Scribe Pope read a few of the many telegrams and letters received from brothers unable to attend, and added his personal greeting. Grand Regent Wales presented the charter and gave the featured address titled "The Student Revolution." Receiving the charter, and responding on behalf of the new chapter were Regents Heidt

(Section A) and Vanags (Section B). Brother Antonow was recognized for his significant contribution to this achievement, and the new chapter presented a plaque to Brother Bay honoring him for his valuable service as Advisor to the colony. Dancing followed the banquet.

Grand Regent Wales headed the installation team for the historic afternoon ceremony. Also on the team were Grand Vice-Regent Thorpe, Grand Scribe Pope, Grand Inner Guard Dodd, Grand Outer Guard Dealy, and Brothers Donald W. Antonow and Ralph H. Wales. Fifteen of the twenty charter members were able to be present for this event. The others will be initiated at a later time. The following chapters were represented by members at the installation: Alpha, Beta, Zeta, Lambda, Sigma, Tau and Epsilon Beta.

Following the installation, the largest initiation ever in the history of the Fraternity was held as fifty-five more student and alumnus members of the colony were initiated as members of Mu Beta Chapter. After this initiation, the officers of the two sections were installed: William D. Heidt (A) and Edward I. Vanags (B) as Regent; Stephen A. Hunter (A) and John S. Rasmussen (B) as Vice-Regent; David J. Smith (A) and Paul R. Holland (B) as Scribe; Edward F. Freidhoff (A) and Dean Clark Trune (B) as Treasurer; and Dennis R. Bergeron (A) as Corresponding Secretary. David J. Powers will be installed as Corresponding Secretary for Section B upon his later initiation.



*Awaiting the Initiation*



*Robert E. Pope Welcomes New Chapter*

## Introducing General Motors Institute

General Motors Institute, located at Flint, Michigan, is an engineering college operating on the cooperative plan whereby all students alternate between periods of academic study on the campus and related work experience in the sponsoring units of the General Motors Corporation throughout the United States and Canada. It has been engaged in educational services to individuals and industry for almost 50 years.

GMI is the only accredited and undergraduate college maintained by an industrial corporation. Of the more than 7,000 GMI alumni, approximately two-thirds have been employed in engineering and management positions with General Motors.

Currently, about 3000 students are enrolled in the Engineering Program. They came from over 1,100 high schools in 44 states of the United States and 3 provinces of Canada.

As the central educational agency of General Motors Corporation, GMI provides services in addition to the five-year Engineering Program. These services are in the areas of management development and specialized technical programs for employees of General Motors. GMI also offers to residents of the Flint area a continuing engineering education program that supplements the courses offered by other local colleges.

The classrooms, laboratories, offices, and student activities are housed in inter-connected buildings located at 1700 West Third Avenue on the near west side of Flint. The GMI is bounded on the north, east, and west by a middle-class residential area, and on the south by the Chevrolet-Flint Manufacturing Plant and the Flint River.

The original building unit was constructed in 1926. In succeeding years, seven separate additions have been made to bring the present total floor space to about 350,000 square feet.

As is appropriate in an engineering college, nearly thirty

per cent of the total floor space is devoted to laboratories. These laboratories have the finest equipment available for instructional purposes. Among the special facilities are the automotive and instrumentation, radioisotope, heat transfer, electricity and electronics, process development, and computer laboratories.

The library contains over 36,000 cataloged volumes — books and pamphlets. Over 600 periodicals are received currently and retained for study. In addition to the regular collection of technical and academic literature connected with GMI programs, there are several special collections. The archives house items of GMI history. The 6,000 fifth-year theses represent a complete record of the research and problem study efforts of all degree graduates. A unique collection of materials on management is maintained. Special library facilities include a microfilm area, a record and tape listening facility, and small group study rooms.

Curricula are offered in three broad areas of engineering leading to the degrees: Bachelor of Mechanical Engineering, (B.M.E.), Bachelor of Industrial Engineering (B.I.E.) and Bachelor of Electrical Engineering (B.E.E.).

The Engineering Program extends over five years. The first four years operate on the cooperative plan, during which the student spends alternating six-week periods in study at GMI and in work experience in his sponsoring unit of General Motors Corporation.

During each of the four years of the cooperative phase of the program, a student spends a total of twenty-four weeks in intensive studies at GMI, and a minimum of twenty-four weeks in related and directed work experience in his sponsoring General Motors unit.

General Motors Institute is accredited as a bachelor's degree-granting institution by the North Central Association of Colleges and Secondary Schools.

# The Romans Had Their Christians— The Liberal Arts Have Their Engineers

*Charles E. Wales, Grand Regent*

Many engineers have criticized their profession for its failure to engineer for people. A recent speech by the president of a major university identified a key factor in the problem that exists. He said:

"... we must escape the shackles of excessive vocationalism. . . . The problem of generating an educated man is to be found as much in the way in which an educated man views himself in the practice of his profession or his vocation as it does in his attitudes about the persistent questions of the human experience. We need to turn out engineers who are more than engineers; engineers who have a feeling for what technology does to a human group."

How did the president suggest we solve the problem? He proposed that we attempt to

"... recapture the Liberal Arts dream." That we undertake "... the development of the individual whose competence is wide and deep in the fundamental and persistent questions."

The president did not clearly define the liberal arts dream, so we must turn to another source to find out what it is. Hopefully, we can assume that a reasonable definition is found in the current college of arts and science portion of that university's catalog. It says, "Ideally, the student should undergo a well-proportioned development intellectually, spiritually, physically, and emotionally. The end of such development should be an inner balance or stability on the basis of which further growth can take place. Development of the individual as a member of society is to be measured on terms of his or her usefulness and sense of responsibility to the social order."

Surely there can be no question about the engineer's usefulness. In fact, he is the man who has made it possible for society to satisfy most of its needs. We can conclude, therefore, that the president is critical of the engineer's lack of a sense of responsibility for what he develops. It is difficult to quarrel with this criticism because many engineers have made the same point. However, a great number of these same engineers would question the suggested solution to the problem.

If the liberal arts dream is the answer, then we should expect to find that the present product of this dream does have a sense of responsibility for what he develops. To find out if this is the case, let's consider an example — the automobile. This machine, which is a product of the engineer's work, has revolutionized man's way of life by giving him almost infinite legs and extending his vision from one house, one street and one town to the world beyond. But the automobile brings death to many people. Is this also the engineer's responsibility? Of course it is. The engineer has not done all he could do to design safety into the car and its road.

What is the contribution of the liberal arts graduate to the development of the automobile? He has no technical background so his contribution must be as a manager. Many engineers also work as managers so it is probably reasonable to assume that the two men share the responsibility for the

decisions which are made. Therefore, it was not only the engineer but also the product of the liberal arts dream who said "No" when an automotive engineer told them, "a safer car can be designed and built." Both men said safety was too expensive. Neither man recognized his responsibility for what technology would do to a human group.

The engineer is also responsible for polluting our rivers and air because he is the one who creates and runs the industrial operations which satisfy our needs. However, if he were given the chance, the engineer could eliminate this pollution. Why doesn't he do just that? The answer is the same as before — both the liberal arts graduate and the engineer who manage the company won't allow the work to be performed. And their counterparts in government won't require them to do it. Wherever they work, neither man has the conviction required to exercise social responsibility.

Is the liberal arts dream the answer to the problem of social responsibility? These examples certainly indicate that it is not — at least not as it is presently developed. If the basic concept of the dream is valid, then the educational system which attempts to achieve the dream must be faulty. Perhaps a share of the blame for this faulty system can be placed on the engineer because he could have used proven methods to design a better educational system. However, to assess the level of his failure, we must somehow determine if the engineer was asked to help and refused, if the engineer offered to help and was rebuffed, or if the engineer never thought about the problem. The answer is obvious when you observe how jealously those trained in the liberal arts dream guard their heritage from outsiders.

Both the engineering educator and those who teach the liberal arts dream show an equal lack of social responsibility in their approach to teaching. Many people in each group are more concerned with their own professional development than with the education of students. They do not know how to create an effective educational system, they are not consciously aware that it is possible to teach at a variety of cognitive levels, and they do not know how different teaching methods can be used to achieve these levels. Responsible educators understand and use communication techniques designed to achieve specific educational goals. Their classes operate on proven psychological principles. Perhaps it is this faculty failure to exercise social responsibility that we see reflected in the graduates of the system.

Fortunately for the engineering student, there is one factor which offsets this failure and makes an engineering education the best current college education. This is the fact that from beginning to end, the engineering student is required to solve problems and use the highest cognitive skills of analysis, synthesis, and evaluation as he learns to think for himself. Are these cognitive skills an important part of the liberal arts dream? Are they taught in liberal arts classes? They appear to be missing from the liberal arts classes the engineering student is required to take. The "confessions" made during recent discussions of a new core curriculum reveal why this is true. The dream classes taken



by the engineer are lecture courses taught by graduate students. This is clearly not the combination that produces a socially conscious human being, either engineer or liberal arts graduate. And rearranging the content of the courses, as has recently been proposed, will not change the result.

The lack of a sense of social responsibility appears to be clearly illustrated by the engineering student who fails to participate in campus activities. But what the critics fail to observe is that unlike his counterpart in liberal arts, the engineering student does not have to turn to out of class activities to find meaningful problems which exercise his brain or satisfy his humanitarian desires. The current student unrest reflects the lack of this challenge in the liberal arts classroom. The engineering student recognizes his potential to contribute to the solution of our current problems and works to prepare himself. The liberal arts student sees no way in which his education has prepared him for a meaningful role — and he is frustrated by this failure.

Another factor which distinguishes these two students from each other is the engineer's demand for objective information, on which he can base his action, and an insistence that criticism be constructive. These are part of his heritage and training. Thus, the engineer finds it difficult to join the student protests, no matter how legitimate the

cause may be, because these protests usually lack both objective information and constructive criticism. Which student, the engineer or the dreamer, really shows the greatest social responsibility?

Mr. president, the engineering profession thanks you for your criticism; it is most appropriate. However, if the solution you propose is the present liberal arts dream, we do not agree. This may be a great dream, but for 200 years it has failed to recognize what the engineer, by accident or design, has built into his heritage: Intelligence has value only insofar as it is used as a means to an end — the betterment of mankind. The engineer is certainly not as socially conscious as he should be, but the present liberal arts dream, which is sterile by comparison to the meaningful life and work of the engineer, is not the answer. In fact, the dream will be just that until it is taught in a way which makes social responsibility meaningful within the context of the technological world in which the dreamer lives. The answer to this problem does not appear to lie in the simple process of turning the engineer to the liberal arts dream. We may find part of the answer by encouraging the liberal arts student to learn about the dreams of the engineer. We may achieve a real solution sooner if the liberal arts dreamer and the engineer learn to pool their talents to produce an educated man.

## The Regional Conferences

### Western Region



Front row: Mike Wildman, Epsilon; Jay Thorpe, Grand Vice Regent; Jack Payne, Western Regional Director; Jim Christensen, Epsilon; Bruce Stiver, Chi. 2nd row: Bob McLaughlin, Chi; Olin Jones, Epsilon; Jon Nelson, Epsilon; Gary Prill, Omega; Clyde Erickson, Omega; Greg Cameron, Omega. 3rd row: Dennis Green, Lambda; Brent Nielson, Lambda; Richard Thomason, Theta Beta; John Booth, Theta Beta; Wes Starkenburg, Omega; Larry Pearson, Omega; Gary Veurink, Omega. Top row: Roger Miller, Psi; Leo Vansambeck, Omega; Tom Heck, Omega; Roger Nelson, Omega; David Ford, Chi; Ray Allis, Chi; Ron Christensen, Omega; James Warner, Psi.

The entire four man Epsilon Chapter valiantly hosted the Western Regional Conference in Berkeley, California during Thanksgiving 1969 vacation. Planning began in October for the two day convention whose theme was rushing. There were twenty-seven brothers present from six western chapters — Chi, Epsilon, Lambda, Omega, Psi, and Theta Beta. Also present were Jack Payne, Western Regional Director, and Jay Thorpe, Grand Vice Regent.

Before the first session, the group had its photo taken on famed Sproul Hall Steps, scene of many student activities at the University of California. After lunch, Jack Payne delivered a keynote on "The Goals of the Convention." This set the tone for the entire conference. We then heard highlights of the last two years from each chapter. Following that were presentations by five chapters on their rushing activities.

Omega chapter began with comic slides of "Personal and Chapter Activities" by Ron Christiansen. David Ford from Chi chapter also stressed the personal aspect of rushing in his presentation. Psi chapter was represented by Roger Miller who expressed their chapter's political involvement as a method of recruiting new pledges. From University of Washington, John Booth discussed the merits of community projects in exposing their chapter to the campus community. Consisting primarily of married men, Lambda chapter concentrates on the serious side of pledging with weekly pledge tests.

Saturday morning, Ed Vaneks from General Motors Institute visited. After a wild Friday evening in San Francisco, the ritual workshop took place Saturday morning. Awards went to Omega for man-miles and to Chi for best presentation. All in all, it was an enjoyable and enlightening experience to learn and communicate with brothers of Theta Tau.

Olin Jones, Epsilon



# Southern Region

The Southern Regional Conference was held on Saturday, November 29, 1969 at the Holiday Inn in Starkville, Mississippi. Forty-four members representing Eta Beta, Mu, and Kappa Beta chapters, two guests, and two national officers attended.

The light attendance was a result of several unexpected conflicts involving university activities and transportation. Apparently the date for the convention was not a very good time for many of the chapters.

Despite the poor attendance, participation was excellent. The presentations were well prepared and the discussions which followed were both spirited and informative. Eta Beta chapter, winner of the man-miles award, also captured

the best presentation award. Their topic was "How Social Should Theta Tau Be?", and was given by Robert Dodds, Tom Collins, John Lube, and James Sikes.

The conference was a success for those who attended. The always beneficial contact with brothers from other chapters and with different ideas was supplemented by the lively competition for the best presentation award with its resulting general discussions. In addition, Brother Armstrong's and Brother Rey's comments and the workshops they led provided those who attended with a clear picture of Theta Tau as a national organization, and how best to aid its operation on a local level.

The conference adjourned after the first day because the presentations and other matters were finished, and the members left for their home chapters.

*Stan Whitfield, Kappa Beta*

# Central Region

The 1969 Central Regional Conference at Louisville exposed common and unique problems of all seven regional chapters. During the two days after Thanksgiving, 29 delegates from the six other chapters met with members from host chapter Delta Beta and discussed topics ranging from rushing and pledging to housing and alumni relations.

Regional Director Lawrence F. Feldsien addressed the opening luncheon assembly; Grand Scribe and Executive Secretary Robert E. Pope lead the chapter officers workshop and ritual workshop where he spoke on the operation of the central office and showed the standard forms and printed material available.

Each chapter lead a discussion session; Mu Beta Chapter received the Best Presentation Award for their session on Campus and Community Activities which was highlighted by a film and slides showing their house and campus.

Mrs. Lawrence F. Feldsien who accompanied her husband; Dean Harry C. Saxe, Speed Scientific School, University of Louisville; Professor Morton Walker, U. of L.; Professor Ralph Wales, Mu Beta's faculty advisor from General Motors Institute; and Stephen M. Thrasher, Delta Beta's faculty advisor were guests at the conference. John Stivers, host chapter conference chairman, and Delta Beta Chapter was assisted by their Little Sisters who served refreshments and threw a spaghetti dinner.

Departing delegates took home fresh ideas, new solutions to old problems and memories of a conference which they helped in making successful and enjoyable.

