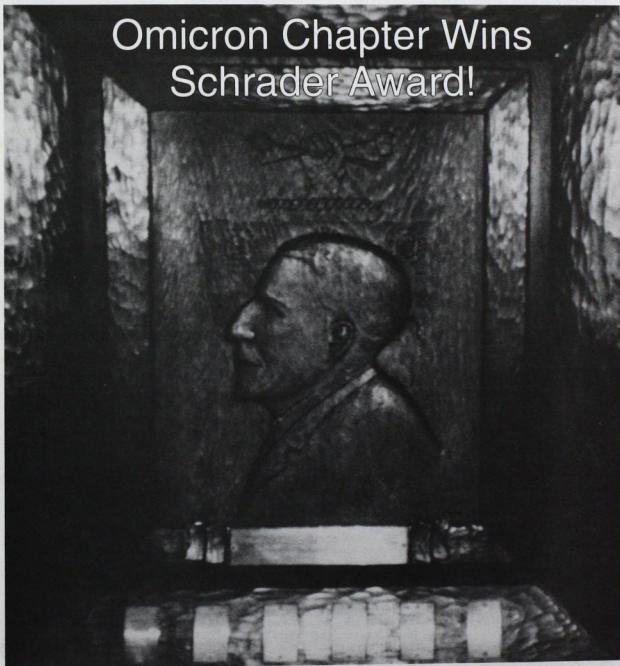


The GEAR of Theta Tau

Volume LXXIV, No. 1

Fall, 1991

Omicron Chapter Wins
Schrader Award!





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Executive Director Robert E. Pope, Z '52, delivering an inspiring speech at a recent chapter installation.

The Gear of Theta Tau is the official publication of Theta Tau National Engineering Fraternity and is published in the fall and spring. The magazine is an educational journal devoted to matters of fraternity interest and is sent at no cost to alumni whose addresses are on record. Send change of address to Theta Tau Central Office, 9974 Old Olive Street Road, St. Louis, MO 63141-5984. Special third class postage has been paid at Syracuse, New York.



Letter from the Grand Regent



What a terrific year this has been for Theta Tau ... and for me. In this, my first year as Grand Regent, I had the great personal privilege of installing **four** new chapters:

Upsilon Beta	Old Dominion University
Phi Beta	Oakland University
Chi Beta	University of Toledo
Psi Beta	University of Texas at Austin

This growth is absolutely essential to the continued good health of the Fraternity. In the fall we will survey engineering students at several schools to determine the level of interest in starting a Theta Tau chapter. We'll keep you posted on our progress.

As a member of Tau Chapter, I'm delighted to announce an exciting development in our efforts to re-activate Tau Chapter. Due principally to the efforts of Matthew L. Stace, T '85 and *The Gear's* own Sean P. Donnelly, T '88, a local professional engineering fraternity named Theta Tau Sigma was founded on March 24, 1991. Executive Council Student Member Michael T. Abraham travelled from Detroit to lend his expertise during the interview process and the organizational meeting. I anticipate that this enthusiastic group of Syracuse University engineers will become a Theta Tau Colony soon.

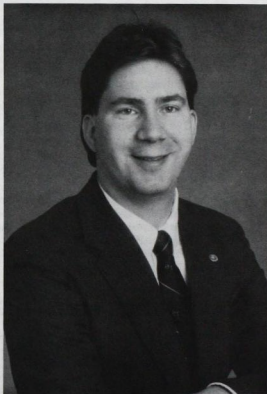
In July I authorized the formation of the Milwaukee Area Alumni Club. My hope is that the coming year will see the creation of several more Theta Tau Alumni Clubs. See related article by our Alumni Program Director Janice L. Wiitala, O '90, on page 13.

For those of you who are curious about the jewelry on my lapel in the photograph, that is the insignie of the Professional Fraternity Association; my Theta Tau badge is on my shirt near my heart where it belongs.

At the National Convention last year, the Executive Council realigned the region boundaries to group our chapters more effectively following our recent extension success. We also authorized two additional Regional Directors (for a total of six) to handle the increased load. The Great Lakes Region has nine chapters (in lower Michigan and Ohio) so we assigned **two**

Regional Directors to serve it. Also, Regional Directors were granted a vote at conventions, something I have been fighting for since I became Eastern Regional Director in 1982.

As this issue goes to press we will be meeting in Detroit for our fifth National Conference. The broad program of intense training sessions for our student members ensures that this will be the most productive National Conference ever! Unfortunately, budgetary constraints will keep us from



Chapter and to Epsilon Beta Chapter, both in Detroit. In June I had the distinct pleasure of presiding at a Sigma Chapter initiation ceremony ... I always enjoy visiting Columbus.

Technology has had a huge impact on Fraternity operations this year. More than two thirds of our national officers and chapters now have easy access to the Internet, a world-wide collection of interconnected computer networks, and therefore much of the Fraternity can communicate easily (and

for the most part without cost) via electronic mail. I expect that electronic mail will continue to change our Fraternity for the better. If you have access to the Internet try sending email to me at "dean@suvm.acs.syr.edu".

The year ahead will bring many new challenges, and some old ones. Our new computer system has really helped our Central Office to be more productive and to produce higher quality work. Unfortunately, we have long suffered from a shortage of staff and we have found our current headquarters to be somewhat cramped during the last few years. These are two difficult and expensive problems to solve, but I believe we will have to address them in the coming year.

As always, we are going to need your continued assistance to meet these challenges. I'll be writing you soon to solicit your support. Until then, "Whatsoever thy hand findeth to do, do it with thy might."

In H and T,

Dean, xxx!

Dean W. Bettinger, T '81

being able to fully fund the Conference again this year, therefore each Delegate and National Officer has been asked to pay a portion of his travel expenses.

One of the things I enjoy most about serving Theta Tau is the opportunity to make official visits to our chapters. Last January I attended the dedication ceremony for Chi Chapter's wonderful new house which was built from the ground up to their specifications. The timing was perfect as I flew from snow-bound Syracuse to sunny Tucson ... one of the perks of my office. I was able to make brief visits to Xi Beta



NEW APPOINTMENTS

At the 1991 National Conference Grand Regent Bettinger appointed Brad D. Besmer, Ω '86, as Grand Marshal. Brad fills the position formerly held by Anthony M. Hamilton, T '86, who was elected in 1990, but resigned this summer because of the time required for new commitments. Brother Hamilton is currently an intern with the Church of Christ in Chicago; he is working toward becoming a full-time Counsellor for the church.

FAREWELL TO STAFF ASSOCIATE

The Theta Tau Central Office will be bidding farewell to its Staff Associate Brian Reid, Z '91, at the end of September. Brother Reid has been a great help to Executive Director Robert E. Pope while working at the Central Office since the end of May. A recent graduate from the University of Kansas in electrical engineering, Reid has been involved in managing the Fraternity's database of student members and alumni.

Brian will be reporting to active duty as a 2nd Lieutenant at Offutt Air Force Base in Omaha, Nebraska.

His departure leaves vacant the Staff

Associate position, in which a student member or young graduate can work for the national Fraternity. This job calls for a self-motivated member with energy, enthusiasm, and excellent communication skills, available for at least six months. The position requires some travel, provides limited salary and great personal satisfaction. This position must be filled continuously in order to maintain services demanded by our growing fraternity. Interested members should send a resume emphasizing Theta Tau experience to Executive Director Pope in the Central Office.

CENTRAL OFFICE RELOCATES

The Theta Tau Central Office was established in 1963 to consolidate the daily operations of the Fraternity at the national level. For the past eight years, the Central Office has been located in leased



Executive Director Robert E. Pope, Z '52, and Grand Regent Dean W. Bettinger, T '81, install a new Central Office computer system, summer 1990.

space in the Theta Xi Memorial Headquarters.

On November 1, 1991, the Central Office will move to a larger space (approx. 950 square feet) on the first floor of the 655 Office Building located in the Creve Coeur Executive Office Park. The larger facility will promote increased efficiency with anticipated staff growth in the years just ahead. It will also present a superb corporate fraternal image. The address will be 655 Craig Road, Suite 128, St. Louis, MO 63141-7132.

Extension Milestones



Theta Tau's road to extension success included a stop at Southern Methodist University in Dallas for the installation of Tau Beta Chapter.

Southern Methodist University
Dallas, Texas
Tau Beta Chapter Installed
May 4, 1990

Old Dominion University
Norfolk, Virginia
Upsilon Beta Chapter Installed
November 3, 1990

Oakland University
Rochester, Michigan
Phi Beta Chapter Installed
January 5, 1991

The University of Toledo
Toledo, Ohio
Chi Beta Chapter Installed
May 4, 1991

University of Texas at Austin
Austin, Texas
Psi Beta Chapter Installed
April 27, 1991

Syracuse University
Syracuse, New York
Colony petition approved at National Conference
August 15, 1991

The 1990 National Convention



The 1990 National Convention was held in Iowa City, Iowa from August 16 to 19. It was officially named to honor Past Grand Regent A. Thomas Brown, M '77. Omicron Chapter (University of Iowa) played host to students and alumni from across the nation. Seated officially for the first time were delegates from Rho Beta Chapter (Ohio University), Sigma Beta Chapter (University of Wisconsin - Milwaukee) and Tau Beta Chapter (Southern Methodist University). Also, this was the first time that Gamma Beta Chapter (George Washington University) was seated at a Convention since being reestablished.

A number of interesting events were held. The opening Dinner featured a welcome from Dr. Paul Scholz, Associate Dean of the College of Engineering. In his speech he featured not only the college, but also some of the things that Iowa is noted for (besides corn and hogs). The University of Iowa is known for medical research and Biomedical Engineering, the Institute of Hydraulic Research, and involvement in current space programs. Also, notable individuals from the state include Former President Herbert Hoover, John Wayne and Dr. James Van Allen (for whom the Van Allen Radiation Belt, which encircles the earth, was named).

There was a Tour of the Herbert Hoover Presidential Library in West Branch Iowa. On display was a special Smithsonian collection of evening gowns, containing one that had belonged to each First Lady.

There was a tour of the University of Iowa campus and an in depth tour of the Ice Research Laboratories, where research on the construction of ice-based structures is

conducted.

A cookout was held at the Coralville Reservoir. Chapter Games, consisting of miscellaneous tasks and the ever-popular tug-of-war, were held on the grounds adjacent to the dam. The Oakland University Colony won the championship trophy, while Xi Beta Chapter was deemed "Most Spirited."

The Awards banquet was the highlight of the meeting. Brothers Charles L. Brown, II '43, John Morrow Daniels, Sr., N '20, Curtis Emerson LeMay, Σ '32, Robert L. Miller, O '41, C. Maxwell Stanley, O '26, were inducted into the Theta Tau Alumni Hall of Fame (see article on page 10). Brother Miller was the featured speaker of the evening. He offered insight to some engineering achievements and equally entertained us with some highlights of his career. Especially memorable was hardening plastic in a storage silo, which made a monument (built quickly, but not easily destroyed) to that achievement.

The Founders' Award (for the most improved chapter over the previous biennium) and the Schrader Award (for the most outstanding chapter during the previous biennium) went to Omicron Chapter. Omicron also took Best Presentation, Best Display, Best Newsletter. They received an Outstanding Chapter Performance Award, as well as being named the Best Delegation from the Central Region. Other Best Delegation Awards went to Xi Beta Chapter for the Eastern Region, Rho Chapter for the Southern Region and Chi Chapter for the Western Region. Chi Chapter also won the Member-Miles Award, received a Recruitment Award for maintaining a chapter size

of over 40 members, and received an Outstanding Chapter Performance Award. Other chapters winning the Recruitment Award for maintaining chapter size were Omega Chapter and Kappa Beta Chapter, with Pi, Lambda Beta, and Pi Beta receiving awards for increasing chapter size by 20% over the year. Phi Chapter took the Best Photograph Award and an



Outstanding Chapter Presentation Award. Other chapters receiving this award (for earning more than 700 points in the Schrader Award competition) included Lambda Beta, Omicron Beta, Nu Beta, and Pi Beta Chapters. Robert T. Utzinger, Σ '92, was named Outstanding Delegate.

Chapter officer workshops were educational as were seminars on rushing, pledging, Rube Goldberg Contests, Fraternity Expansion and Substance Abuse. An Initiation Ceremony was conducted. A Memorial Service honored our departed Brothers. The Executive Council was elected for the 1990-92 biennium. Brother Dean W. Bettinger, T '81, was elected Grand Regent. Other officers are listed inside the front cover, and their profiles can be found on page 4.

Business meetings were devoted to committee reports. Plans for the next National Rube Goldberg Contest were introduced. A student member dues increase was passed, as well as an increased discount for timely payment. A budget that invested heavily in extension was approved. Much effort was spent on refining the proposed "Probationary" and "Under Advisement" status. These new designations are intended to be used as a control device to help chapters turn around before they fail. There was also debate about Ritual amendments.

All in all, another excellent Theta Tau event was well attended and enjoyed. Many thanks to Omicron Chapter, the Host Committee and Committee Chairman, Bob Johnson, for making this a successful event.



Brothers (l. to r.) Brian K. Dieringer, ΨB '93, Glen A. Wilcox, Ω '90, Randall T. Krum, P, '92, and Michael T. Abraham, EB '92, relax at the Convention Picnic.