*John Stivers, Delta Beta*



*Central Regional Conference Delegates from Delta, Sigma, Phi, Epsilon Beta, Delta Beta, Iota Beta and Mu Beta.*



*Brother Pope and delegates during a discussion session at the Central Regional Conference.*

# Eastern Region

Regent John Horvath of Theta Chapter welcomed the delegates, outlined the Conference, and read a letter of greeting from Robert E. Pope, Executive Secretary.

Eastern Regional Director James W. Bradley showed and narrated the Theta Tau slide presentation which he titled "This Is Theta Tau."

Grand Outer Guard John M. Dealy outlined the purposes of the Regional Conferences.

The chapters presented made brief presentations of highlights during the past two years. Gamma Beta reported an increase in membership. Rho Chapter discussed social aspects of its operation and showed slides. Tau Chapter reported purchase of a chapter house. Theta Chapter discussed problems of a city campus.

# Northern Region

The meeting was called to order at 2:30 p.m. on October 31, 1969, by Alpha Regent Jim DeBenedet. Terry Panaz reviewed the program for the two days.

Chapters present were Alpha, Beta, Xi and Omicron. Each chapter reported on chapter activities and accomplishments.

The Chapter Officers workshop was opened by Brother DeBenedet. Brother Dodd led the Workshop and asked three questions: What is the roll of officers? What should non-officers do? What should the national Fraternity do?

Delegates divided into groups for discussion. The results of the discussion were: Officers should know their members, help them to become involved, and gain respect. Non-officers should become involved and take it on themselves to get work done. The national Fraternity should have more

Dr. Herman Beiber, Theta '54, Esso Research & Engineering Company, spoke on "Career Opportunities." Dr. Elmer L. Gaden, Theta '54, Adviser to Theta Chapter, spoke on "Curriculum Changes." A general discussion followed the presentations.

Dr. John M. Dealy, Zeta '58, in leading the Chapter Officers Workshop, reviewed the Chapter Officers Manual and forms provided by the Central Office. He emphasized completeness and punctuality in filing reports and forms.

James W. Bradley, Sigma '62, led a discussion of items for the good of the Fraternity. Gamma Beta suggested that the Budget Committee at the next Convention should review dues, costs, and portfolio composition. Gamma Beta also suggested that contact with the national Fraternity be improved, and direction be given to chapters on specific goals. The Man-miles Award was won by Gamma Beta Chapter. The Best Presentation Award went to Theta Chapter.

contact with the individual chapters to solve problems, etc.

Next, Brother Dodd told of the Chapter Officers Manual and said all officers should have one. Each officer present had one. He then told us how much stronger the Fraternity has become in the last ten years and introduced the manuals, pamphlets, and forms provided, and things such as slides that could be used for rushing. He told us how our alumni could help in rushing, etc., that we should volunteer services to national committees, and suggested we should help each other these two days to solve individual chapter problems. Brother Reynolds said that we have a goal all the time toward which the chapter should strive.

Chapter presentations were made by Omicron Chapter on rushing, by Beta Chapter on campus and community activities, by Xi Chapter on personal and chapter activities and by Alpha Chapter on pledge training.

The Man-miles Award was made to Beta Chapter. The Best Presentation Award was received by Omicron Chapter.

# Western Regional Director

Jack Payne has been appointed to the position of Western Regional Director. Garn Hatch, the former WRD, has assumed new duties as editor of The Gear. Jack is a graduate Mechanical Engineer from Lambda Chapter at the University of Utah. He graduated with a BSME in 1962 and an MSME in 1964 — both from the University of Utah.

Upon graduation Jack started his career with IBM in San Jose. His first assignment was in Manufacturing Engineering. He later was promoted into Quality Assurance management and eventually was placed in charge of Quality Assurance for the 2314 magnetic head process. He recently left IBM to become Director of Quality and Reliability Assurance for Caelus Data Products in San Jose.

Since leaving college, Jack has remained active in Theta

Tau. He served as Special Representative to California from 1964-1969. With the help of Brother Walt Burres (Lambda 1963), he was instrumental in reviving Epsilon Chapter at the University of California at Berkeley. Jack has attended almost every Regional and National Convention since joining the fraternity in 1961.

Jack took the big plunge and was married in May, 1969. He and his wife, Jan, spent a month honeymooning in Mexico and the Caribbean. They both enjoy sports and participate in basketball, softball and bowling leagues and also do a bit of waterskiing.

Jack enjoys meeting and working with engineering students and is sure he will find his work as Western Regional Director both challenging and rewarding.

# Professional Interfraternity Conference

Theta Tau was represented at the recent meeting of the Professional Interfraternity Conference by Charles E. Wales, Grand Regent, and Robert E. Pope, Executive Secretary.

The Professional Interfraternity Conference held its 1970 Biennial Meeting at the Cascades Meeting Center, Williamsburg, Virginia, on May 8 and 9.

The theme "Retention and Expansion" was developed through panel discussions on student chapters, alumni participation, ladies' auxiliaries, local professional interfraternity councils, and insurance programs. Contemporary campus conditions were given extensive discussion. Participating in this discussion were Messrs. Armand L. Zancchia and Tom Martin, student members of Alpha Kappa Psi from Old Dominion University.

The role of the PIC and its contributions to member fraternities was studied, and suggestions presented for restructuring the organization's program. An interim committee will be appointed to study proposed improvements. A special Meeting of the Conference is to be called before June 1 next year with fraternities urged to include student members among their delegates.

The Honorable Benjamin B. Blackburn, Sigma Delta Kappa, Congressman from Georgia's Fourth District, addressed the delegates and their wives at the Banquet on Friday evening.

The idea exchange exhibition, a regular PIC Meeting feature, included displays from several of the member fraternities. An inspiring paper titled "Why Fraternities?" was presented by Dr. Bernard B. Brody of Rho Pi Phi, Chicago, Illinois.

The opening session included special reports on recent federal tax legislation affecting professional fraternities and on the current Federal Trade Commission litigation involving fraternity insignia regulation. Results of the recent survey of professional fraternities were presented, and a new leaflet on professional fraternities was introduced.

Dr. Robert J. Beals, Sigma Phi Delta, of Cincinnati, Ohio, presided at the Meeting. Judge Joseph G. Maddox, Sigma Delta Kappa, of Atlanta, Georgia, was in charge of the program; and Meredith M. Daubin, Esq., Delta Theta Phi, of Washington, D. C., was in charge of local arrangements.

Elected as officers of the PIC for the coming biennium were Judge Maddox, President; Dr. William E. Koch, Jr., Xi Psi Phi, of St. Louis, Missouri, President-Elect; and Dr. Conrad A. Blomquist, Phi Delta Chi, Chicago, Illinois, Vice-President. Reelected to the Executive Committee were: Robert E. Pope, Theta Tau, St. Louis, Missouri, Secretary; Frank J. Brye, Alpha Kappa Psi, Indianapolis, Indiana, Treasurer; and Dr. Erwin Small, Omega Tau Sigma, Champaign, Illinois, Member-at-large. Also elected as Member-at-large on the Executive Committee was Alfred C. Cordon, Jr., Esq., Delta Theta Phi of Washington, D. C. Two immediate Past Presidents, Dr. Beals, and Dr. C. H. William Ruhe, Phi Rho Sigma, of Chicago, Illinois, will continue on the Executive Committee.

The Professional Interfraternity Conference, established in 1928, comprises twenty-six leading professional fraternities in eleven professional fields. These fraternities have initiated over 850,000 men through their more than 1450 student chapters.



*The officers and delegates of the Professional Interfraternity Conference who compose the Professional Interfraternity Conference. The biennial meeting was held at Williamsburg, Virginia. Theta Tau is a charter member of the Professional Interfraternity Conference. Brother Pope, 1st row, left; Brother Wales, 2nd row, left.*

# Contributors to Theta Tau Progress

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

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

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# The Executive Council --

has authorized a formal plan for

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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 36 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')."

# In Memoriam

GEORGE R. BENZ, *Kansas '25*, died March 5, 1970 in Bartlesville, Okla. He had retired as a manager in the engineering department of the Phillips Petroleum Company six years ago. He was a member of Tau Beta Pi and a mason. Surviving are his wife, a daughter, a son, his mother, two sisters, two brothers, and four grandchildren.

WINSTON E. BERGSMAN, *Minnesota '47*, died February 18, 1970, in Oklahoma City. He was a senior engineer-product design, for the memory products section, information devices department of the computer section, General Electric Co. He was 48. He served in the Navy from 1944 to 1947. Following graduation, he was employed by the University of Minnesota and by Syracuse University in the design and installation of audio-visual equipment, some of it in Iran, Greece and Turkey.

WILLIAM W. BISHOP, *Missouri at Rolla '48*, died November 22, 1968 in Kirkwood, Mo. He was district sales manager in the communications products department of General Electric Co. He was a member of the Crestwood Optimists and IEEE. Surviving are his wife, two sons and his mother.

HARRY C. BOLON, *Missouri at Rolla '29*, died recently at Fort Leonard Wood, Mo. He was a former district engineer of the water resources division, United States Geological Survey. He was also a member of Tau Beta Pi and an ROTC graduate. In May 1942 he was called into active military service and was involved in the construction of the Alcan Highway in Canada and Alaska. He was discharged a major in 1946. He was a registered professional engineer, a member of ASCE and a mason. Survivors are his wife, a son, a sister, three brothers, a stepdaughter, two grandchildren, four step-grandchildren.

PHILLIP A. CAMPREDON, *Michigan Technological University '17*, died October 1970 in Santa Fe, New Mexico. He worked with the state soil conservation service until his retirement in 1963. He served with the Navy in WWI. He was a graduate of the New Mexico School of Mines. He was a mason. Surviving are his wife, a son, three stepdaughters, and five grandchildren.

GEORGE MILES COLLINS, *California '11*, died September 27, 1969 in Hawaii. He had served as chief engineer for the City and County of Honolulu. From 1917 to 1957 he was superintendent and then trustee of the Bishop Estate. He was also appointed trustee of the Estate of James Campbell and became known as "Mr. Trustee" because of this association with the two largest land estates in the Hawaiian Islands. He was in the construction contracting business and was active as an appraiser. He was a life member of ASCE. Surviving are a son and three grandchildren.

DONALD DeFREMERY, *Massachusetts Institute of Technology '15*, died November 12, 1969.

DR. LEO F. DUGGAN, *Michigan Technological University '12*, died March 22, 1970 in Phoenix, Ariz. He was a member of the faculty at Michigan Tech from 1920 to 1954 when he was named dean of students, a position he held until his retirement in 1959. He was an honorary initiate of Beta Chapter in 1929 and continued his active interest in the fraternity since that time. In 1962 when the Beta Chapter house burned down, the present house corporation was formed with Dr. Duggan as president. Largely due to his effort the chapter is firmly situated in its present fine chapter house, which has been greatly appreciated by the chapter. During WWI he had served in the armed forces. He was also a member of Phi Eta Sigma, Phi Kappa Phi, Blue Key, ASEE and other educational societies. Brother Duggan is survived by his wife, a daughter, four grandchildren, two brothers and three sisters.

DEAN A. FALES, *Massachusetts Institute of Technology '14*, died March 5, 1969 in Kennebunkport, Me. Until his retirement in 1949 he had been head of the department of automotive engineering at MIT. Brother Fales was an early advocate of safety precautions in motor vehicle design and on the nation's highways. He started teaching at MIT a short time after his graduation there. As a civilian during WWI, he was in charge of the Motor Transport Corps. He had been a board member of SAE and of the AAA and was a founder and the first president of the Veteran Motor Car Club of America. After his retirement he served as a consultant to auto manufacturers. Surviving are his wife, a son, two brothers and a sister.

GEORGE A. DuTOIT, *Minnesota '10*, died February 14, 1969. Until his retirement in 1954 he had served for many years as vice president in charge of production and as a member of the board of Minneapolis-Honeywell Co. He is survived by his wife, four grandchildren and one great-grandchild.

JOHN F. FOUCALT, *Michigan Technological University '23*, died March 17, 1969 in Sun City, Fla. He served as a mining engineer on the Mesaba Range and as a highway engineer prior to joining The Cleveland Cliffs Iron Co. in 1941. He served as mine superintendent there and later as manager of Minnesota Mines. He was a member of AIME. Surviving are his wife, a son, two daughters and two grandsons.

JOSEPH H. FLATHER, *Massachusetts Institute of Technology '22*, died in 1969.

GUY S. FRISBIE, *Massachusetts Institute of Technology '26*, died June 22, 1968 at Sea Island, Ga. He is survived by his wife.

BENNIE W. GANDRUD, *Minnesota '21*, died July 14, 1970 in Tuscaloosa, Ala., where he had lived since 1923. Until his retirement in 1955 he did research for the U. S. Bureau of Mines. He is survived by his wife, a son and two brothers.

FRED R. GOODNIGHT, JR., *North Carolina State University at Raleigh '66*, died August 19 1969 at Winston-Salem, N. C. He was a metallurgical engineer with the Newport News, Va., Shipbuilding Co. Surviving are his parents and a sister.

HOBART M. GRAY, *Ohio State University '25*, died June 19, 1969 in Columbus, Ohio. He was a retired district engineer of the U. S. Bureau of Public Roads. Surviving are his wife, a sister and a brother.

ALEXANDER HARVEY, *Massachusetts Institute of Technology '21*, died in January, 1968.

JOHN HEINRICH, *Kansas '24*, died February 20, 1969. Until his retirement in 1963, he had served 37 years as street lighting engineer for the Kansas City Power and Light Co. Brother Heinrich had been active in Boy Scout work, was a member of the Mic-O-Say tribe, and in 1960 was awarded the Silver Beaver and the National Lutheran Scouting Lamb award. He is survived by his wife, a son, a sister and three grandchildren.

LEONARD W. HENRY, *California '21*, died July 2, 1969 in Victoria, British Columbia, Canada. He was a geologist for 40 years in foreign service in Panama, Colombia and Venezuela for the Standard Oil Co. of California. He was a mason. Brother Henry was a nephew of George D. Loudback, a founder of Epsilon Chapter and second Grand Regent of Theta Tau. Since retiring he had lived in Walnut Creek, Calif. Surviving are his wife, a brother and a sister.

ARTHUR C. HUMEL, *Michigan Technological University '21*, died March 2, 1970.

FRED P. JACQUES, *Kansas '29*, died January 28, 1970.

GAROLD A. KANE, *Kansas* '31, died November 30, 1967 in Minneapolis, Minn. He was vice president and senior consultant of Northern Ordnance Division of EMC Corporation. He had previously served as president of Northern Ordnance. His accomplishments in the development of Naval weapons and automatic controls gained wide recognition throughout the Navy, including the Distinguished Public Service Award by the Secretary of the Navy in July, 1956. During his school years he had served as regent of Zeta Chapter. Surviving are his wife and a son.

ROWLAND B. KING, *Michigan Technological University* '16, died March 12, 1969 in Victoria, British Columbia, Canada. He started his mining career as an apprentice assayer in Spokane, Wash., in 1903. After ten years as an assayer in various locations in western United States and British Columbia, he entered what was then called Michigan College of Mines. After graduation he was employed for brief periods in Montana and British Columbia before entering service in WWI. He was commissioned at the 4th EOTC at Camp Lee, Va. He was discharged in 1919 as a 1st Lt. of Engineers. After the war he set up a mining and metallurgical consulting practice based in Spokane. In 1939 he joined the exploration department of Sunshine Mining Co. From 1941 to 1947 he was resident manager of the Manganese Division of Sunshine Mining Co. at the Crescent Mine near Port Angeles, Wash. From 1947 until retirement in 1958 he managed the Sunshine Exploration Division office in Spokane. He was a member of Tau Beta Pi and of AIME. In concluding a round robin letter some ten years ago, which was sent through 15 classmates of 43 years before, Brother King wrote: "... My memories of our three short years at Michigan College of Mines are still pretty sharp and among the most pleasant of my life. I wonder how many colleges have as closely knit a student body and a fraternity group as we had. I will be awaiting the bundle of letters from all of you with keenest interest ..." He is survived by a son and two grandchildren.