Executive Council Profiles

GRAND REGENT

DEAN W. BETTINGER, T '81

Brother Bettinger is a native of Baldwinville, New York. Dean has been a dedicated member of the fraternity as demonstrated by his services to the fraternity on many levels. He has exemplified leadership in holding various Executive Council offices, including Grand Marshal and Grand Vice-Regent.

He has assisted the Central Office and Executive Director Robert E. Pope, Z '52, several times with his background in and experience with computer systems. Brother Bettinger installed the Central Office's first computer system, and has recently modernized the entire system.

Dean is the Facilities Manager at the New York State Center for Advanced Technology in Computer Applications and Software Engineering at Syracuse University. This is a consortium of universities charged with increasing the collaboration between university and industry in terms of research and technology transfer. Dean also maintains a private consulting practice.

He and his wife, Erin, have settled in Syracuse. They have been married seven years.

GRAND VICE-REGENT

HALBERT D. CHURCH, JR., X '80

Hal Church is now holding his second office on the Executive Council. His first elected office was Grand Marshal being elected in 1988. Brother Church is a graduate of the University of Arizona where he was quite an active member of Chi Chapter.

Hal is undertaking the task of working with chapter advisers and house corporations across the nation and establishing a network of cooperation between these brothers and the national Fraternity. This is an appropriate job for Hal because he has had valuable experience as an adviser and house corporation officer for Chi Chapter. He is currently Secretary-Treasurer of the Chi Chapter House Corporation and was an instrumental alumnus in the chapter's struggle to build a new house.

Brother Church is a staff engineer at Hughes Aircraft managing the VAX Computer Center. He has been with the company for eleven years.

GRAND SCRIBE

ROBERT E. POPE, Z '52

Executive Director Pope is well known by most members of Theta Tau Fraternity. He has served Theta Tau as Grand Scribe

since 1956, and as full-time Fraternity employee since 1959. He lives in St. Louis, Missouri, which is the location of the Theta Tau Central Office. His sincere dedication to the fraternity is appreciated by all Brothers; in 1987 he was inducted into the Theta Tau Alumni Hall of Fame.

GRAND TREASURER

ARTHUR M. PARTIN, T '84

Art Partin was elected Grand Treasurer at the 1990 National Convention, after having served on the Executive Council since 1986, first as Grand Outer Guard, then as Grand Inner Guard.

Current projects he is involved in include keeping track of chapter loan repayments to the national fraternity, handling the Founders' Memorial Fund and the investment fund, preparing the Fraternity budget, and overseeing the National Rube Goldberg Machine Contest, which includes communicating with all of the chapters and colonies.

Brother Partin works as a Fire Protection Engineer for Hartford Steam Boiler Inspection and Insurance Company, performing on-site field work and inspections of industrial plants. He ensures that they have proper storage, venting, and sprinkler systems, and that they are following all required codes.

Art has been married for 3 1/2 years. He, his wife Linda, and their four-month old daughter Kailey Lynn recently moved to Newark, Delaware.

GRAND MARSHAL

BRAD D. BESMER, Ω '86

Brad Besmer grew up in the small town of Burk, South Dakota. He joined Theta Tau's Omega Chapter while a student at South Dakota School of Mines and Technology.

After graduating in 1986, Brother Besmer became active with the fraternity on a national level. From 1986 to 1988 he served as Southern Regional Director. He has served on the Finance Committee for the past three years and has aided the Grand Treasurer with managing and planning the Fraternity's budget. He is currently Western Regional Director, and is responsible for maintaining contact with the chapters and coordinating annual regional conferences.

He has recently begun a new job with Computer Technology Associates, Inc. in Colorado Springs, Colorado. He is a Software Systems Engineer developing software for a computer security system for

the U.S. Air Force. He had previously worked for Texas Instruments as a computer systems engineer.

He, his wife Diane and their children Brianna and Jeremy have settled in Colorado Springs.

GRAND INNER GUARD

JEROME R. PALARDY, EB '91

Brother Palardy has served on the Executive Council since 1986, starting with two terms as Student Member. In 1990 he was elected Grand Inner Guard.

He has been active working on extension projects, working with the Detroit area alumni, and monitoring chapters which are having difficulty as part of an interim committee set up at the 1990 Convention.

Jerry works at RGIS Inventory Specialists as a Computer Science Department Project Leader. He is involved with developing specialized inventory and related business software.

Jerry married Louise Buyse of then Oakland Colony (Louise M. Palardy, ΦB '88) on December 16, 1989. The couple built a house in Waterford, Michigan, and moved in during September 1990. Jerry is now working on finishing the basement, and is counting on help from his many fraternity Brothers in the area.

GRAND OUTER GUARD

MARK R. JANSSEN, Ω '88

Brother Janssen has been a National Officer since 1986. He was Western Regional Director from 1986-1988, Professional Development Director until 1990, when he was elected to the Executive Council.

His responsibilities include reviewing the engineering curricula at schools around the country which have potential for extension, plus evaluating those schools where chapters exist; working with the Central Regional Director to help coordinate Regional Conferences; helping to plan National Conferences and Conventions; and reviewing cost comparisons of potential locations for meetings.

Mark works for Setter, Leach and Lindstrom, architectural engineering consultants, as a project design engineer. He has worked there for three years, and specializes in commercial buildings, distribution centers, hockey rinks, schools, and department stores.

Mark has been married for two years; he and his wife Debbie have one son, Greg, aged eight months.

Continued on page 9, column 3.

Chapter News



Xi

90 Seconds Over Platteville With Bob As My Co-pilot

by

Robert A. Aphorpe, ☞ '89

Colin P. Crowley, ☞ '90

John T. Monnett, ☞ '94

It was a cold and gloomy winter's day when the three of us Xi guys set out from Madison packed into a Honda built for two. We decided to enjoy warmer climes over our Spring Break, so we headed for Minnesota.

Five uneventful hours later we rolled into Minneapolis. Three hours after that we found **Alpha Chapter's** house. They invited us in and quenched our thirst. In debt to them, we felt obligated to engage in a primitive Minnesota tradition: floor hockey with Bob as our goalie. Several hundred bruises (and goals) later we departed in humiliation.

Still seeking warmer climes we tried going west, finding the barren wasteland known as South Dakota. At the end of this trail lay the South Dakota School of Mimes [sic] and our Brothers from **Omega Chapter**, who contrary to popular opinion were not street performers. They were, however, quite surprised to find us Xi guys sneaking into their house around midnight while they were watching that cinematic masterpiece, *Nebraska Ninja III: The Harvest*. After selling them our patented Theta Tau Beer Coolies (\$5 for can size, \$6 for bottle size), we still found it too cold for our tastes, so

we finally decided to turn due south.

Only one obstacle barred our path: the Black Hills. Thirty miles and four hours later we understood why they were called the Black Hills, and we had made it into Wyoming. Words cannot describe the excitement we found there, but 'none' comes pretty darn close. By the time we hit Colorado we were violently sick of the one tape we had brought. In New Mexico we avoided the age old question of which way to turn at Albuquerque by going straight through it to Flagstaff and then taking a left.

At 9:00 p.m. Mountain Time, March 19, 1990 we finally found the warmth we were looking for in Tucson, Arizona, the home of **Chi Chapter**. Immediately we found housing at the house of a brother known as John (Thanks, John! and by the way, where are our T-shirts we bought?). For three days we took in the sights of Arizona: beer, cacti, ghost towns and campus women sans wool.

Finally, missing our frozen wasteland back in Madison, we headed home. It must have missed us too, because on the way back, it met us in Oklahoma, as we were caught in a blizzard. Through Kansas our one tape sounded pretty good, at least compared to the scenery. After more hours of driving, we decided to stop at **Zeta Chapter** when an insane suicidal road sign lunged itself at our mighty Honda. Our brothers of Zeta were gracious enough to put us up for the night, and in light of that we decided not to steal their door.

On Saturday morning most college students either sleep or watch cartoons. We, on the other hand, were more adventurous. We went into Iowa.

By 4 p.m. we were knocking on **Omicron's** door. They were still pretty hung over from Friday night. We were sorry we had missed it. After considering stealing their pig, we chose something else that fit into our Honda (and which our Regent has since lost inside one of our house walls).

Our next destination was home: Wisconsin. On passing out of Iowa, we engaged in a discussion on the relative merits of visiting our Brothers at **Nu Beta**

Chapter. We were so engrossed in this conversation that we had left Platteville before we realized it.

Thus, we successfully returned to Xi Chapter. We discovered that you never really know someone until you have been trapped in a car with them for a week and a half.

My wristwatch, which I had left at Alpha, also eventually returned to Madison, but not before visiting Milwaukee.

We would like to thank all of the wonderful brothers of Alpha, Omega, Chi, Zeta, and Omicron Chapters who made this trip possible (sorry Nu Beta, maybe next time). In the future, be warned, chapters of Theta Tau: when you least expect it, the infamous Xi guys may show up at your door peddling Beer Coolies.

Xi Beta

On January 7, 1991, Xi Beta Chapter of Theta Tau was invited to a ceremony dedicating the opening of the Charles H. Waller Ambulatory Care Center at Children's Hospital of Michigan. This is because of the contributions made by Theta Tau alumni and student members. In attendance representing Theta Tau were David Stevanovski, ☞ '88, Nicholas P. Poole, ☞ '88, and George K. Kostopoulos, ☞ '88.

The idea to help Children's Hospital was that of David Stevanovski. After hearing of the "Campaign For Kids" that Children's Hospital was hosting, he presented the idea at the next alumni meeting. All were excited and ready to participate, and a plan was formulated. The first fund raising event was a bowl-a-thon, and it turned out to be a success. Almost \$1,500 was raised. Since then various other fundraisers have been held, and more are planned.

The next phase of the plan is to try to have all the Detroit area chapters participate in this fundraising effort. It should be stressed that the name on the marble walls reads: "THETA TAU FRATERNITY," and does not specifically recognize any one chapter. We strongly feel that Theta Tau Fraternity as a whole can greatly benefit. Based upon our continuing contributions, the recognition to us will be reflected. Be it by placing our name on a wall as is the present case, or dedicating a room, or an entire wing to us.

If you are ever in the Ambulatory Care Center of Children's Hospital, you will notice four marble walls near the front doors, listing all those who contributed to



Xi Chapter explorers (l. to r.) Robert A. Aphorpe, ☞ '89, Colin P. Crowley, ☞ '90, and John T. Monnett, ☞ '94.



Chi Chapter's new house, which was dedicated in January, 1991.

this effort. Theta Tau Fraternity is one of those contributors.

--George K. Kostopoulos, EB '88

Rho Beta

Rho Beta Chapter at Ohio University started off the last school year with a community service project. We'd like to take a minute to share it with the rest of our chapters.

Jeff Dill, our faculty advisor, volunteered to be chairman of the committee to pass the Athens County school levy, which has already been twice defeated. The schools are in poor condition and hard-working teachers are losing their jobs. Jeff designed two phases into a plan to accomplish his goal of getting the levy passed.

The first phase involved getting as many students as possible registered to vote in Athens County. To achieve this, all Rho Beta members agreed to sign up as Deputy Registrars, which enabled them to register others to vote. This required nothing more than signing a form at the Athens County Board of Elections and picking up a stack of voter registration cards. The second phase was ensuring that the school levy bill passed. If the levy were to pass, the Athens County schools would receive \$6.5 million for much needed improvements to the faculty and facilities.

The passing of this levy would have a great impact not only on the quality of education in Athens schools, but at Ohio University as well. If the educational system surrounding OU is poor, it will be difficult to attract and retain quality faculty members. Rho Beta Chapter supported Jeff Dill's efforts one hundred percent.

[Editors' note: the School Levy was in fact passed, due at least in part to the conscientious efforts of the brothers of Rho Beta Chapter.]

Phi Beta

Phi Beta Chapter at Oakland University has been busy since its installation on January 5, 1991.

Some of their intra-fraternal activities included attending the Great Lakes Regional Conference with a delegation of eight members and sending eleven members to the National Rube Goldberg Machine Contest at Phi Chapter (and winning third place). They also assisted a group of seven elementary school children in designing a structure that was entered in the international Odyssey of the Mind competition, which promotes creative problem solving.

The brothers participated in the National Engineers Week on the Oakland campus by hosting a contest in which contestants, supplied with essential physical parameters, calculate the distance a ball will travel when shot out of a spring-loaded cannon. They also helped teach science to fifth graders at Meadowbrook Elementary School. In addition to these activities, they endeavor to keep in touch with their alumni, holding an Alumni Dinner about once a month.

Members of Phi Beta have also logged an extraordinary number of road-trip miles for one semester. There were a total of

seven road trips, the longest of which was the Psi Beta Chapter installation, for which two Phi Beta's travelled 4,000 miles. Other chapters visited include Chi Beta (for their installation), Phi (for the Rube Goldberg contest), Pi Beta (twice), Upsilon (twice), Epsilon Beta (three times), and Iota Beta.

One member who racked up quite a few miles of a different sort was David S. Bowden, Phi Beta '91, who as part of a team of Oakland engineering students built and entered a car in the Society of Automotive Engineers Supermileage Vehicle Competition on June 1, 1991. The team used a 3.5 horsepower Briggs & Stratton lawn mower engine, and was able to achieve an average of 1083.21 miles per gallon for six laps around a 1.6 mile track.