RAY E. LAWRENCE, *Kansas* '25, died August 13, 1970. His work was primarily with Black and Veatch, consulting engineers, having managed a variety of major engineering projects for cities, industries and governmental agencies throughout the United States and other countries. During WWII he served with the Offices of the Quartermaster General and the Chief of Engineers in the Army. He was a member of several other engineering societies, including Sigma Tau and Tau Beta Pi. He was a mason, a member of the Kansas City Chamber of Commerce and the Kansas City Philharmonic Association. He was registered as a professional engineer in seven states. Surviving are his wife, a son, a daughter, his mother, a brother, and two grandchildren.

JULIAN T. LEONARD, *Massachusetts Institute of Technology* '18, died in August 1969.

H. STANLEY LOEFFLER, *Minnesota* '15, died June 8, 1970 in Salt Lake City, Utah. Prior to his retirement in 1960, he was assistant chief engineer for the Great Northern Railway. He was also a member of NSPE, ASCE and a past president of the American Railway Engineering Association. Surviving are his wife, a son, two step-sons, a brother, a sister, and 13 grandchildren.

REX LUCAS, *Kansas* '24, died January 11, 1970 in Independence, Kansas. He was Montgomery County Engineer from 1938 until his retirement two years ago. Surviving are a son, a daughter, a brother and two sisters.

DUANE O. MAIN, *Kansas* '39, died April 17, 1970 in Dallas, Texas. He had lived in Washington, D.C. until his retirement a year ago from the U. S. Naval Oceanographic Office after 29 years service. At the time of his retirement, he held a key cartographic position in the aeronautical division of that office. During WWII he served as a naval lieutenant. Brother Main was also an accomplished pianist and organist. Surviving are his wife, three daughters, a son, a brother and his mother.

FRANKLIN W. MARQUIS, *Ohio State* '06, died in April 1970.

RUFUS HAROLD MILNE, *Minnesota* '14, died in January 1967. He had worked on a surveying crew for the Northern Pacific Railroad until joining the Army in WWI. He served as an officer of infantry. After the war he moved from Minneapolis to Seattle.

He spent much of his life as a salesman and at various times had a business of his own. He was very active in his church, and rose to the position of First Reader of one of Seattle's largest Christian Science churches. He is survived by his wife and a daughter.

CAPT. JOHN H. MOORE, *Minnesota* '24, died August 4, 1970 in Fayetteville, Ark. He was a retired mechanical engineer and had retired from the naval reserve. During WWI and WWII he had served on active duty with the Navy. Survivors are his wife, a stepson, a sister and a brother.

DONALD J. PARENTEAU, *Minnesota* '51, died November 25, 1968 in Savannakhet, Laos. Following graduation he worked a year with North American Aviation in Los Angeles. He then accepted a commission and served three years in the Navy. He subsequently became a Navy civilian employee and spent the greater part of his time during the last ten years in Southeast Asia. He had been living in Bangkok, Thailand and more recently in Laos. He was killed in a military aircraft accident near Savannakhet, Laos; the plane apparently caught fire in the air and crashed. He was buried in Laos. Surviving are his wife, seven children, and his parents.

HUBERT L. PASCOE, *California* '20, died July 8, 1969 in Lakeland, Fla. For the preceding 25 years he had been manager of the Phosphate Mine near Nichols, Fla. Brother Pascoe had been a sponsor of Lambda Chapter with the national fraternity during this time while living in Salt Lake City. He is survived by his wife and three children.

COY V. PATTERSON, *Kansas* '23, died October 18, 1968. He had lived in Kalamazoo, Mich. since 1932. Two years after graduating from college with a chemical engineering degree he had joined the Upjohn Co. as a salesman in Kansas City, Mo. He remained in the sales division until 1943, when he became a vice president and director of sales. Shortly thereafter he became vice president and director of production. In 1951 he was appointed executive vice president, which post he held until his retirement in 60. He was a mason and member of the Episcopal Church. Survivors are his wife, two daughters, and five grandchildren.

ROBERT JAMES PYLE, *Columbia* '22, died July 27, 1968 in Houston, Texas.

CHARLES H. REDMAN, *Michigan Technological University* '29, died May 25, 1969 in St. Charles, Illinois. He obtained a bachelors degree in mining engineering and later a masters degree at Purdue in mechanical engineering. For several years he followed an engineering career. Returning to school at Marquette University, Milwaukee, he obtained his LL.B and JD degrees in law and entered practice as a patent attorney, broadening his practice in St. Charles to include general law. During WWII he served on the Inspector General's Staff of the Army. He was a director of several corporations. He was a member of the Optimists Club, the Veterans of Foreign Wars, the American Legion, and was a mason. He is survived by wife, a son, a daughter, four grandchildren and a brother.

SCOTT T. RILEY, *Colorado School of Mines* '64, died March 24, 1970 in Los Angeles, Calif. Following graduation, he was employed by Chevron Oil Co. as a petroleum engineer in New Orleans. A year later he returned to Denver where he was employed as a petroleum engineer with Midwest Oil Corp. In 1959 he had begun flying and as the years passed he continued to become more interested in flying as a career and as a result of this, in 1967 he received an assignment to United Air Lines Flight School in Denver where he earned his ratings to become an air transport pilot for United Air Lines. At this time he was assigned to their base of operations in Los Angeles, Calif., where he continued his work until his death. He is survived by his wife, a son, a daughter, his mother and father and a brother.

MAURICE A. ROCHE, *Utah* '19, died October 28, 1969 in Napa, Calif. Prior to his retirement in 1962, he was employed with the Hudson's Bay Mining and Smelting Co. in Canada where he served as assistant vice president in Winnipeg. He is survived by his wife, three sons, three daughters, 31 grandchildren, two brothers and two sisters.

WILLIAM PAUL SHOPMEYER, *Minnesota '65*, died February 12, 1970. He was employed with Control Data Corp. in computer systems work.

WILLIAM K. SPENCE, *Illinois '22*, died in May 1967. He served in sales management and personnel work with several corporations.

LEONARD A. TARKINGTON, *Case Institute of Technology '69*, died March 13, 1970 in an automobile accident near Doylestown, Pa. At the time of his death he was employed in field engineering with Philco Ford at Philadelphia. He is survived by his parents, a brother and two sisters.

JOHN R. VOIGHT, *Syracuse '44*, died recently. He was executive assistant to the president of Carrier Air Conditioning Corp. He is survived by his wife, three daughters, a son, and his mother.

HAROLD J. WASSAN, *Minnesota '14*, died last year in Conway, Ark. He was a geologist for Dutch Shell Oil Co. in Venezuela for several years. Later he conducted a consulting practice in New York City, until he retired twenty years ago. He then operated Wasson Farms, a dairy operation of considerable note. He served in the Army as a captain during WWI. He is survived by two sons, two daughters, a brother, and 14 grandchildren.

CURTIS W. WEISS, *Wisconsin '66*, died April 25, 1970 of skiing injuries in March at Aspen. He had appeared to be making an excellent recovery from the injuries when again stricken and further surgery was performed. He died three and a half weeks later. Brother Weiss held bachelor and master degrees in civil engineering. Since graduation he was employed by Globe Engineering Co., Chicago, Ill. He is survived by his parents.

OSCAR F. WOODRICH, *Minnesota '08*, died June 29, 1968.



## Alumni News

### Frank W. Edwards Retires after Varied Career

Concluding 42 years of accomplishments in engineering, education and private industry, Frank W. Edwards, *Omicron '28*, president of Limbaugh Engineers, Inc., of Albuquerque for the past six years, retired on October 24, 1970.

His professional career included employment in industry 4 years, in government 12 years, in engineering education 9 years, and in private practice of engineering 17 years.

He attained the B.S. degree in general engineering in 1928, an M.S. degree in hydraulics in 1930, and a professional degree, Civil Engineer, in 1944, all from the University of Iowa.

His employment began in industry in 1928 in Dubuque, Iowa. In 1932-33 he was with the U. S. Bureau of Agricultural Engineering in Iowa City. From 1933 to 1943 and again from 1945-46 he was with the U. S. Corps of Engineers on varied programs. Brother Edwards was a professor of civil engineering at several colleges from 1943 to 1953. From 1953 to 1970 he was in supervisory work in private engineering firms.

He has served in several capacities in ASCE, NSPE and the Western Society of Engineers, has received many awards and is listed in *Who's Who in Engineering*, *Who's Who in America*, *American Men of Science*, and others. From 1948 to 1952 he served on the Theta Tau Executive Council.

Brother Edwards has been especially recognized for his work in hydraulics.





# George Dodd, New Assistant Head of Computer Technology

Dr. George G. Dodd, *Kansas '60*, has recently been named an assistant head of the Computer Technology Department at the General Motors Research Laboratories.

In his new position, Brother Dodd will be responsible for computer research and for the development of a time-sharing system to support graphic consoles being used for computer-aided design and numerical control.

Prior to assuming his new post, Dr. Dodd was a senior research engineer in charge of computer system architecture and coordination. Most recently, he played a key role in the development of an "associative programming language" which provides an efficient system for handling, interrelating and filing large amounts of data.

Before joining GM Research in 1964, he was a research associate at the University of Illinois. Dr. Dodd received the B.S. degree in electrical engineering from the University of Kansas and the M.S. and Ph.D. degrees in the same field from the University of Illinois.

Brother Dodd is Grand Inner Guard of Theta Tau. He also belongs to the IEEE, NSPE, the Codosyl Data Base Task Group, and is chairman of the Detroit chapter of the Association for Computing Machinery.



## New Members of National Academy of Engineering

Joining with charter members Dr. Simon Ramo, *Utah '33*, and Dr. Harold K. Work, *Columbia '25*, of the National Academy of Engineering, are three Theta Taus newly elected to membership in the National Academy: Robert Alexander Bowman, *Arkansas '29*, Robert Charles McMaster, *Carnegie Institute of Technology '36*, and Gerard Addison Richards, *Carnegie Institute of Technology '34*.

Brother Bowman is vice president of the Bechtel Corporation, San Francisco, California. He was cited for his contributions to the mechanical and thermal design of nuclear power plants and to the management of nuclear and conventional electric generating stations. He holds the BS degree in mechanical engineering.

Associated with the Bechtel Corporation since 1951, he previously served as manager, Atomic Power Division, Engineering, of Westinghouse Electric Corporation.

In 1969 Brother Bowman was named to the Engineering Hall of Fame at the University of Arkansas. He is the 1965 recipient of the George Westinghouse Gold Medal Award in recognition of his work in the steam power plant field. He is a fellow of the ASME and a member of the IEEE, American Nuclear Society and Tau Beta Pi.

Dr. McMaster is regents' professor of welding engineering and electrical engineering at Ohio State University, Columbus.

Brother McMaster was cited for his contributions to nondestructive testing theory and practice and for pioneering industrial applications of sonic energy. He holds the BS degree in electrical engineering (1936) from Carnegie Institute of Technology and the MS (1938) and PhD (1944) degrees in electrical engineering from California Institute of Technology. He has been associated with Ohio State University since 1955.

Dr. McMaster served as the Marburg lecturer (1953) and the Mehl lecturer (1950) of the American Society for Testing and Materials and the Adams lecturer of the American Welding Society (1965). He is the recipient of

the Coolidge Honor Award for nondestructive testing (1959), the De Forest Award of the Society for Nondestructive Testing (1959), and the Western Electric Fund Award for Excellence in the Instruction of Engineering Students (1957).

He is former president of the Society for Nondestructive Testing and a member of the IEEE, ASTM, American Welding Society, American Society for Engineering Education, Tau Beta Pi, Eta Kappa Nu, Phi Kappa Phi, and Sigma Xi.

Dr. Rohlich is director of the Water Resources Center and the Institute for Environmental Studies at the University of Wisconsin, Madison.

Brother Rohlich was cited for his engineering and educational contributions to improving man's environment. He holds the BS degree in civil engineering (1934) from Cooper Union School of Engineering, the BS (1936) and MS (1937) degrees in civil engineering from the University of Wisconsin, and the PhD degree (1940) from the University of Wisconsin. He has been associated with the University of Wisconsin since 1946.

Dr. Rohlich is the recipient of the Harrison Prescott Eddy Medal of the Water Pollution Control Federation (1955) and the George Warren Fuller Award of the American Water Works Association (1968). He is a fellow of the ASCE and a member of the Water Pollution Control Federation, American Water Works Association, NSPE, American Society for Engineering Education, and Sigma Xi.

Election to the Academy is one of the highest professional distinctions that can be conferred upon an American engineer and honors those who have made important contributions to engineering theory and practice or who have demonstrated unusual accomplishments in the pioneering of new and developing fields of technology.

The National Academy of Engineering was founded in 1964 as a private organization of distinguished engineers dedicated to furthering technology for the benefit of mankind.



# Chapter News

## ALPHA

*University of Minnesota, Minneapolis*

Alpha chapter's most important contribution to the University of Minnesota campus is to maintain a high standard of professional interest among all Institute of Technology students.

Being basically a commuter campus, I. T. suffers from a tendency towards apathy in regard to campus affairs. Students in general make no effort and are given few opportunities to increase their social and professional contacts. The chapter affords more opportunities for its members to be well-rounded and active members of the University community.

The Professional Development and Leadership Program gives the member an insight into various aspects of industry and business, and an idea of what an engineer will expect upon graduation. Our social exchanges give us an opportunity to show the rest of the community that not all engineers wear white socks and carry their slide rules on their belts.

Spring quarter is the most active time for Theta Taus on campus due to Engineers Week. Involvement in this activity has brought Theta Tau the All-Participation Trophy eight out of the last ten years.

Fall quarter we are also quite busy with Homecoming, Founders Day, and the Regional Conference. For Homecoming '69, we built a lawn display with the help of Kappa Kappa Lambda, a campus sorority, and co-hosted an after-game party with them.

This is the first year Alpha chapter involved itself in Homecoming other than having a party, but members were enthusiastic and it is expected we will continue to participate in it in future years. The Northern Regional Conference was held here on October 31-November 2, 1969, and members worked hard to make it a success.

Several brothers participated in a program which involved appearances at high schools throughout the state to interest these students in the engineering programs of the University of Minnesota. Alpha chapter is attempting to have a monthly column published in the Institute of Technology magazine, the *Technolog*, to inform the campus of our activities and achievements. The fraternity also has members on the Professional Fraternity Council and Tech Commission, the policy determining body of I. T.

In conclusion, Alpha Chapter contributes to the University by creating more interest in campus activities at an otherwise somewhat apathetic school.

—Loren D. Hill  
*Corresponding Secretary*

## BETA

*Michigan Technological University, Houghton*

Michigan Tech, being a small college of about 4500 students, has only nine fraternities. Of these nine fraternities, Theta Tau is probably one of the most recognized

when student and community affairs are mentioned. The village of Houghton is supported predominantly by Michigan Tech. Everything the school does affects the community. Consequently, Theta Tau plays a major role in shaping campus and community affairs. In the past year we promoted and sponsored a campus and community drive for the United Fund. This was highlighted by an area-wide benefit dance held in the University Union. With participation from local merchants and advertising on local radio we were able to net almost \$500.

On campus, Theta Tau is very active in student government: The student council, the Inter-Fraternity Association, the American Society of Military Engineers, the Student Court, the Michigan Tech Lodge and the Varsity Club. Most of the members are active in their respective professional societies.