New Houses

Mu

Mu's new chapter house was one of six buildings recently constructed by the University of Alabama. The University wanted to establish new housing for small campus groups, and since Mu Chapter had an old, run down house, it became a candidate for one of them. The Chapter has rented this new house from the University since the fall of 1990. It contains four five-person units, housing a total of twenty students, and each unit has its own bathroom. Mu Chapter members raised money in order to furnish the house, and buy appliances, such as a washer and dryer.



Mu Chapter's new house, occupied since Fall, 1990.

Chi

Chi Chapter has entered a new era with the completion of a new house.

In July of 1989 we were forced to give up a portion of our front yard to accommodate the widening of Speedway Boulevard, a major thoroughfare in Tucson. Unfortunately, half of our house was located on this parcel of land, and as a result, the front portion had to be demolished.

After much discussion we concluded that it would not be feasible to improve the remaining section of the old house, so we were forced into seeking alternatives to remedy the situation.

Chi Chapter then began negotiating with the University of Arizona, which eventually led to a land swap, and a sum of money which would eventually materialize into our new chapter house.

Construction of the new house was delayed because both the University and Chi Chapter still needed to agree on the specifics of the contract. After fine-tuning our agreement with the University, we were able to start building in August of 1990.

The new, modern home of Chi Chapter contains various amenities which were much needed in our old house. In a nutshell, our new facility has eight individual apartments which can accommodate 16 people, a meeting room with an adjacent computer/study room, and a large recreation room with an outdoor patio and courtyard. The new house is only two blocks from our old home.

The dedication was held January 19, 1991. Grand Regent Dean W. Bettinger, T '81, was present for the ceremony. The chapter room was named after Chapter Vice-Regent Halbert D. Church, Jr., X '80, who as Chapter Adviser and a House Corporation officer, was instrumental in building the house.

Chi Chapter is proud of its new home, and would like to extend an invitation to all our brothers and their families to stop by and visit.

—David M. McMillan, X '92


Lambda Beta

The Brothers of Lambda Beta Chapter, both student and alumni, are enjoying the fruits of their determined effort to raise money for a new chapter house on the Tennessee Technological University campus.

The chapter moved into its new house, located at the intersection of 16th Street and Mississippi Avenue, in the fall of 1990.

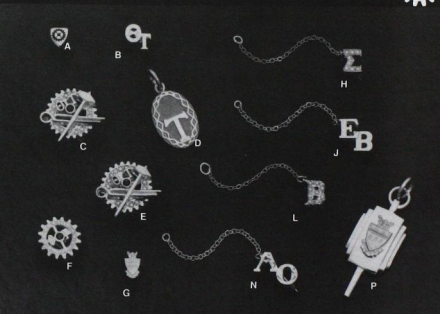
"Our recent house purchase has definitely brought us together. My congratulations on an outstanding effort by the students and alumni of Lambda Beta Chapter," says Regent David E. Beaty, AB '91.

The newly acquired building had previously been a fraternity house, and is roughly 15 years old. Up to 8 persons can live in the house which has a large basement and entertainment room. Michael L. Brown, AB '76, is the Housing Committee Chairman and was one of many active alumni in the local House Corporation instrumental in obtaining the house.



Theta Tau

jewelry



Qty.	Item	Description	Unit Price	Total
Official Jewelry				
A.	#902	Official Recognition Pinzette, GEP	\$ 2.25	
B.	#903	Monogram Recognition Pinzette, Gold Filled	2.80	
C.	#102	Badge w/Close Set Pearls, 10K	36.75	
D.	#905	Alumni Chain, 10K	33.90	
E.	#103	Badge with Crown Set Pearls, 10K	44.90	
F.	#100	Sister Pin w/Close Set Pearls, 10K	30.25	
G.	#900	Coat-of-Arms Recognition Button, 10K	10.25	
Accessory Jewelry				
H.		Close Set Pearl Single Letter Guard, 10K	27.00	
I.		Close Set Pearl Double Letter Guard, 10K, not shown	36.00	
J.		Double Letter Plain Guard, 10K	18.00	
K.		Single Letter Plain Guard, 10K, not shown	12.50	
L.		Crown Set Pearl Single Letter Guard, 10K	32.50	
M.		Crown Set Pearl Double Letter Guard, 10K, not shown	45.00	
N.		Enriched (Engraved) Double Letter Guard, 10K	19.00	
O.		Enriched (Engraved) Single Letter Guard, 10K, not shown	14.00	
P.		#500 Alumni Key, 10K	40.00	
Q.		Identification Pin, not shown	7.00	
R.		Conference/Convention Bag, not shown	6.00	
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Your State & Local Taxes				
Shipping & Handling			3.00	
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Theta Tau
 Executive Secretary
 9574 Old Olive Street Road
 St. Louis, MO 63141-5984
 314-997-3234



Extension Update



Gaylia A. Gray, TB '91, and Steven A. Bresnahan, TB '90, accepted the Tau Beta Chapter charter, and spoke on behalf of the newly installed chapter.

Tau Beta Chapter Dallas, Texas

On May 4, 1990, on the Southern Methodist University Campus, Tau Beta Chapter was installed into Theta Tau Fraternity. The event marked the final installation ceremony conducted by then Grand Regent Randall J. Scheetz, O '79. The Fraternity is proud of this achievement. This marked the eighth chapter to be installed or reinstated during Brother Scheetz's terms as Grand Regent.

The ceremony was held at the Dallas Hilton Inn, with the celebratory banquet in the South Ballroom of the hotel. Some alumni in attendance were Lloyd Connel, Φ '32, Richard L. Gay, Y '84, Scott W. Osborne, A '84, and Loyal C. White, HB '65, whose daughter, Tracy A. White, TB '93, was initiated into Tau Beta Chapter.

The road to chapterhood for these students at S.M.U. was a story of progress. The group began as a local engineering fraternity named Alpha Delta Tau. With the encouragement of Brother Michael T. Abraham, EB '92, from Theta Tau's Central Office, the students decided to pursue membership in Theta Tau Fraternity. Since certification as a Colony in May of 1989, 23 new members joined the colony. They were highly organized, hold-

ing weekly meetings and planning several professional activities. These included sponsoring guest speakers on the campus, sponsoring plant tours of industries in the Dallas area, and assisting with a career fair on the campus.

As a colony, and now as a chapter, the students at S.M.U. have sought to build relations with local alumni. They have held a reception for Dallas area alumni and have published their first chapter newsletter.

Upsilon Beta Chapter Norfolk, Virginia

Upsilon Beta Chapter was born when twenty-one students from Old Dominion University in Norfolk, Virginia were initiated as Theta Tau brothers on November 3, 1990. The ceremony, as well as the banquet that followed, took place at Armed Forces Staff College in the Norfolk Naval Center.

The entire Executive Council attended, as well as Atlantic Regional Director Lee C. Haas, P '62, and brothers from Pi, Rho,

Gamma Beta and Lambda Beta Chapters. Also in attendance was Cmdr. Thomas C. Cooper, E '70, current Upsilon Beta Chapter Advisor.

Upsilon Beta was formerly the local fraternity Theta Tau Omega. Brother Richard E. Jenkins Jr., YB '90, was instrumental in getting the colony established and guiding it toward chapterhood; he served as the colony's first President. Of the twenty-one newly initiated brothers, twelve are charter members, with the remainder making up the first pledge class.

The chapter has established some goals for the coming year. These include trying to locate a chapter house on campus. The brothers currently use a school auditorium for chapter meetings. Several of the members live in a common apartment house which serves as an alternate gathering location.

Some other projects include publishing the first newsletter and improving this fall's rush program.

This spring they initiated their first pledge class of six members. The Associate Dean of the engineering school, Gary D. Crossman, has become an alumnus initiate of the chapter.

Phi Beta Chapter Rochester, Michigan

After nearly three years of determined effort, the members of the Theta Tau Colony at Oakland University were initiated as brothers of Theta Tau on January 5, 1991. The installation ceremony of Phi

Beta Chapter took place at the Oakland Center on the university campus, located in Rochester, Michigan.

Many Theta Tau alumni from the Detroit metropolitan area were present, including Brian T. Cronan, IB '88, Jason A. Jarvis, IB '90, Michael G. Ernat, IB '90, Jeffrey M. Beil, OB '87, Erol R. Selamet, OB '89. Alumni from more distant chapters included J. Robert Dean, Y '83, David P. Rieland, E '90, and Helen M. Raffety, O '90. Former *Gear* Editor-in-Chief Arthur Petrezelka, O '79, made a surprise appearance.

During the ceremonial banquet, held at Petruzzello's Restaurant in Troy, Brother George G. Dodd, Z '60, gave a



Richard E. Jenkins, YB '90, at the ODU Colony Certification. He was crucial in leading the Colony toward chapterhood.



Joseph J. Pellerito, ΦΒ '89, & Arthur E. Stephenson, ΦΒ '91, at the Phi Beta Chapter Installation.

fitting invocation and Grand Scribe Robert E. Pope, Z '52, followed with the banquet address. The Phi Beta Chapter Charter was presented to newly initiated Brothers Joseph J. Pellerito, ΦΒ '89, and Arthur E. Stephenson, ΦΒ '91, and the two spoke on behalf of their newly founded chapter. Brother Pellerito was instrumental in getting the colony started back in September of 1987.

Grand Inner Guard, Jerome R. Palardy, EB '91, then Student Member of the Executive Council, had been very active and helpful in guiding the group towards chapterhood. It was he who originally initiated the first organizational meetings to spark students' interest in Theta Tau. Brother Palardy is commended by the National Fraternity for all his extension efforts across the country.

Phi Beta is now an integral part of the Theta Tau community in the Detroit Division as well as at Oakland University. The Chapter has demonstrated professional leadership in conducting local tours of the Fermi II power plant and General Motors, and in sponsoring presentations by Detroit Edison Power Company.

Chi Beta Chapter Toledo, Ohio

The University of Toledo is now home to Chi Beta Chapter of Theta Tau. The installation ceremony took place on May 4, 1991, at the Driscoll Center for Continuing Education on University Hills Boulevard.

Brothers from several chapters, plus almost the entire Executive Council and many national officers, were in attendance at the evening ceremony and banquet in honor of the occasion. Gamma Beta, Epsilon Beta, Iota Beta, Xi Beta, Omicron Beta and Phi Beta chapters had members present to welcome the new members of

Theta Tau. Some alumni present included Nicholas P. Poole, ZB '89, Christopher A. Goldsmith, FB '90, Paul Van Benthem, Z '84, and Jeffrey L. Cline, Z '82. At the close of the ceremonial banquet, Grand Regent Dean W. Bettinger, Grand Scribe Robert E. Pope and Past Grand Regent Randall J. Scheetz each spoke on behalf of the national Fraternity. Newly initiated Brothers Philip R. Hulbert, XB '91, and Thomas J. Tamulewicz, XB '92, accepted the

chapter's charter on behalf of all members of Chi Beta Chapter.

Chi Beta Chapter began as a local Fraternity in the Spring of 1989. A group of representatives from Theta Tau, including current Student Member of the Executive Council Michael T. Abraham, got former colony president Mike Murdock and some of his friends interested in becoming a colony of Theta Tau Fraternity. After petitioning successfully, the colony was officially certified on January 19, 1990.

During the fall semester of 1990, the group organized a petition to the national Fraternity to be granted chapter status. Their petition was approved last February and plans were underway for the chapter installation in May.

Prior to its installation, the local colony had an active social and philanthropic program. These activities included a formal dinner in the fall, monitoring stations at a walk-a-thon for the Juvenile Diabetes Foundation, and visiting the Friendly Center, an organization for underprivileged children.

Psi Beta Chapter Austin, Texas

Psi Beta Chapter at the University of Texas at Austin was installed on April 27, 1991. The installation ceremony and banquet were held at the Red Lion Hotel in Austin, Texas.

Most of the Executive Council attended, including Grand Regent Bettinger, who presented the chapter's charter. Also in attendance were Alumni Otto W. Pfahlf, MB '69, Daniel V. Grelinger, Z '84, and Deanna Sanderson Grelinger, Z '84, as well as students from Upsilon, Gamma Beta, and Phi Beta Chapters.

In the spring of 1989, letters and reply cards were sent from the Central Office to U of T engineering students. With an entire University population of 51,000, the en-

gineering school consists of about 7000 students. There were several responses, including Brian K. Dieringer, ΨΒ '93, Randall S. Harris, ΨΒ '91, Erika Muller ΨΒ '91, Michael J. Quinney, ΨΒ '92, Steven M. Tait, ΨΒ '91, and D. Mark Thompson, ΨΒ '92. These were some of the 25 founding members, who were instrumental in successfully establishing the local Upsilon Tau Fraternity. The group eventually gained colony status and petitioned the National Fraternity for a chapter charter.

Theta Tau is the only engineering fraternity on the U of T campus. They have been active participants in campus organizations as a colony, and as a chapter. The brothers remain active with the student recruiting group which it started as a colony. The group visits local high schools on behalf of the engineering school and informs students what life is like in engineering school.

The chapter also sponsors weekend service projects in Mexico. The brothers help families with construction projects such as repairs and house improvements.