Besides being in student organizations, Beta Chapter is an avid contender in all intramural sports. While not devoting all our time to intramural sports, we find time to participate in the biennial Engineer Show, Arts Festivals, and projects in the Institute of Mineral Research.

Beta Chapter not only benefits the community and school, but enriches itself in the process by the work the members do on these projects. Active participation in intramural sports, student government and organizations, community activities and engineering shows enables us to be better H & T's.

—John A. Richards  
*Corresponding Secretary*

## DELTA

*Case Western Reserve University, Cleveland*

The brothers of Delta Chapter have always been very active in working with the School of Engineering here at Case. We believe that this is probably the most important activity which we carry on and, by relating this meaningful work to our professional development program, we find that we can be a highly effective force on campus.

For several years we have carried on discussions concerning the engineering curriculum with the Deans of the School. These dialogues have resulted in substantial changes in our engineering core courses besides providing an opportunity for informal conversation. Last year, due to the success of these meetings, the Deans of the School instituted a weekly "Dean's Forum" which is open to everyone. Here students can air complaints, make suggestions, or just talk with the Deans of the School of Engineering and of Case.

An extremely important and significant event was the formation of the Case Assembly. This body, which includes both students and faculty (among them members of Delta Chapter and our faculty advisor) is the chartered governing body for Case Institute of Technology. It is charged with complete control of the school and has the power to act on matters of curriculum, course content, student housing, and promotion and tenure of faculty; we believe that

ours is the first school in the country to turn over such extensive powers to a student-faculty group.

We are planning for our second professional society workshop. At this workshop we assemble with the officers of all the professional societies on campus, along with representatives from the industrial chapters and together we explore the potentialities of these organizations through talks, panel discussions, and open forums. Previous workshops were quite successful and we are looking forward to an even better one this spring.

The professional societies publish an informative booklet for freshmen. This booklet, handed out at orientation, describes the purposes of professional societies in general and then covers the activities of all the campus societies. In this way the freshmen are introduced to the idea of professional societies much earlier than was the case previously, making them aware of the opportunities which are open to them. This helps to raise the level of activity of all of our professional societies.

Plans for a paper contest to be held in the spring are also under way. Sometimes these contests draw very little enthusiasm from a student body which has an already heavy workload but we hope to fire up a lot of creative people by offering a first prize of approximately \$500. While this project is still tentative, we are very optimistic about the outcome.

Another activity coming up soon is a pledge-active service project for the school of engineering. Last semester we gave about 200 man-hours of work, doing manual labor such as cleaning up labs and moving equipment. Besides being a great way for the pledges and actives to get to know one another, this really helps out the school. Last semester's project was a lot of fun and we're looking forward to this one.

We are extremely proud of our record of service and assistance to the school of engineering. In this way we gain higher quality education while instilling in our members a sense of professionalism and active leadership.

—James Joy  
Corresponding Secretary

## ZETA

University of Kansas, Lawrence

Zeta Chapter of Theta Tau significantly affects the School of Engineering at the University of Kansas campus in many ways. The influence of Theta Tau is particularly felt on the hill in the following areas: the Engineering Council, the annual Engineering Exposition, the engineering faculty, student-faculty relations, professional and honor societies, and Engineering Week.

The Engineering Council is the governing body of the engineering students. Several members of the Council are Theta Taus. All professional and honor societies may send representatives to the Council. The Council's primary function is organization and operation of the annual K.U. Engineering Exposition, the gala engineering show of the year. Theta Tau, besides running the exposition, puts up the entranceway, a major engineering structure usually requiring a minimum of two months to plan and build. Theta Tau also annually enters a room exhibit in the Exposition. Our last exhibit, a working model of a Boeing 737 jet simulator, won first place. We proudly display the trophy in the entranceway of our house.

Besides upholding student relations in the engineering school, Theta Tau is also well represented on the K. U.

faculty. Several Theta Taus are in prominent faculty positions. Currently the assistant dean of the Engineering School along with the chairman of the Civil Engineering Department, and the head of the Student-Faculty Relations Board are Theta Taus.

Several members of the chapter are also active in their respective honor and professional societies. In the last year, several prominent positions were held by Theta Taus in the student chapters of ASCE, IEEE, AIAA, AICHE, ASME, ASTM, Sigma Tau and Tau Beta Pi.

We feel that Theta Tau is a very effective and integral part of the University of Kansas School of Engineering. With continued enthusiasm and effort we will further widen our influence and improve our relations with the Kansas University campus.

## LAMBDA

University of Utah, Salt Lake City

Engineering Week is particularly used to develop interest and improve enrollment in Utah engineering colleges thru the committee's decision to involve high school students in the yearly activities. This phase of the activities was directed and carried out by Lambda Chapter.

Two members were assigned to each high school for advertising and obtaining student releases from school boards and individual teachers. Programs and tours were also planned for the high school student's benefit.

The students attended a panel discussion made up of local university engineering professors as well as university students. The high school students asked questions from the audience concerning engineering curriculum, entrance requirements, and the future opportunity of an engineer.

Success was noted by the large attendance of high school students and their favorable comments. In addition Theta Tau received praise from the committee members, especially from the Associate Dean of the University of Utah Engineering College who made a special effort to thank Lambda Chapter for their participation.

Corresponding Secretary  
—Ronald E. Lund



LAMBDA SPRING '70 INITIATES

L. to r.: Ray Gary Phipps, David Neal Lewis, Richard Larry Gilson, Bruce P. Dailey, M. Scott Barnes.



## MU

University of Alabama, Tuscaloosa

Theta Tau at the University of Alabama has quite an impact on the School of Engineering. Our professional development programs are the largest crowd-drawing functions in the school. We feature speakers from other schools and universities and from private industry throughout the country.

Mu Chapter members fill the important political posts at Alabama; president, vice-president, secretary-treasurer and Engineering News editor, for the School of Engineering; and senators to the student government association, the governing body at the University. All Theta Tau members belong to their respective tech societies where quite a few are officers. We also have members in all departmental honorary societies.

Theta Tau is very active in helping to sponsor Engineers Week in the spring. We are responsible for many of the projects which attract high school students to the campus. We are also active participants in the sports program at Alabama. Having an excellent football team, we give many of the other fraternities a rough game. Having finished very strong in athletics last year, we expect to do even better this season.

Theta Taus always have their spot in the Homecoming Parade with a beauty representative and "pledge skit." We again have a fine pledge class this year. At Alabama, Theta Tau looks to new membership for future leaders.

—Donald B. Leonard  
Corresponding Secretary

## XI

University of Wisconsin, Madison

Xi Chapter has established itself as a leader on the Engineering Campus and on the campus as a whole. Xi last semester met the challenge of having two major events, Engineering Exposition and Campus Carnival (an all-campus charity event) within a week of one another. With tremendous cooperation from all the brothers and pledges, Xi won first place overall and first place for organizations in Engineering Expo. After this success, Xi Chapter kept driving along with Alpha Gamma Delta sorority. Together we took three first prizes and three second prizes along with second place overall in the event.

Xi Chapter is also excelling academically with about one third of its members in honor societies. In addition to this, Xi had approximately a 3.00 grade point average (4.00 scale) last semester.

Xi is also emerging as the major political force on the Engineering Campus. We now have five representatives of a total of 22 on Polygon Board (an engineering student government). In addition many brothers are active on committees for course changes.

And what of the future? Well, Xi is presently considering a program for incoming freshmen in engineering. In addition we are considering donating some time to the Big Brothers of America.

—James E. Jacques  
Corresponding Secretary

## OMICRON

University of Iowa, Iowa City

Omicron Chapter rules the U. I. College of Engineering! Although this statement may not be completely true—

it's not far wrong. Omicron brothers are active in every engineering organization and committee on campus.

Each year Iowa engineers construct a monument for Homecoming and mount it in the center of the campus. Last year's monument was a thirty foot high wooden tower with a hawk (Hawkeyes) which "climbed" the tower and then catapulted down, squashing an Indian Hoosier. Immediately after the Homecoming game the monument was burned with everyone watching, a tradition at the University. The chairman of the monument committee was a Theta Tau brother and ninety percent of the work was done by Theta Tau brothers.

Omicron Chapter built a float for the Homecoming parade. We are hoping to spread the reputation of Theta Tau not only in the College of Engineering, but also throughout the campus.

This year's officers of the Associated Students of Engineering, the governing body of the College of Engineering, are brothers of Omicron Chapter. Other organizations which have Omicron brothers as chairmen are too numerous to recount here. The significant fact is that the members of Theta Tau are the people in the Engineering College who are doing things—not the ones sitting back watching.

At the University of Iowa the week of Saint Patrick's Day is christened MECCA (mechanical, electrical, chemical, civil, aeronautical-now industrial) Week. The week begins with an engineering open house Saturday and Sunday. Students from surrounding high schools and colleges are invited to tour the facilities of the Engineering College and to see displays sponsored by the various departments.

A stone hunt traditionally begins Sunday evening and lasts until late Wednesday or early Thursday. The "MECCA Stone" is hidden by graduate student engineers and clues that lead to other clues and eventually to the stone are solved by undergraduate students. Thursday night of MECCA Week there is a smoker where each department presents a skit, and Saint Patrick and Queen candidates are voted on. A formal dance, the MECCA Ball, tops off the week's activities on Saturday evening with the crowning of the Queen and Saint Patrick. Last year all MECCA committees were chaired by Omicron brothers.

The lawyers on campus claim Saint Patrick as their patron saint, also. To remind them that Saint Patrick was an engineer, last MECCA Week a three ton concrete Shamrock was "planted" immediately outside the Law Building. To protect the innocent I won't say who conceived and executed that idea, but could it have been Omicron brothers?

—Robert Cook  
Corresponding Secretary

## RHO

North Carolina State University, Raleigh

In the past few years the membership of Rho Chapter has been constituted mainly of seniors and graduate students. Consequently, last year the chapter lost one-half of its active members through graduation. However, fifteen new brothers were inducted into the fraternity last spring. With the youthful enthusiasm of these new brothers, a new pledge class of thirteen, and the experienced leadership provided by the older brothers, Rho Chapter of Theta Tau is looking forward to a great year.

Last year Rho Chapter initiated a tutorial program for students from nearby Shaw University who were encountering difficulty with engineering courses which they were taking at North Carolina State. Brothers took turns in aid-



ing these students. The brothers of Rho Chapter are active in technical societies, school publications, and the governing body of the School of Engineering. Rho Chapter participates in the Engineer's Fair each spring by manning an information booth and concession stand. The brothers are, of course, active participants in exhibits given by the various engineering departments at the fair.

Each year before Christmas vacation the Chapter sponsors a Christmas party for a group of children at the North Carolina School of the Blind. This is considered the most rewarding and worthwhile project of the Chapter.

For our Founder's Day Banquet our speaker was Dean Henry B. Smith, a former regent of Rho Chapter and the Associate Dean of Engineering Research and Graduate Studies. He spoke on how Theta Tau has affected his life and profession.

Plans have already been made for the annual trip to the mountains of western North Carolina. Since the chapter has no house, this trip means a great deal to the brothers and their dates. It not only gives the brothers a chance to get better acquainted with the pledges, but also provides a means by which the bond of fraternal fellowship is strengthened.

Other projects include a float in the Homecoming Parade and a craft in the Neuse River Derby. The latter was a pledge project initiated last spring. After building a boat which was to cost no more than five dollars, the pledges successfully navigated the three mile race.

Recently a new policy has been initiated with regard to our alumni. Rho Chapter is making a strong effort to recontact alumni by means of a newsletter, and update the alumni file.

—David C. Feslerman  
Corresponding Secretary

## SIGMA

Ohio State University, Columbus

Theta Tau at Ohio State has a unique position as an undergraduate professional fraternity. Sophomores are forced to live in university dormitories unless they sign up for fraternity housing and Theta Tau falls under this category. (How nice of the administration to give sophs such a freedom of choice!) Fortunately, however, we are not in the category of a social fraternity and are not limited by university restrictions such as having to have a house mother, which to us appears to be an unnecessary expense that would prohibit a lot of good members from being Theta Taus.

As a service for the college of engineering, the chapter holds a tutoring session for struggling freshman engineering students in mathematics, chemistry, physics, and engineering drawing. In return the college office is very cooperative in giving us information about rushees. They also grant us, and us only, space in the college office for a display. Plans are also in the making for setting up displays in the engineering dormitory and in an engineering building on campus. The dean of the college of engineering, an honorary member, helps us in these endeavors.

The biggest item in the minds of Sigma's members has been our plans to remodel the house. The chapter raised its fees so that \$1500 is available to replace well-worn carpet and furniture for the living room, TV room, hall, and stairs. Carpeting and paneling are also badly needed for our library.

—John A. Wehner  
Corresponding Secretary

## TAU

Syracuse University, Syracuse

Nineteen-seventy is the centennial year of Syracuse University as a privately owned institution of higher education. This year is also the forty-fifth year of Theta Tau on campus. For a predominantly liberal-arts university, which is dominated by strong social fraternities, Tau Chapter has traditionally been in the background. We infrequently attract the attention of the total campus community, and although interested in local affairs, as a group we have little sway concerning campus policy. Within the College of Engineering, which is highly regarded throughout the country, our fraternity is recognized as a forceful extension of professionalism in engineering matters and secondly, a vehicle of social involvement. As such, Tau Chapter provides all Syracusean engineers with a means to enhance their formal education with social activities.

Currently our members are preparing for the school year, preparing for the upper-class rush, and actively soliciting funds and support for a chapter house.

—Philip Terry  
Corresponding Secretary

## PHI

Purdue University, West Lafayette

Involvement in engineering activities is now the particularly significant effect of Phi Chapter here at Purdue University. We are also engaged in programs which aid the engineering campus.

Many of the brothers have been very active in the founding of an Engineering Council here. Our mimeograph machine was used to print out the Engineering Council "ballots" to find the response of engineering students to the disorders on campus last year. About half of the house personally passed out these ballots on campus.

Several members are active in engineering honoraries and there is at least one member in every professional engineering society on campus.

The chapter participated in a high school visitation weekend last semester and invited delegates of the Phi Eta Sigma national convention to stay over night at the chapter house. One of the aeronautical engineering classes observed one of the moon launchings in our living room. In the future we are making plans with the Society of Automotive Engineers to co-sponsor the Strickler-Jenkins Drag Clinic. We are planning more professional programs in conjunction with rush.

The current chapter news concerns expansion. We have received the option to buy a house directly behind our chapter house and we have made a bid for the next door annex we have been renting for a couple of years.

The engineering students and faculty think of Theta Tau as an engineering organization whose influence is felt in most engineering undertakings on campus, and whose influence is great on the fraternity system as a whole. (Phi Chapter sets a good example by consistently placing in the top five fraternities scholastically.) This proves that a fraternity can be active and studious at the same time.

—Robert H. Lyons, Jr.  
Corresponding Secretary

## CHI

University of Arizona, Tucson

Chi Chapter has long realized the need for its members to be involved not only in the college community but also in the outside community.

The chapter as a whole spans the academic engineering campus community and serves as the focal point for all engineering college-wide activities. Our brothers serve as tour guides for high school seniors on Senior Day and introduce these students to the complexities of their chosen career fields. During Engineering Week, our brothers aid in and direct many of the activities. Many of our brothers were in-



Chi Founders' Day Picnic



Founders' Day Picnic at Brother Maram's

volved in a recent Dean's Forum which allowed the students to discuss problems with the engineering dean in the hope of improving student involvement in the educational process.