Executive Council

Continued from page 4

STUDENT MEMBER OF THE EXECUTIVE COUNCIL

MICHAEL T. ABRAHAM, EB '92

Brother Abraham is serving the fraternity in his first term as a member of the Executive Council. He is completing his Bachelor's degree in Chemical Engineering at Wayne State University. Fellow brothers regard him as a mature, hard working young man with a distinct professional attitude.

His energy and dedication is demonstrated by the numerous responsibilities he has assumed for the Fraternity. These include working in the Central Office and pursuing a great deal of extension activity across the country. He has also served as Eastern Regional Director, and he was recently Chairman of the Host Committee for the National Conference in Detroit.

Brother Abraham was named Outstanding Delegate at the 1986 National Convention, an honor he shares with fellow Executive Council members Dean W. Bettinger and Robert E. Pope. At the 1986 Convention, many brothers realized that Brother Abraham would become a significant contributor to Theta Tau's future as a growing Fraternity. His determination mirrors the Fraternity's achievements in extension and organization.

Continued on page 20, column 2.



Alumni Hall of Fame



Charles L. Brown
Π '43

Brother Charles Brown is honored by Theta Tau for his distinguished career at AT&T. He is retired Chairman of the Board of that company, after a professional career in the organization working his way up through the ranks.

A native of Virginia, Brother Brown had been exposed to the telephone industry even as a youth. His father was a telephone company manager, and his mother was an operator and supervisor prior to her marriage. Brother Brown spent summers digging holes for telephone poles. After getting his degree in electrical engineering at the University of Virginia, where he was initiated into Phi Chapter of Theta Tau, he served in the U.S. Navy during World War II. Afterwards, he returned to AT&T, working as an equipment attendant in Hartford. He then went through a number of assignments in different departments and at different locations with the Long Lines Department. In 1963, he joined Illinois Bell and later became President in 1969. He became the Chief Financial Officer of AT&T, located in the New York office, from 1974 to 1979. After a short time as President and Chief Operating Officer in 1979, he became Chairman of the Board of AT&T the same year.



John Morrow Daniels, Sr.
N '20

The late Brother John Morrow Daniels has been honored by Theta Tau for his contributions of time and service as a consistently devoted National Officer.

Brother Daniels showed leadership as an Executive Council member from 1931 to 1939, the last two years of which he served as Grand Regent. Delta Beta Chapter was installed during his tenure. From 1949 to 1958 he served continuously as Grand Marshal.

After graduating from the University of Pittsburgh with a Bachelor's degree in Civil Engineering, he began his teaching career in 1922 at Carnegie Tech where he was initiated as an honorary member of Nu Chapter. At Carnegie, he established his long career in the field of education. He started in 1932 as an instructor in the Civil Engineering Department. After handling the responsibilities as Chairman of Admissions and Assistant Professor, he became Dean of Students in 1944.

Brother Daniels was affiliated with many professional and civic activities including the American Society for Engineering Education. He served on the National Board of College Entrance Examinations and was elected Secretary-Treasurer and President of the Middle States Association of College Registrars. He was also a member of the local Masons, Coudersport Consistory and Board of Trustees of the Kiskiminetas Elementary School.



Curtis Emerson LeMay
Σ '32

The late General Curtis E. LeMay was nominated by fellow Brothers at Sigma Chapter at The Ohio State University. He is honored for his military career and accomplishments which have paralleled the history of the United States Air Force.

Curtis LeMay entered college at Ohio State University in the fall of 1924 and became a member of Sigma Chapter in February of 1926. Throughout his enrollment at Ohio State, he was a member of the Army R.O.T.C. He was listed as an Honors Graduate when he received his Bachelor's degree in Civil Engineering.

After graduation, LeMay joined the National Guard, where he became an Air Cadet and subsequently earned his wings with the Army. He spent some time as a fighter pilot, but was then transferred to a bomber group, where he earned a reputation as an excellent navigator.

When World War II began, Brother LeMay became a Major, assigned to a Squadron of B-17's. He distinguished himself as a squadron leader quickly and acquired increasing responsibilities and rapid promotion as the war continued. He was later transferred to the Pacific, where he organized the B-29 bombing campaign against the Japanese islands. Towards the end of the war, LeMay became a Lieutenant General, in charge of the Twenty-First Bomber Command, whose bombing raids of critical Japanese industries were instrumental in crippling the Japanese war

Continued on page 11, column 3.



Robert L. Miller, O'41



C. Maxwell Stanley, O'26

Nominated by Omicron Chapter, Brother Miller was inducted into the Hall of Fame and was the featured speaker at the National Convention Awards Banquet in Iowa City last summer.

Brother Miller has had an exemplary career in industry and is a tribute to the fraternity. He is the Founder and President of Northern Ohio Engineering Company of Barberton, Ohio, and of Prime Plastics, Inc. of Clinton, Ohio. Brother Miller began in the plastics industry 40 years ago as one of the pioneers. Prime Plastics is now a worldwide leader in applications requiring fabrication with plastic material.

Northern Ohio Engineering Company provides consulting and technical support in the plastic materials industry, tackling projects such as the installation of plastic extruding operations and building operational facility prototypes.

Brother Miller has been a contributor to development in the plastics industry. He has authored various articles and course materials on extrusion and corrugation techniques.

In addition to his contributions to industry, he is affiliated with many technical societies related to the field. He is a founding member of the Corrugated Plastic Tubing Association and is a member of the Society of Plastic Engineers.

Brother Miller's contributions to the educational community are considerable. He helped found the Department of Chemical Engineering at the University of Akron.

Civic commitments include membership on the Board of St. Thomas Hospital, the Planning Committee of the Junior Chamber of Commerce, Kiwanis International and United Fund.

Brother Miller and his wife Eleanor live in Norton, Ohio.

The late Brother C. Maxwell Stanley was nominated to the Hall of Fame by the brothers of Omicron Chapter. He is honored by Theta Tau for his distinguished career in industry.

Brother Stanley combined several careers: professional engineer, business executive, author, civic leader, and world citizen. He was founder and chairman of two companies, Stanley Consultants, Inc. and Hon Industries, Inc., one of the three largest U.S. manufacturers of office furniture.

Born in Corning, Iowa in 1904, he earned a B.S. in General Engineering in 1926 and an M.S. in Hydraulic Engineering in 1930 from the University of Iowa. He became a leader in his profession as a member of several engineering societies and also wrote *The Consulting Engineer*, a definitive book on the professional aspects of private consulting practice.

For his contributions to the profession, he has been the recipient of many awards and honors from various organizations. These include *Consulting Engineer Magazine's* American Consulting Engineers Council, honors by the Iowa Engineering Society and the National Society of Professional Engineers, and receipt of the Alfred Nobel Prize for outstanding technical papers.

Brother Stanley had been actively interested in foreign policy as it was related to world peace and world politics. He travelled widely, chaired many international conferences, and wrote and spoke extensively on subjects related to foreign policy. His book, *Waging Peace* examined U.S. foreign policy from the viewpoint of a businessman.