Individual involvement, encouraged by the chapter's "whole man concept," yields the greatest return. The concept is one of expanding the sphere of involvement to all aspects of both campus life and outside activities. Here is where we are extremely proud of our brothers. They have given their time and efforts to become leaders of scout troops, youth groups, and church groups in the outside community. Within the college, our brothers are leaders of technical societies and strive to serve the entire college in whatever way possible from student senators to committee chairmen.

Founder's Day is celebrated each October in a traditional picnic for actives, faculty and alumni of the Tucson area. Here we are at the home of Brother and Mrs. Andrew Maram, a Chi alumnus. The food was prepared by Brother Leon Afek and several alumni wives.

*Richard A. Johannsen  
Corresponding Secretary*

## PSI

Montana College of Mineral Science and Technology, Butte

At Montana Tech, Psi Chapter's greatest contribution has been in the area of student government. Recently, before student body elections, Psi's candidates initiated an open meeting between students and the faculty. All candidates for office, many faculty members and students participated. The meeting served to clear the air on many subjects and to establish better communications between the students and the faculty. We hope that such meetings can be held regularly in the future.

Though Montana Tech is a small school with an enrollment of about 900, its growth in the past three years has been rapid. From this growth our chapter hopes to draw many more members, increasing our size and also expanding our activities. Rush activities consist of a traditional hayride to acquaint prospective pledges with the members. Pledges are in charge of homecoming float and keeping the chapter room in shape.

In conjunction with Tech Booster Club activities, the chapter has volunteered its services on a petition project. The goal is set at 25,000 signatures to be sent to the State Board of Regents in support of expanding the curriculum at Tech.

This winter Tech is again having Engineering Days which is an open house on campus. All departments and organizations set up displays, and the public is invited to the campus to get better acquainted with the school and its curriculum. This year our chapter is planning to put up a display depicting our purpose, aims and objectives as a campus organization. This is being done to familiarize more people with our chapter and to help students have a better view of "just what we're up to."

Our chapter does not have a house and we really have no plans for one in the future. We have found that this has its advantages as well as its disadvantages. We are not as closely knit a group as many of the chapters are which do have houses, but we do find that we mix and associate with many non-members more. This, we believe helps us as a group to be a more integral part of the student body.

*—John D. Hartz  
Corresponding Secretary*

## OMEGA

South Dakota School of Mines and Technology, Rapid City

Omega Chapter has always been active on the campus of South Dakota School of Mines and Technology, and this year is no exception. We have brothers who are active in many campus organizations. These organizations are The American Institute of Chemical Engineers, The American Chemical Society, The American Society of Civil Engineers, The American Society of Mechanical Engineers, Eta Kappa Nu, The Institute of Electrical and Electronic Engineers, The "M" Club, Sigma Tau, The Singing Engineers, The Society of American Military Engineers, Scabbard and Blade, and The Engineer Staff. Many of our brothers are also active in student government by being members of the Board of Control, and the Surbeck Center Council.

This year six of our senior Brothers have been elected to Who's Who Among Students.

For Engineers Week this year we will work with the faculty by putting up the posters advertising the week, and sending out speaking teams to the junior high and senior high schools in the local area.

Also this year we have won the scholarship trophy for fraternities again. This makes eleven out of the past twelve semesters that we have won this award.

Besides being active in campus organizations, sponsoring Engineers Week, and stressing scholastic ability, we are very active in varsity and intramural sports. For intramural sports we have three football teams, four basketball teams, and one track team.

—Terrence Katzer  
Corresponding Secretary

## EPSILON BETA

Wayne State University, Detroit

Epsilon Beta's presence within Wayne's College of Engineering is now being made very obvious to engineering students both professionally and socially. Active men a "free coffee" table placed on the first floor of the Engineering Building each morning. The coffee table provides an opportunity to have informal discussions on classes and Theta Tau. We use the table the first month of each school quarter to increase our number of rushees. The chapter house is located, happily, a block away from the student nurse residences of Grace and Harper Hospitals. With the cooperation of the student nurses we have been providing social activities such as mixers and date parties for the College of Engineering. This is one dimension the student engineering societies are lacking. Our first open mixer this quarter included engineering and nursing students, a social sorority and fraternity. "Party goers" numbering close to 200 crowded the three floors of the chapter house.

Professionally, we strive as a body to provide leaders for the engineering organizations such as SAE, ASME, IEEE and AICHE. Providing an editor for the "Wayne Engineer", a student published magazine, has become a tradition for Theta Taus.

—Thomas Field

## IOTA BETA

University of Detroit, Detroit

At the University of Detroit Theta Tau has existed since February 15, 1964. As an infant organization it was dealt a nearly fatal blow when in that year it suffered a very

large graduating class. No one on campus knew what a Theta Tau was. The Sig Eps and the TKEs were the "In" Fraternities on campus, winning all the competitive events the university offered and boasting the largest memberships. But as time went on pledge classes came and went and soon Iota Beta began to grow until it matured to such an extent that it was granted a 60 member limit by the National Executive Council due to the university's Cooperative Engineering Program.

Soon Theta Tau was a power in the Engineering College. Theta Taus were the leaders in other engineering societies such as Pi Tau Sigma, Tau Beta Pi, Chi Epsilon, Eta Kappa Nu, Omega Chi Epsilon, Engineering Student Council, I.E.E.E., S.A.E., A.S.M.E., and A.S.C.E. Eventually Theta Tau's influence was felt in the university's student government when eight Theta Taus were elected to the Student Senate and one to the heights of student government as president.

Homecoming 1968 found Theta Tau approaching the Number 1 position among fraternities when it was awarded the trophy for best overall float. This position was strengthened when Homecoming 1969 turned out to be a repeat performance.

Probably the most significant achievement that Iota Beta can boast is that we brought about a reevaluation of the university's regulation forbidding fraternity housing. This is significant because we are the first fraternity to obtain a fraternity house at a Catholic University. Also two of our brothers are helping the university administration in writing the university's policy on fraternity housing patterned after our bylaws and operating regulations.

As is apparent, in a short five years Iota Beta has emerged as the "NOW" fraternity on the campus of the University of Detroit with the rest of the members of the Interfraternity Council patterning their housing hopes on the reality of the work of the brothers of Iota Beta Chapter of Theta Tau.

—Ronald C. Capossela

## KAPPA BETA

Mississippi State University, Starkville

The most significant thing about Theta Tau as it effects the Mississippi State University campus is its participation in Engineers Week. The chapter goes all out and provides most of the manpower in making Engineers Week successful. Through the continued endeavors of the chapter, Engineers Week has become more successful each year. Last year to promote Engineers Week, each member of the chapter was asked to either send a letter or ask personally as many students as possible to come to Engineers Week. Arrangements were made also for the students to stay in one of the dormitories for the weekend for about \$3.00. Also, members of the chapter went to various high schools to encourage students to attend Engineers Week. The end result was the most successful Engineers Week on the Mississippi State University campus. A matter of great importance in the coordination of Engineers Week last year was that over half of the officers in the School of Engineering are Theta Taus and the case is the same this year.

The chapter co-sponsors with Tau Beta Pi a free computer tutoring session through the year. Dr. Frank Engels, chapter advisor, gave a brief talk about professionalism and how to study at the first of these sessions.

Also, the chapter has been at work formulating a film presentation of the School of Engineering to take to high



schools. As soon as possible, the chapter will make efforts to present this program to as many high schools as possible in order to attract students to the Mississippi State University School of Engineering.

A member of our chapter started the first student engineering magazine, "The Mississippi State Engineer", on our campus last year. Although off to a slow start, the ball is really rolling now and it looks like the "Engineer" is here to stay. The magazine required a great deal of work and much is provided by members of Kappa Beta. However, all efforts are being made to interest other engineering students and to get their support. This matter has met with great success and more and more engineering students are becoming involved with the magazine.

The current news in Kappa Beta is that for the first time, a float was entered in the homecoming parade. The theme was "Rule The Generals" with a bulldog sticking a slide rule through a general.

—Jerry Banks  
Corresponding Secretary

## LAMBDA BETA

Tennessee Technological University, Cookeville

Lambda Beta Chapter is proud of its close, working relationship with the College of Engineering and the University as a whole. Each year our chapter sponsors an exciting evening at "Casino Night," a Las Vegas in miniature complete with game tables and chorus girls. Again this year the ladies of Zeta Tau Alpha Sorority will serve as our change girls, dealers, and "bar" maids. Upon entering the "Casino Party" each student pays a fee of \$1. In exchange for his dollar, he receives \$1,500 in casino currency. Each is entitled to play poker, black jack, or any of the other games as long as his money lasts. When a person loses his stake, he is able to purchase an additional \$1,500 in casino money for each \$1 paid. Both individual and organizational trophies are awarded at the conclusion of the evening's event. The proceeds from "Casino Night" go to charity and to engineering scholarships.

Lambda Beta also goes all out to participate in Engineers Day here at Tennessee Tech. In addition to presenting their own projects, the brothers also serve as their guides.

We at Lambda Beta still feel that one of our primary purposes is to give our time and energy to help solve campus problems. We feel that Tennessee Tech has much to offer prospective engineering students. Therefore, several of our members take a slide show (prepared by the Tennessee Tech Engineering Joint Council) to many high schools within a 90 mile radius of Tech. Each year when the Engineers Ball is presented, Theta Taus are always willing to work and do all they can to make the Ball a success. Last spring Lambda Beta's "Dirty Dozen" won the fraternity Tug-O-War contest sponsored by Delta Tau Delta Fraternity.

Our house is no longer 531 N. Dixie. We have moved to 514 N. Walnut, a two-story brick house with a full basement. New carpets, drapes, couch, chandeliers and lamps have been purchased. The chapter room and living room have had a new coat of paint. In addition, a partition was removed in the basement, providing room for a lounge and game room. Ten members are living in the house.

The first night of rush, we had a film from NASA in Huntsville on Apollo 11. The film includes many beautiful color shots from the moon. Also included in the film is the descent and blast off from the moon as filmed by the color

camera aboard "Eagle." Eight men have been accepted into our fall pledge class.

Founders Day was observed with a party to which our pledges were invited. We extend sincere invitation to the brotherhood to visit with us at Lambda Beta.

—Wm. Michael Hairston  
Corresponding Secretary



Lambda Beta's New House



Lambda Beta Living Room



LAMBDA BETA'S "DIRTY DOZEN"

Front row: Doyle Parsons, Richard Frounleker, Thom Chaffin, Gary Sullivan, Joe Hammonds, Robert Radley. 2nd row: Kellon Owen, Will Smith, Steve Goldenberg, Charles Queen, Larrk Kirk, Don Warden.



# Bill Franklin

Since 1961 Bill Franklin has edited *The GEAR*, a period of significant development of this publication and of Theta Tau. He has made effective the concept that *The GEAR* should communicate the relevant matters of the Fraternity. Another particular achievement has been the very extensive increase in distribution of *The GEAR* to the alumni which has been developed in cooperation with the Central Office.

Bill has been active with his chapter, Zeta, at the University of Kansas, particularly as a member of the Zeta House Corporation Board in the recent construction of the fine new chapter house. Bill has served for several years as a regional director, having been appointed a regional representative in 1957 when the program was first begun. He is now Chapter Liaison Officer.

A very important part of *The GEAR* editorial activity has been *The GEAR* secretary, Bill's gracious and interested wife, Marge. To both, appreciation for a fine publication.



## Additions to Membership

### Alpha — University of Minnesota

- 820 Michael Arthur Nelson, St. Louis Park, Minn.
- 821 John Henry Erickson, Hibbing, Minn.
- 822 Paul Philip Burrell, Edina, Minn.
- 823 Joseph Kenneth Morgan, Minneapolis, Minn.
- 824 Alan Paul Lonneman, Wilmont, Minn.
- 825 LeRoy Hans Nyhus, Minneapolis, Minn.
- 826 Marcel John Lonneman, Wilmont, Minn.
- 827 Loren David Hill, St. Paul, Minn.
- 828 Jerry Robert Haugen, Coon Rapids, Minn.
- 829 Marcell Edward Hoffman, Sleepy Eye, Minn.
- 830 Gary John Obermiller, St. Cloud, Minn.

### Beta — Michigan Technological University

- 1008 Thomas Lynn Itner, Auburn, Mich.
- 1009 Raymond Joseph Roberts, Mason, Mich.
- 1010 John A. Richards, Minnetonka, Minn.
- 1011 Daniel N. Berlin, Ironwood, Mich.
- 1012 Michael William Malloy, Des Plaines, Ill.
- 1013 Ronald Carl Amadio, Sault Ste. Marie, Ont., Can.
- 1014 Kenneth Frederick Desjardine, Scarborough, Ont., Can.
- 1015 Kenneth Tasker Tucker, Toronto, Ont., Can.
- 1016 Kevin Brian Slattery, Hillman, Mich.
- 1017 Ronald Alan Hughes, Chassell, Mich.
- 1018 Anthony Richard Pawloski, Kalamazoo, Mich.
- 1019 Gerald Donald Calogero, Luna Pier, Mich.
- 1020 Barry Eugene Simescu, Detroit, Mich.
- 1021 Walter Theodore Segsworth, Toronto, Ont., Can.
- 1022 Theodore Allen Finch, Appleton, Wisc.
- 1023 Daniel Christopher Schrauben, Orleans, Mich.
- 1024 James Dwight Compton, Battle Creek, Mich.
- 1025 Michael Edward Sesko, Roseville, Mich.
- 1026 William Armstrong Todd, Jr., Marquette, Mich.
- 1027 John Alec McDonald, Calgary, Alberta, Can.
- 1028 Walter Dale Otto, Saginaw, Mich.
- 1029 Michael Vernon McCombie, Kohler, Wisc.
- 1030 John Phillip Sewell, Jr., Farmington, Mich.
- 1031 Neil Clark Nikade, Grand Rapids, Mich.
- 1032 Jack Kenneth Robison, Whitney Point, N.Y.
- 1033 Vern Ward Ingraham, Greene, N.Y.
- 1034 Kurt David Stoor, Crystal Falls, Mich.
- 1035 Robert John Levesque, Dearborn Heights, Mich.
- 1036 Robert Jay Southgate, Livonia, Mich.
- 1037 Keith Joseph Platte, Grand Rapids, Mich.
- 1038 Frederick Hal Hillard, Jr., Oak Park, Mich.
- 1039 John Richard Meyers, Houghton, Mich.

### Delta — Case Western Reserve University

- 1116 Colin William Brown, East Liverpool, Ohio
- 1117 Leonard Joseph Selack, Cleveland, Ohio
- 1118 Theodore Dunmore Wakefield II, Vermilion, Ohio
- 1119 Walter Buble, Jr., Euclid, Ohio
- 1120 David Alan Fink, Dayton, Ohio
- 1121 Neil Bruce Goldstein, Baltimore, Md.
- 1122 Alan Martin Helmink, Rocky River, Ohio
- 1123 Thomas Leroy Jarvis, Mentor, Ohio
- 1124 Sylvester Yunkap Kwankam, Kumba, Cameroun, W. Africa
- 1125 William George May, Stow, Ohio
- 1126 Ray Ira McFarland, Jr., Bedford, Ohio
- 1127 Thomas Charles Michael O'Neill, Euclid, Ohio
- 1128 Craig Andrew Richmond, Princeton, N. J.
- 1129 John Walfrid Seferian, Ashtabula, Ohio
- 1130 Andrew Richard Somosi, Maple Hts., Ohio
- 1131 Anthony James John Strazisar, Richmond Hts., Ohio
- 1132 Edward Joseph Tatman, Cleveland Hts., Ohio
- 1133 Richard Louis Warren, Brussels, Belgium
- 1134 Thomas Lee Michaels, Canton, Ohio
- 1135 Theodore Dahlman Swanson, Newington, Conn.
- 1136 Bruce Michael Cook, Erie, Pa.
- 1137 Richard Lee Flading, Canton, Ohio
- 1138 William Edward Hamilton, Kirtland, Ohio
- 1139 Neal Tadao Nomiya, Honolulu, Hawaii
- 1140 Dannis Lawrence Pesek, Cleveland, Ohio
- 1141 Peter Nils Skottegard, Plantation, Fla.
- 1142 Eric Robert Snyder, Euclid, Ohio
- 1143 Gary Thomas Steinbach, Massillon, Ohio

### Epsilon — University of California, Berkeley

- 883 Olin Clifton Jones, Concord, Calif.
- 884 Jon Lindsay Nelson, Los Altos, Calif.

### Zeta — University of Kansas

- 722 Robert Clark Davis, El Dorado, Kans.
- 723 Edward Daniel Brady, Lawrence, Kans.
- 724 David Halsey Murdock, Overland Park, Kans.
- 725 Edward William Burnett, St. Paul, Kans.
- 726 James Thomas Richardson, Jr., Kansas City, Kans.
- 727 Samuel George Haldiman, Kansas City, Kans.
- 728 Philip David Humphrey, Lee's Summit, Mo.
- 729 Lee J. Krapp, Easton, Kans.
- 730 Timothy Carle Liebert, Coffeyville, Kans.
- 731 Fredrick Gene Houglund, Lawrence, Kans.
- 732 Robert Eugene Holmes, Lawrence, Kans.

## Theta — Columbia University

- 750 George Giulio Bacolini, Brooklyn, N.Y.  
 751 Lawrence Stephen Brandline, Glendale, N.Y.  
 752 David Tsang Chew, New York, N.Y.  
 753 Peter Michael Cierk, Springfield, Mass.  
 754 Arthur Michael Greenhaus, Floral Park, N.Y.  
 755 Irving Jerome Kuznetsov, Brooklyn, N.Y.  
 756 Roger David Liwer, Holliswood, N.Y.  
 757 Abram Zwany, Woodside, N.Y.

## Iota — University of Missouri at Rolla

- 1107 Barry Jay Brandt, St. Louis, Mo.  
 1108 Russell Dun Byars, Kansas City, Mo.  
 1109 Robert Murry Cramer, Ellsville, Mo.  
 1110 Ronald Frederick Crawford, Prospect Heights, Ill.  
 1111 Eric Dale Dunning, Manchester, Mo.  
 1112 Robert Fredrick Hoel, Jr., St. Louis, Mo.  
 1113 James Allen Janssen, Nokomis, Ill.  
 1114 Jon Bradley Kasten, Cape Girardeau, Mo.  
 1115 Kent Michael Kopf, Belleville, Ill.  
 1116 George Allen Michie, Caruthersville, Mo.  
 1117 James Edward Montgomery, Jackson, Mo.  
 1118 John Bennett Riley, Liberty, Mo.  
 1119 Thomas Alfred Selders, Groves Pointe Woods, Mich.  
 1120 Richard Paul Tucklen, Fenton, Mo.  
 1121 William Keith Wedge, Affton, Mo.  
 1122 John Michael Woodlock, Affton, Mo.  
 1123 Steven Alan Biederman, St. Louis, Mo.  
 1124 John Edward Branham, Neosho, Mo.  
 1125 Charles Alan Breedlove, Rogersville, Mo.  
 1126 John Gordon Gayer, Ash Grove, Mo.  
 1127 Joseph Michael Ingram, St. Louis, Mo.  
 1128 Gregory Stephen Kotys, Monessen, Pa.  
 1129 Jon August Kremer, Ballwin, Mo.  
 1130 David Lee Krueger, St. Louis, Mo.  
 1131 Gregg Herbert Melzer, Sappington, Mo.  
 1132 Gregory Edward Praznik, Summit, Mo.  
 1133 John Robert Stucker, Bartlett, Ill.  
 1134 Stephen Wayne Wiechens, St. Charles, Mo.  
 1135 Robert Joseph Doyle, St. Louis, Mo.  
 1136 Steven Michael Eatherton, St. Louis, Mo.  
 1137 John Paul Haley, St. Louis, Mo.  
 1138 Dennis Gene Heisler, Carbondale, Ill.  
 1139 Choyes Kenny Hiltbrand, Sikeston, Mo.  
 1140 David Alan Holdener, St. Louis, Mo.  
 1141 Stephen Paul Kutska, Chicago, Ill.  
 1142 Dennis Edmund Miera, Walnut Creek, Calif.  
 1143 Russell John Pepper III, Collinsville, Ill.  
 1144 Larry James Schall, Kansas City, Mo.  
 1145 Kenneth Raymond Schweigert, Ste. Genevieve, Mo.  
 1146 Robert Dennis Somerville, Polas Hts., Ill.  
 1147 Randall William Starkey, Kirkwood, Mo.  
 1148 Stephen Mark Thies, St. Louis, Mo.  
 1149 John Ray Winkelmann, St. Louis, Mo.

## Lambda — University of Utah

- 909 Jeffrey William Hawkins, Salt Lake City, Utah  
 910 Joseph Donald Terry, Jr., Salt Lake City, Utah  
 911 Michael Scott Barnes, Kearns, Utah  
 912 Bruce P. Dalley, Salt Lake City, Utah  
 913 Larry Richard Gilson, Salt Lake City, Utah  
 914 David Neal Lewis, Salt Lake City, Utah  
 915 Ray Gary Phibbs, Salt Lake City, Utah

## Mu — University of Alabama

- 937 Eric Maxwell Tomlin, Ashland, Ala.  
 938 Lawrence Yelverton Byrd, Birmingham, Ala.  
 939 William Thomas Champd, Alton, Ala.  
 940 William Henry Cleino, Tuscaloosa, Ala.  
 941 Charles Wilson DuPre, Jr., Efrogmore, La.  
 942 Dennis Collins Foster, New Orleans, La.  
 943 Ernest Gregory O'Neal, Parkdale, Ark.  
 944 Timothy Tyrone Plunkett, Wylam, Ala.  
 945 Johnny Tucker Smalley, Birmingham, Ala.  
 946 John Howell Edward Stevens, Huntsville, Ala.  
 947 Moreno Jones White, Jr., Evergreen, Ala.  
 948 Phillip Glenn Reeves, Tuscaloosa, Ala.  
 949 Ronald Ray Campbell, Blountsville, Ala.  
 950 William Bryant Frye, Birmingham, Ala.  
 951 Thomas Roy Harrell, Quinton, Ala.

- 952 Frederick Joseph Harsany, Birmingham, Ala.  
 953 Jimmy Randall Jackson, Montgomery, Ala.  
 954 David Alan Richardson, Huntsville, Ala.  
 955 William David Sudduth, Tuscaloosa, Ala.  
 956 William Joseph Williams, Huntsville, Ala.  
 957 William Braton Boykin, Talladega, Ala.  
 958 Willie Randall Cheatwood, Oxford, Ala.  
 959 Robert Garland Dodd, Birmingham, Ala.  
 960 Ban Jay George, Adger, Ala.  
 961 Charles Nolan Gilbert, Quinton, Ala.  
 962 John Hugh Matthews, Jr., Tuscaloosa, Ala.  
 963 Eugene Neal Pollan, Dothan, Ala.  
 964 Edward Fennell Tatum, Tuscaloosa, Ala.  
 965 Jerry Michael Trimm, Elrod, Ala.  
 966 Eugene Carlton Williams, Montgomery, Ala.  
 967 William McKinley Wright, Adger, Ala.

## Xi — University of Wisconsin

- 337 James Norman Meidl, Oshkosh, Wis.  
 338 Paul James Mollinger, Milwaukee, Wis.  
 339 Wesley John Panzer, Madison, Wis.  
 340 Larry Allen Schultz, Cecil, Wis.  
 341 Richard Allen Wollner, Fond Du Lac, Wis.  
 342 Craig Alan Franz, Wauwatosa, Wis.  
 343 Lee Jordan Heffernon, Oshkosh, Wis.  
 344 Eugene Kenneth Severson, Madison, Wis.  
 345 John Thomas Bailey, Marquette, Wis.  
 346 Peter Lawrence Christensen, Oshkosh, Wis.  
 347 Eugene Glen McNurlen, Baraboo, Wis.  
 348 Alan Craig Musser, Waukesha, Wis.

## Omicron — University of Iowa

- 774 Gaylen Howard Enochson, Marengo, Iowa  
 775 Dane Alan Hansen, Davenport, Iowa  
 776 Wesley James Hunstad, Davenport, Iowa  
 777 Roger Marshall Moore, Centerville, Iowa  
 778 Rodger Lloyd Moring, Iowa City, Iowa  
 779 Max Allen Robertson, Davenport, Iowa  
 780 John Steven Newmeister, Cedar Rapids, Iowa  
 781 Dale Victor Schaul, Manchester, Iowa  
 782 Dean Richard Barber, DeWitt, Iowa  
 783 Jon Gregory Danskin, Marengo, Iowa  
 784 Jon Louis Fisher, Aplington, Iowa  
 785 Gary Ray Harvey, Davenport, Iowa  
 786 Richard Herbert Heller, Lincolnwood, Ill.  
 787 David Edward Meer, Iowa City, Iowa  
 788 Steven Mark Porter, Marshalltown, Iowa  
 789 Thomas Arthur Selders, Addison, Ill.  
 790 Delano Robert Berg, Sabula, Iowa  
 791 Theodore Richard Hradek, Oxford, Iowa  
 792 John Connor Nash, Cedar Rapids, Iowa

## Pi — University of Virginia

- 781 Harry Eugene Lockhart, Louisville, Ky.  
 782 Christopher Lyons Ellis, Prospectville, Pa.  
 783 Robert Adrian Williamson, Jr., Saddle River, N.J.  
 784 Howard Berryman Edwards, Jr., Hampton, Va.  
 785 David Morris Mitchell, Arlington, Va.  
 786 Clyde Delmar Kestner, Orange, Va.  
 787 Thomas Dalton Whelan, Rockville, Md.  
 788 Terrence William Coll, Doylestown, Pa.  
 790 David Bruce Smith, Atlanta, Ga.  
 791 Dana Alan Walker, Charlottesville, Va.  
 792 Michael Dean Walker, Charlottesville, Va.  
 796 Jeffrey Alan Andrews, Alexandria, Va.  
 797 James Wesley Caldwell, Alexandria, Va.  
 798 John Albert Heisler, Jr., Richmond, Va.  
 799 William Merrick Huvert, Alexandria, Va.  
 800 John Howard King, Houston, Texas  
 801 Regan Edward Voit, Houston, Texas

## Rho — North Carolina State University

- 735 Thomas Floyd Brady, Greensboro, N.C.  
 736 Michael Allen Colombo, Rocky Mount, N.C.  
 737 Larry Douglas Disher, Winston-Salem, N.C.  
 738 Charles Wellington Foster, Newton, N.C.  
 739 Charles Michael Fulenwider, Morganton, N.C.  
 760 Laddie Brown Griffin, Sanford, N.C.  
 761 Joseph Henry Letterman, W. Asheville, N.C.

762 Robert Martin Price, Taylorsville, N.C.  
 763 John Richard Skerrett, Cedar Mountain, N.C.  
 764 Robert Gregory Snipes, Florence, S.C.  
 765 John Braxwell Smith, Jr., Deep Run, N.C.  
 766 Wilson Earl Smith, Durham, N.C.  
 767 George Hugh Stilwell, Concord, N.C.  
 768 William Henry Stokes, Charlotte, N.C.  
 769 Robert Matthews Tayloe, Ahoskie, N.C.  
 770 William Cain Brantley, Jr., Winston-Salem, N.C.  
 771 David William Griffith, Kernersville, N.C.  
 772 Kenneth Lawrence Horton, Candler, N.C.  
 773 Reggie Tim Probst, Granite Falls, N.C.  
 774 Charles Geoffrey Rice, Candler, N.C.  
 775 Ray Vernon Scott, Jr., Winchester, Ky.  
 776 Kenneth Allison Stevens, Durham, N.C.  
 777 Mark Allen Thompson, Bailey, N.C.  
 778 Thomas Lane Atkinson, High Point, N.C.  
 779 Clarence William Barringer, Richfield, N.C.  
 780 Glenn Alan Davis, Castle Hayne, N.C.  
 781 Ronald Binom Raley, Pine Bluff, Ark.  
 782 Loy Gerald Robinson, Lincoln, N.C.  
 783 Robert Bruce Royal, Jr., Greensboro, N.C.  
 784 William Lee Sigmom, Jr., Sherrills Ford, N.C.  
 785 Luther Vaughn Wagoner, Elon College, N.C.  
 786 Dean Boner Williams, Winston-Salem, N.C.  
 787 Harry Sydney Willis, Jr., Burlington, N.C.

## Sigma — Ohio State University

633 James Lowell Blackstone, New Concord, Ohio  
 634 David Harrison Hoffmeister, North Olmsted, Ohio  
 635 Thomas August Miller, Castalia, Ohio  
 636 Keith Wessel Statler, Chagrin Falls, Ohio  
 637 Kenneth Edward Waller, Guyahoga Falls, Ohio  
 638 Michael William Konderson, Parma, Ohio  
 639 Gerald Masaji Takasaki, Hakalau, Hawaii  
 640 Richard Russell Daniel, Bradford, Ohio  
 641 Gary Lee Gray, Sardinia, Ohio  
 642 John Daniel Chmielewski, Toledo, Ohio  
 643 Karl Raymond Inman, Columbus, Ohio  
 644 Donald Grant Lorentz, Woodbury, N.J.  
 645 James Michael Mardis, Vandalia, Ohio  
 646 Larry Don Prince, Lorain, Ohio  
 647 Julius Fleischmann Sanks, Cincinnati, Ohio

## Tau — Syracuse University

705 Syed Shaghl Husain, Lahore, W. Pakistan  
 706 Thomas Charles Kazanjian, Bogota, N.J.  
 707 Edward Jay Gerber, Rockville Centre, N.Y.  
 708 Stefan Baker Herbst, Bradfordwoods, Pa.  
 709 John Paul Heslop, Newfield, N.Y.  
 710 Ian Charles Inglis, Dedham, Mass.  
 711 Kevin Lee Roberts, Bliss, N.Y.  
 712 Philip Carl Terry, Alexandria, Va.  
 713 Jay Robert Adsit, Baldwinsville, N.Y.  
 714 Peter Michael Vincent Petrone, Syracuse, N.Y.

## Upsilon — University of Arkansas

726 Glen Lanny McKuin, Morrilton, Ark.  
 727 Gary Fletcher Watson, Russellville, Ark.  
 728 Vernon Duanne Rowe, McGeece, Ark.  
 729 Ronald Eugene Rhodes, Cherry Valley, Ark.  
 730 John Ray Stokes, Batesville, Ark.  
 731 James Milton Stokes, Batesville, Ark.  
 732 Charles Leland Marlin, Jr., Berryville, Ark.  
 733 James Loyd Gattis, II, Little Rock, Ark.  
 734 David Charles Alexander, Springdale, Ark.  
 735 Gary Lynn Gibson, Fort Smith, Ark.  
 736 Marc George Paulson, Council Bluffs, Iowa  
 737 David Leigh Ballenger, Fayetteville, Ark.  
 738 James Bruce Hazlewood, Hot Springs, Ark.  
 739 Larry Kea Waits, Magnolia, Ark.  
 740 Lynn Ferguson Oates, Little Rock, Ark.

## Phi — Purdue University

441 David Edward Beeson, Anderson, Ind.  
 442 John Michael Branner, South Charleston, W. Va.  
 443 Stephen Ward Burkhammer, Zionsville, Ind.  
 444 Rowland VanDyke Firth, III, Mt. Prospect, Ill.  
 445 Paul Stuart Frederick, Chagrin Falls, Ohio

446 Jay Harold Grossman, Andrews, Ind.  
 447 Raymond Lawrence Ienhour, Lexington, Ky.  
 448 Ralph Joseph Kramer, III, Delaware, Ohio  
 449 Michael Ray Lefler, Gomersville, Ind.  
 450 Raymond Thomas Richter, Cleveland, Ohio  
 451 Hector Julian Rosquete, Bremen, Ind.  
 452 Michael Eugene Short, Dayton, Ind.  
 453 Donald Beary Stroud, Jr., Indianapolis, Ind.  
 454 William Louis Virostko, Rockville, Ind.  
 455 Edward Lebretha Davis, Opaloka, Fla.  
 456 Victor Mszar, East Chicago, Ind.

## Chi — University of Arizona

755 Gary Murchison Cook, Tucson, Ariz.  
 756 John William Klein, Jr., Williamsburg, N.Y.  
 757 William Reid Lucas, Tucson, Ariz.  
 758 Bruce Montgomery Boyum, Tucson, Ariz.  
 759 William Thomas Fredenburg, Tucson, Ariz.  
 760 Christopher John Randall, Feeding Hills, Mass.  
 761 James Garrett Van Vliet, Redlands, Calif.  
 762 Thomas Carl Wozniak, Grand Rapids, Mich.  
 763 Donald Robert Boyd, Hayden, Ariz.  
 764 Richard Eugene Hagerman, Penn Yan, N.Y.  
 765 Bruce William Lanti, Glendale, Ariz.  
 766 Albert Irving Ness, Tucson, Ariz.  
 767 Joseph Morten Weiss, Phoenix, Ariz.

## Psi — Montana College of Mineral Sciences and Technology

521 Melvin Glenn Brekhus, Big Fork, Mont.  
 522 Richard Theodore Dale, Twin Bridges, Mont.  
 523 Darrell Carmel Himmensee, Columbia Falls, Mont.  
 524 Fredrick James Hoffman, Whitehall, Mont.  
 525 Donald Duncan MacIntyre, Butte, Mont.  
 526 George Bruce Williams, Jr., Butte, Mont.  
 527 Richard Arthur Schmidt, Anaconda, Mont.  
 528 James Michael Warner, Laurel, Mont.  
 529 Jeffrey Douglas Russell, Flin Flon, Manitoba, Can.  
 530 Robert Victor Westermarck, Butte, Mont.  
 531 Richard Wayne Clark, Anaconda, Mont.  
 532 Robert Hunt Lambeth, Polson, Mont.  
 533 Curtis Christ Dahlgren, Westly, Mont.  
 534 Jeremiah Ryan Trythall, Butte, Mont.  
 535 Gary George Nyquist, Butte, Mont.  
 536 David Arthur Johnson, Butte, Mont.

## Omega — South Dakota School of Mines and Technology

694 Robert Thomas Nelson, Sioux Falls, S.D.  
 695 Donald Oscar Asheim, Lead, S.D.  
 696 David Lynn Berg, Baltic, S.D.  
 697 Michael Robert Bray, Sioux Falls, S.D.  
 698 Gregory Lee Cameron, Gettysburg, S.D.  
 699 Steven Ray DeKramer, Huron, S.D.  
 700 David Glenn Erickson, Sioux Falls, S.D.  
 701 Clyde Ernest Erickson, Salem, S.D.  
 702 Thomas Glenn Heck, Sioux Falls, S.D.  
 703 Douglas George Lagg, Central City, S.D.  
 704 Terrance Louis Lewton, Bison, S.D.  
 705 Ward Alan Opitz, Watertown, S.D.  
 706 Larry Vaughn Pearson, Wausa, Neb.  
 707 Gary Michael Prill, Madison, S.D.  
 708 Joseph Lawrence Ratigan, Newcastle, Wyo.  
 709 Wesley John Starckenburg, Corsica, S.D.  
 710 Lee Lambert Lawrence Van Sambeek, Corona, S.D.  
 711 Gary Ray Veurink, Harrison, S.D.  
 712 Thomas Joseph Zeller, Miller, S.D.  
 713 Clyde Marvin Bartel, Emery, S.D.  
 714 Lars Ditley, Sioux Falls, S.D.  
 715 Larry Donovan Dresch, Clark, S.D.  
 716 Kurt Thomas Frost, Hoven, S.D.  
 717 Robert Erle Grant, Winner, S.D.  
 718 William Allen Jones, Lennox, S.D.  
 719 Verne Coonrod King, Miller, S.D.  
 720 Craig Kenneth Knock, Bancroft, S.D.  
 721 David Ray Lolley, Mission, S.D.  
 722 Kerry Dean Oberle, Sioux Falls, S.D.  
 723 Charles Michael Schultz, Madison, S.D.  
 724 Eldon Duane Strid, Hettinger, N.D.

## Gamma Beta — The George Washington University

- 502 Jacob Marshall Azrael, Baltimore, Md.
- 503 David Raphael Forsyth, Brooklyn, N.Y.
- 504 John Gordon Grier, Jr., McLean, Va.
- 505 James Thomas Iovino, Brooklyn, N.Y.
- 506 Robert Allen Longson, Walbridge, N.J.
- 507 Steven Thomas Monni, Baltimore, Md.
- 508 Michael Lee Rothchild, Cresskill, N.J.
- 509 Donald Edward Waltrich, Madison, N.C.
- 510 Hugh Harvard Faust, Temple Hills, Md.
- 511 Howard Michael Kellman, Flushing, N.Y.
- 512 Mark Harold Litchfield, Dracut, Mass.
- 513 Jerrold Leonard Bonn, Arlington, Va.
- 514 Russell Robert Chesley, Woodbridge, Va.
- 515 Alfred Samuel DeLuca, Jr., Wilmington, Del.
- 516 Sidney Johnson Harmon, II, McLean, Va.
- 517 Albert K. Lee, Washington, D.C.
- 518 Arthur Edward Mitchell, Pittsburg, Pa.
- 519 Richard Allen Noble, Churchville, Md.
- 520 Leonard Benjamin Sirota, West Newton, Mass.
- 521 Andrew Robert Williams, Oxon Hill, Md.
- 522 Frank Fisher Atwood, Salt Lake City, Utah
- 523 Daniel Lee Holtsclaw, Tipton, Ind.
- 524 David Richard Sobel, Malverne, N.Y.
- 525 William Michael Zeman, College Point, N.Y.
- 526 Raymond Samuel Grant, Jr., Lanham, Md.
- 527 Paul Thaler Blue, Washington, D.C.
- 528 Robert William Lucas, Washington, D.C.
- 529 Jay Wolfe Rubin, Stroudsburg, Pa.
- 531 Gregory Dale Smith, Bethesda, Md.
- 533 Richard Tabor, Bethesda, Md.

## Delta Beta — University of Louisville

- 437 Robert Michael Burke, II, Louisville, Ky.
- 438 William Robert Gray, III, Louisville, Ky.
- 439 Richard Allen Hanks, Danville, Ky.
- 440 Thomas Reid Herman, Louisville, Ky.
- 441 William Thomas Hurley, Louisville, Ky.
- 442 Donald Edward Ising, Louisville, Ky.
- 443 Richard Jesse James, Louisville, Ky.
- 444 John Stephen Karpinski, Glen Cove, N.Y.
- 445 Stephen William Keiler, Louisville, Ky.
- 446 Michael Louis Lesshaft, Louisville, Ky.
- 447 David Bruce Mitchell, Louisville, Ky.
- 448 Andrew Francis Polahar, Somerville, N.J.
- 449 William Henry Spinks, Jr., Louisville, Ky.
- 450 Stanley Nauman Wagar, Stone Ridge, N.Y.
- 451 Richard Joseph Burns, Jr., Louisville, Ky.
- 452 Alvin Michael Derr, Louisville, Ky.
- 453 Joseph Arthur DeZarn, Louisville, Ky.
- 454 Charles Anthony Heinrichs, Southgate, Ky.
- 455 Robert Landon Luttrell, Jr., Louisville, Ky.
- 456 Ernest Harley Mayberry, Louisville, Ky.
- 457 Patrick Michael McGuire, Boston, Ky.
- 458 Nathan M. Morgenstern, Louisville, Ky.
- 459 Francis Joseph Schork, Louisville, Ky.
- 460 Stephen Eugene Thompson, Louisville, Ky.
- 461 Larry James Yount, Louisville, Ky.
- 462 Joseph Dara Amlung, Jr., Louisville, Ky.
- 463 John Michael Ashley, Louisville, Ky.
- 464 William Chester Hulett, Jr., Carrollton, Ky.
- 465 Edward Glendale Myatt, Jr., Lexington, Ind.
- 466 James Patrick Rottman, Louisville, Ky.

## Epsilon Beta — Wayne State University

- 233 Wallace Buczynski, Detroit, Mich.
- 234 Richard Joseph Ferranti, Warren, Mich.
- 235 Vincent Philip Sammut, Dearborn, Mich.
- 236 Gilbert Charles Van Poperin, Royal Oak, Mich.
- 237 Bruce William Johnson, Warren, Mich.
- 238 Victor John Bolsterstein, Detroit, Mich.
- 239 Ramsey Makled, Dearborn, Mich.
- 240 Christopher James Mikolajczak, Detroit, Mich.
- 241 Larry Vincent Palizai, Allen Park, Mich.
- 242 Siegfried Douglas Staszak, Detroit, Mich.
- 243 Louis Reda Younan, St. Clair Shores, Mich.
- 244 Daniel Paul Cherewick, Detroit, Mich.
- 245 Edward James Booth, Detroit, Mich.
- 246 Paul Michael Dismache, Livonia, Mich.

- 247 Samuel David Hires, Warren, Mich.
- 248 James William Kosakowski, Detroit, Mich.
- 249 Bill Evans Stimpson, Detroit, Mich.

## Eta Beta — University of Houston

- 156 Michael Joseph Bartniski, Houston, Tex.
- 157 Philip Andrew Bird, Alvin, Tex.
- 158 Philip Wayne Green, Harlingen, Tex.
- 159 Alton Howard McCollum, Jr., Houston, Tex.
- 160 James David Sikes, Houston, Tex.
- 161 Earl Francis Tilton, III, Houston, Tex.
- 162 Fredrick William Billington, Newgulf, Tex.
- 163 Marc Kenneth Heidemann, Houston, Tex.
- 164 Eugene Earl Klodinski, Houston, Tex.
- 165 John Paul Lube, Houston, Tex.
- 166 Benjamin Paul Trombatore, Houston, Tex.
- 167 Clifton Lamar Hale, Jr., Houston, Tex.
- 168 Olle Lawrence Lorehn, Jr., Houston, Tex.
- 169 Michael Paul Schaefer, Vanderbilt, Tex.
- 170 Clayton Donald Terry, Houston, Tex.

## Theta Beta — University of Washington

- 59 Terrance Leon Cheatham, Seattle, Wash.
- 60 Philip Joseph Kreick, Vancouver, Wash.
- 61 John Scott Lincoln, Seattle, Wash.
- 62 John William Booth, Seattle, Wash.

## Iota Beta — University of Detroit

- 127 Keith William Bauer, Monroe, Mich.
- 128 Mark Thomas Devore, Canton, Ohio
- 129 David John Johnston, Dearborn, Mich.
- 130 Bradford Thomas Light, Saginaw, Mich.
- 131 Joseph Micheal Wozniak, Martin's Ferry, Ohio
- 132 Joe Stephen Hitt (Honorary), Detroit, Mich.
- 133 David Charles Detzel, Erie, Pa.
- 134 Thomas Gaunter, Parma, Ohio
- 135 Gregory Andrew Humenik, Parma, Ohio
- 136 Anthony Frank Kozlowski, Jr., Milwaukee, Wis.
- 137 Gerald Raymond Lane, E., Detroit, Mich.
- 138 Casimir Claude Marzke, Toledo, Ohio
- 139 James Florian Quinn, Depew, N.Y.
- 140 David Stanley Banish, Lincoln Park, Mich.
- 141 Mitchell Thomas Bonich, Lincoln Park, Mich.
- 142 James Gregory King, Allen Park, Mich.
- 143 Craig A. Patterson, Naperville, Ill.
- 144 Arthur John Wilson, Jr., Chicago, Ill.
- 145 Darnell Bacon, Detroit, Mich.
- 146 Michael David Burt, Monroe, Mich.
- 147 George Robert Gerdeman, Delphos, Ohio
- 148 Theodore Paul Kill, Delphos, Ohio
- 149 Douglas John Sordyl, Southgate, Mich.
- 150 Gerard Edward Szczepaniak, Bloomfield Hills, Mich.
- 151 Ronald Walter Waskiewicz, Erie, Pa.

## Kappa Beta — Mississippi State University

- 113 Junius Davis Allen, Jackson, Miss.
- 114 Diego Patricio Armijos H., Quito, Ecuador, S.A.
- 115 Gordon Sandlin Buck, Jr., Biloxi, Miss.
- 116 Gene Hong Chin, Jonestown, Miss.
- 117 Dorsey Edward Higdon, Jr., Columbus, Miss.
- 118 William Charles Johnston, Jackson, Miss.
- 119 James Allen Keith, Laurel, Miss.
- 120 Mack Steele Mutchler, Jackson, Miss.
- 121 Horace Joseph Nicaise, III, Pass Christian, Miss.
- 122 John Gordon Sigman, Jr., Holly Springs, Miss.
- 123 Mark Wilbert Schowalter, Hattiesburg, Miss.
- 124 David Lane Tyler, State College, Miss.
- 125 Charles Leland Tyrone, Prentiss, Miss.
- 126 Sidney Everett West, Batesville, Miss.
- 127 Theodore Temple Wall, Jr., Meridian, Miss.
- 128 Thomas Andrew Baldin, Batesville, Miss.
- 129 Robert Dale Bryant, Pinola, Miss.
- 130 William Franklin Chandler, Jr., Canton, Miss.
- 131 Claude Marion Connell, Natchez, Miss.
- 132 Paul Joseph DeNicola, Gulfport, Miss.
- 133 Julian Mathew Dicks, Jackson, Miss.
- 134 James Fredrick George, Meridian, Miss.
- 135 John Tate Grafton, III, Laurel, Miss.
- 136 Chester Allen Harris, Crystal Springs, Miss.
- 137 Kaleel Rahaim, Laurel, Miss.
- 138 John Willbur Rigby, Vicksburg, Miss.



- 139 Kenneth Anthony Williams, Biloxi, Miss.
- 140 William John Lee (Honorary), State College, Miss.
- 141 Ernest Louis Buttross, Jr., Canton, Miss.
- 142 Johnny Wayne Chenault, Meridian, Miss.
- 143 Wesley Sylvester Chiniche, Biloxi, Miss.
- 144 Joe Andrew Ewing, Vaughan, Miss.
- 145 James Thomas Henry, Vicksburg, Miss.
- 146 Jimmy Joe Moon, Boyle, Miss.
- 147 Stanley George Nalley, Biloxi, Miss.
- 148 Roger Charles Olye, Danville, Va.
- 149 Robert Harold Seyfarth, Natchez, Miss.
- 150 William Alfred Shepherd, Jr., Gulfport, Miss.
- 151 Richard John Vertz, Wailaia, Hawaii
- 152 William David Webb, Laurel, Miss.
- 153 Lamar Payne Woodley, Jr., Gulfport, Miss.

## Lamba Beta — Tennessee Technological University

- 59 Roger Dale Bullion, Obion, Tenn.
- 60 Sam Douglas Greenwood, Cookeville, Tenn.
- 61 Joseph Wayne Kamarad, Lawrenceburg, Tenn.
- 62 Thomas Leslie Lovitt, Milan, Ohio
- 63 Frank Turner Thomak, Jr., Tiptonville, Tenn.
- 64 Ronald Terry Ooten, Oakdale, Tenn.
- 65 John Lawrence Palmer, Union City, Tenn.
- 66 Carl Walker Sandlin, Union City, Tenn.
- 67 Charles Alan Weldon, Union City, Tenn.
- 68 William David McLennan (Honorary), Cookeville, Tenn.
- 69 Stephen Leon Escue, White House, Tenn.
- 70 Wendell Christopher King, Fairview, Tenn.
- 71 Gary Maurice Weatherford, Columbia, Tenn.
- 72 Philip Alan Caplenor, Riddleton, Tenn.
- 73 Pravinchandra Raojibhai Patel, Padgol, India
- 74 Vincent Scott Gallbraith, Cookeville, Tenn.
- 75 Tommy Glenn Freeman, Union City, Tenn.
- 76 Jack Williams Gill, Monterey, Tenn.
- 77 John Anthony Lamb, Jr., Oak Ridge, Tenn.
- 78 Stephen Guy Rochelle, Mobile, Ala.
- 79 Jimmy Lee Watson, Pioneer, Tenn.
- 80 Terry Lee Weatherford, Dickson, Tenn.
- 81 Steve Allen Williams, Union City, Tenn.

## Mu Beta — General Motors Institute

- 1 John Thomas Murray (charter), Royal Oak, Mich.
- 2 John Paul Bas (charter), Sterling Hgts., Mich.
- 4 Robert James Heyman (charter), Royal Oak, Mich.
- 5 Richard Steven Hill (charter), Vandalia, Ohio
- 6 Gary James Rutledge (charter), Southfield, Mich.
- 8 Frank Charles Sonye, Jr., Lorain, Ohio
- 9 Dean Ward Bell (charter), Royal Oak, Mich.
- 10 Thomas Clinton Downs (charter), Dayton, Ohio
- 11 William Anthony Fleury (charter), Fraser, Mich.
- 12 Charles Kenneth Poindester, Jr. (charter), Westmont, Ill.
- 13 Dean Harold Woodard (charter), Syracuse, N.Y.
- 15 Terry Lee Marquis (charter), Lakewood, Ohio
- 16 Thomas Andrew Rudzinski (charter), Cleveland, Ohio
- 17 Otto Walter Pfah, Jr. (charter), Fulton, N.Y.
- 19 Edward Lee Pauly (charter), Sterling Hts., Mich.
- 20 Dennis Lee Cannady (charter), Kansas City, Mo.
- 21 John Stephen Halajko (charter), Linden, N.J.
- 21 Michael Alan Avey, Orion, Ill.
- 22 Lawrence Robert Bellmore, Davison, Mich.
- 23 Dennis Rodney Bergeron, Flint, Mich.
- 24 Dean Russell Bloom, West Middlesex, Pa.
- 25 Terrance Luther Brooker, Flint, Mich.
- 26 Robert Charles Courneya, Gladwin, Mich.
- 27 David Ross Dillingham, Jr., Wayne, Mich.
- 28 Michael Joseph Faly, Springfield, Ohio
- 29 Edward Francis Freidhoff, Johnston, Pa.
- 30 Robert Melvin Haney, S. Milwaukee, Wis.
- 31 John Mark Harpothian, Seven Hills, Ohio
- 32 Gary Lee Hasley, Pontiac, Mich.
- 33 Frederick Allen Havercock, Greenbush, Mich.
- 34 William David Heid, Detroit, Mich.
- 35 David Allan Hicks, Ferndale, Mich.
- 36 Paul Richard Holland, Detroit, Mich.
- 37 James Edwin Holmes, Indianapolis, Ind.
- 38 Bernard James Howard, Farmington, Mich.
- 39 Stephen Anthony Hunter, Greenfield, Ohio
- 40 Arthur Lynn Hursh, Owatonna, Minn.
- 41 Micael Edward Idzikowski, Milwaukee, Wis.
- 42 Donald Wayne Johnson, Georgetown, Ill.
- 43 William E. Kochem, Jr., Schenectady, N.Y.
- 44 Stephen Paul Krupa, Cleveland, Ohio
- 45 Richard Wayne Landis, Nova, Ohio
- 46 John Cyrus McQueen, Massillon, Ohio
- 47 Thomas Paul Miley, Elyria, Ohio
- 48 William James Miller, Fremont, Cal.
- 49 Laurence Howard Norfleet, Flint, Mich.
- 50 Robert Joseph Paull, Warren, Mich.
- 51 Martin Paul Povrik, Bedford, Ohio
- 52 David James Powers, Milford, Mich.
- 53 Ryan Paul Provenzano, Vandalia, Ohio
- 54 James Meleaus Raptoulis, Detroit, Mich.
- 55 John Soren Rasmussen, Lee's Summit, Miss.
- 57 David James Smith, Indianapolis, Ind.
- 58 Kenneth Stanley Schocki, Brecksville, Ohio
- 59 Herbert Melville Stevens, Grand Blanc, Mich.
- 60 Michael Andrew Taulbitz, Greenbush, Mich.
- 61 Eduard Ivars Vanags, Hacienda Heights, Cal.
- 62 Oliver Allen Warner, Zionsville, Ind.
- 63 Richard Christopher Yonker, Mattdale, N.Y.
- 64 William Lee Ziecinia, Detroit, Mich.
- 65 Richard Lee Abel, Flint, Mich.
- 66 William Edward Gest, Grafton, Ohio
- 67 Donald Lee Heidorn, Dayton, Ohio
- 68 Anton Paul Koritnik, Cleveland, Ohio
- 69 William Lawrence Lloyd, Elyria, Ohio
- 70 Ronald Eugene Marker, Farmersville, Ohio
- 71 Douglas Lee Olson, Flint, Mich.
- 72 Keith Albert Pieper, Speedway, Ind.
- 73 Dean Clark Truene, Columbusville, Mich.
- 74 Raymond Gordon Vorthman, Sheffield Lake, Ohio
- 75 Harry Eugene Wood, Davison, Mich.
- 76 David Carman Alldredge, Anderson, Ind.
- 77 Darrell Otis Rogers, Ann Arbor, Mich.
- 78 Joseph Alexander Gerstle, Dayton, Ohio
- 79 Geza Zoltan Csonka, Buffalo, N.Y.
- 81 Peter Ted Lewandowski, Inkster, Mich.
- 82 Richard Alan Ganfield, Flint, Mich.
- 83 Gerald Michael Malen, Cleveland, Ohio
- 84 John Richard Pierron, Jr., Warren, Mich.
- 85 James Harold White, Flint, Mich.
- 86 Russel John Ruprecht, Mt. Clemens, Mich.
- 87 Thomas Alan Mast, Sterling Hts., Mich.
- 88 Jack Elbert Borwn, Euclid, Ohio
- 89 Kenneth Louis Schulte, Jr., Baltimore, Md.
- 90 Douglas Clark French, Elmhurst, Ill.
- 91 Richard Andrew Perry, Iron River, Mich.
- 92 Clyde James Stevens, Youngstown, Ohio
- 93 James Eugene Wick, Kettering, Ohio
- 94 Robert J. Bennett, Flint, Mich.
- 95 Thomas Andrews Hassett, Jr., Grand Blanc, Mich.
- 96 Robert Lawrence Nicolai, Flint, Mich.
- 97 Cecil Eugene Froels, Grand Blanc, Mich.
- 98 James Clarence Jewell, Janesville, Wis.
- 99 Kenneth Dale Kanaly, Carmel, Ind.
- 100 Alan Michael Paul Lesquesne, Bristol, Conn.
- 101 Richard Elliot Mattice, West Edmeston, N.Y.
- 102 Dennis James John Roger, Schenectady, N.Y.
- 103 Jason Alan Waite, Pulaski, N.Y.
- 104 Larry Rodger Herrin, Coatesville, Ind.
- 105 Jack Randall Sansom, Clarkston, Mich.
- 106 James Edward Bailey, Detroit, Mich.
- 107 Phillip Joseph Hajka, Livonia, Mich.
- 108 Charles William Knakal, Detroit, Mich.
- 109 Charles Earl Page, Speedway, Ind.
- 110 Phillip Scott Pagnia, Homewood, Ill.
- 111 James Edward Raz, Jr., Berwyn, Ill.
- 112 James Thomas Shandlers, Cleveland, Ohio
- 113 Michael Leslie Dinsmore, Detroit, Mich.
- 114 Edward William Kern, Jr., Buffalo, N.Y.
- 115 Ernest William Maurer, Jr., Parma, Ohio
- 116 Werner Erich Meier, Livonia, Mich.
- 117 Joseph Fred Robert Pacyna, New Britain, Conn.
- 118 Walter Hans Priebe, Twin Lakes, Wis.
- 119 Jacques Dicran Rietzke, Jr., Toledo, Ohio
- 120 Jerry Edward Stewart, Tipton, Ind.
- 121 Craig Marvin Tickle, Carrollton, Ohio
- 122 Daniel Joseph Whelan, Kettering, Ohio
- 123 Leonard Joseph Anthony Gralawski, E. Detroit, Mich.
- 124 Gary Edgar Ingersoll, St. Clair Shores, Mich.
- 125 John Gerhard Kurtz, Centerline, Mich.
- 126 Gary Dennis Teran, Detroit, Mich.



# Theta Tau Directory

Theta Tau Fraternity was founded at the University of Minnesota, Minneapolis, Minnesota, on October 15, 1904, by: Erich J. Schrader; Elvin L. Vinal, 4039 West Mercer Way, Mercer Island, Washington 98040; William Murray Lewis; and Isaac B. Hanks.

## PAST GRAND REGENTS

- Erich J. Schrader, *Alpha*, (1904-1919)\*  
 George D. Louderback, *Epsilon*, (1919-1925)\*  
 J. Sidney Marine, *Eta*, (1925-1927)\*  
 Richard J. Russell (Dr.), *Epsilon*, (1927-1931), 4575 Highland Rd., Baton Rouge, La. 70808  
 Fred Colman, *Lambda*, (1931-1935)\*  
 Herman H. Hopkins, *Beta*, (1935-1937), 3320 Culver Avenue, Evanston, Illinois 60201  
 John M. Daniels (Dr.), *Nu Hon.* (1937-1939), 338 Pinewood and Cole Road, Sarver, Pa. 16055  
 Russell G. Glass, *Sigma*, (1939-1946), Saddleback Lane, Gates Mills, Ohio 44040  
 Ralph W. Nusser, *Zeta*, (1946-1948), 609 West Dartmouth, Kansas City, Missouri 64113
- Norman B. Ames, *Gamma Beta*, (1948-1950)\*  
 Donald D. Curtis, *Omicron Hon.* (1950-1952)\*  
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BETA	Established March 26, 1906 Box 77, U. S. Highway 41, Houghton, Michigan 49931* Adviser: Prof. Herbert W. Hawin, Mechanical Engineering Department, Michigan Technological University, Houghton, Michigan 49931	Michigan Technological University
GAMMA	Established November 8, 1907 Box 134, Colorado School of Mines, Golden, Colorado 80401 Adviser: Dr. L. W. LeRoy, Department of Geology, Colorado School of Mines, Golden, Colorado 80401	Colorado School of Mines
DELTA	Established May 23, 1911 c/o Dr. Thomas P. Kicher, 212 Bingham, Case Western Reserve University, Cleveland, Ohio 44106 Adviser: Dr. Thomas P. Kicher, 1513 Sherbrook Road, South Euclid, Ohio 44121	Case Western Reserve University
EPSILON	Established May 4, 1911 Theta Tau, North Gate Hall, University of California, Berkeley, California 94720 Adviser: Dr. Douglas W. Fuerstenau, 382 Hearst Mining Building, University of California, Berkeley, Calif. 94720	University of California
ZETA	Established April 17, 1912 1942 Stewart Avenue, Lawrence, Kansas 66044* Adviser: .....	University of Kansas
THETA	Established May 26, 1914 c/o Student Activities Office, Room 741 SW, Mudd Building, Columbia University, New York 10027 Adviser: Dr. Elmer L. Gaden, Department of Chemical Engineering, Columbia University, New York, N.Y. 10027	Columbia University
IOTA	Established February 5, 1916 Student Union, University of Missouri at Rolla, Rolla, Missouri 65401 Adviser: Prof. Frank J. Capek, Civil Engineering Department, University of Missouri at Rolla, Rolla, Mo. 65401	University of Missouri at Rolla
LAMBDA	Established April 29, 1920 Merrill Engineering Building, University of Utah, Salt Lake City, Utah 84112 Adviser: Prof. Preston D. Linford, Civil Engineering Department, University of Utah, Salt Lake City, Utah 84112	University of Utah
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XI	Established January 13, 1923 1633-35 Monroe Street, Madison, Wisconsin 53711* Adviser: Dr. John W. Mitchell, Department of Mechanical Engineering, University of Wisconsin, Madison, Wisconsin 53706	University of Wisconsin
OMICRON	Established February 3, 1923 Theta Tau Box, Engineering Building, Iowa City, Iowa 52240 Adviser: Dr. Donald H. Madsen, Engineering Building, Iowa City, Iowa 52240	University of Iowa
PI	Established May 26, 1923 Thornton Hall, University of Virginia, Charlottesville, Virginia 22903 Adviser: Dr. George B. Matthews, Department of Aerospace Engineering, University of Virginia, Charlottesville, Virginia 22903	University of Virginia
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UPSILON	Established April 7, 1928 1322 West Cleveland, Fayetteville, Arkansas 72701* Adviser: Prof. Jim H. Akin, Mechanical Engineering Department, University of Arkansas, Fayetteville, Ark. 72701	University of Arkansas
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CHI	Established April 23, 1930 1614 East Speedway Boulevard, Tucson, Arizona 85719* Adviser: Prof. Philip B. Newlin, Civil Engineering Department, University of Arizona, Tucson, Arizona 85719	University of Arizona
PSI	Established May 7, 1932 Residence Hall, Montana College of Mineral Science & Technology, Butte, Montana 59701 Adviser: Prof. William J. Van Matre, Department of Mining Engineering, Montana College of Mineral Science & Technology, Butte, Montana 59701	Montana College of Mineral Science & Technology
OMEGA	Established March 26, 1932 107 Kansas City Street, Rapid City, South Dakota 57701* Adviser: Dr. A. L. Riemschneider, 2428 Woodland Dr., Rapid City, S. D. 57704	South Dakota School of Mines and Technology
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THETA BETA	Established March 2, 1963 Room 217, General Engineering Building, University of Washington, Seattle, Washington 98105 <i>Interim Adviser:</i> Prof. William S. Chalk, General Engineering, University of Washington, Seattle, Wash. 98105	University of Washington
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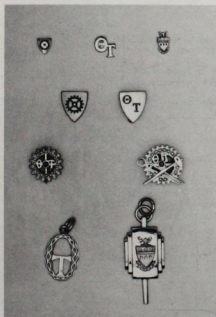
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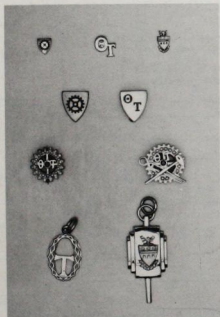
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Badge* (Row three, right)	14.00
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Crown set pearls	5.50
Alumni charm (Lower left)	8.10
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