In memory of Brother Stanley, The Stanley Foundation was founded in Muscatine, Iowa. It is an organization devoted to world peace.

CURTIS E. LeMAY *Continued from pg. 6, col. 3*

effort.

After the war, LeMay took charge of the U.S. Air Forces in Europe. It was during this time that the Soviet Union blockaded all land routes to West Berlin, and LeMay became responsible for organizing the now famous Berlin Airlift, which brought needed supplies to the blockaded area.

In 1949, he was appointed head of Strategic Air Command. When he assumed command, SAC was a poorly organized unit, which would be incapable of fulfilling its purpose as a deterrent to nuclear war. Within a few years, LeMay had transformed it into an efficient, extremely formidable force, which is now our country's first line of defense against nuclear attack.

One of the many famous stories about General LeMay was that he once found a SAC sentry who had put down his weapon to eat a sandwich. "This afternoon, I found a man guarding a hangar with a ham sandwich," General LeMay's subsequent memo said. "There will be no more of that."

In 1957, General LeMay became Vice Chief of Staff for the Air Force, and was responsible for overseeing its day to day operations. In 1961, he was promoted to Four Star General, and made Air Force Chief of Staff.

Brother LeMay retired from the Air Force in 1965. He was George Wallace's running-mate in the 1968 Presidential election.

Brother LeMay devoted nearly forty years of his life to the service of his country, a worthy endeavor by any standards. He passed away on October 1, 1990 at the 22nd Strategic Hospital. Brother LeMay was 83.

In Memoriam

Continued from page 15.

Harold Lee Sangster, '37, 7/24/88

(Honorary Member)

William Kittredge Whittemore, '49

DELTA BETA

Robert Lee Comley, '48

Dominick Paul Mangino, '48, 11/29/88

Albert Sidney Phillips, Jr., '45

Kenneth Ray Whitehouse, '51

Arthur Craig Wicker, '48

ZETA BETA

Dean Freeman Peterson, '34

(Charter Member)

ETA BETA

Herbert Foster Kent, '43 (Honorary Member)

THETA BETA

Claude Samuel Pope, '64 (Charter Member)

KAPPA BETA

Robert Glen Tischer, '69



Engineering Alternative Fuels

The recent events in the Persian Gulf remind us how stable energy sources are critical for the economic security of our country. As we depend more on the imported energy resource petroleum, we can see the need for alternative energy sources, particularly sources readily available within our own borders.

It is stated that America's dependence on foreign oil, 40% of the U.S. petroleum consumption, is expected to increase to 50-60% by the year 2000. We know of the political, economic and military costs associated with this dependence, not to mention the enormous environmental costs. It is obvious that pursuing potential alternative energy sources is in the best interests of our nation, and our world.

These issues, as well as the viability of any particular alternative fuel industry, are of particular concern to engineers in the petroleum and alternative fuel industries, as well as engineering students planning on entering these fields.

This article will discuss the alternative fuel ethanol, shedding on light its production, economic and environmental effects, and its present state and future as a viable industry.

Ethanol is produced from the same technology and processes which are the basis for beverage production. The product is made either through a wet mill or dry mill process which utilize the same materials.

In the dry mill process, normal corn is ground and then slurried into a water bath. This slurry is then cooked, generating complex sugars and enzymes which react with the starches. The fermenting of these sugars with yeasts produces beer. This beer, consisting of alcohol, water and dissolved solids is then separated, and through a process of distillation and dehydration, anhydrous ethanol is produced.

In the alternative wet mill technology, corn undergoes a steeping process which involves soaking of kernels in water and sulfur dioxide. The resulting pure starch, which when separated from the kernels is then converted into sugars and then fer-

mented. After the distillation process, ethanol is produced. Wet mill technology has other economic advantages in that the by-products of the process are useful for industry, food and animal feed.

In terms of energy value, one gallon of ethanol contains two thirds the energy value of a gallon of gasoline. However, its octane rating is 30 times greater than that of regular unleaded gasoline. Therefore in the industry, ethanol is marketed as an octane booster. As a blending agent with gasoline, it naturally extends our nation's gasoline supplies in addition to the improved octane rating. A third advantage of ethanol as an additive is that it serves as a cosolvent of methanol in gasoline. Methanol blended alone with gasoline is not compatible for common motor fleets. The mixture of ethanol and methanol in

the burning of ethanol, namely carbon dioxide and water vapor, are processed naturally by plants and trees and therefore do not accumulate in the atmosphere.

Conversely, ethanol blended fuels produce ozone which actually presents a pollution problem during summer months. Since gasoline mixed with ethanol is more volatile, concentrations of ozone in the lower atmosphere do result. Therefore, environmentally speaking there are trade-offs concerning use of ethanol as an additive.

Currently, the sale of ethanol is exempted from federal motor fuels excise tax. For example, gasoline is taxed at 9 cents/gal. while ethanol is 3 cents/gal. This has a significant bearing on the ethanol industry's cost competitiveness as a fuel blending agent. Analysts state two other factors critical for the industry break even

point in combination with the excise tax exemption. Crude oil prices must be \$20.00 per barrel or higher, corn costs must be at \$2.00 per bushel, with half of this cost recovered through selling of by-products.

In effect there is a current federal subsidy of the ethanol industry. Without this, given the same conditions, crude oil prices would have to exceed \$40.00 a barrel for the industry to be overall cost competitive. Therefore,

extension of the tax exemption until the year 2000 is important for the continued growth of the industry.

Ethanol increases the volume of available gas reserves, but it cannot serve as a complete replacement to gasoline. Although it has a higher octane rating it also has lower energy content. Therefore, straight ethanol is not practical. It is not feasible on a mass scale due to the limited availability of resources for its production. If all U.S. corn were converted to ethanol it would supply only 3% of the nation's needs.

Currently, domestic ethanol production is roughly 800 million gallons per year. With the extension of the excise tax exemption, the industry could grow to as much as 1 to 2 billion gallons by 1995.



gasolines moderates the corrosive effects of methanol. Therefore, by enhancing the acceptance of methanol, the availability of motor fuels is increased.

Ethanol has the capability to improve environmental conditions. Ethanol use helps meet certain requirements for the environment set down in the Clean Air Act. Ethanol, blended at 10 percent with gasoline has proven to reduce vehicle carbon monoxide emissions. The burning of ethanol produces no soot which is an advantage for heavy transportation vehicles. There is no sulfur or nitrogen which are causes of acid rain.

The use of renewable resources such as ethanol also addresses the issue of global warming produced by the combustion of fossil fuels. The exhaust gases produced by



The growth of the ethanol industry would have implications for the farming and agricultural industries. A larger volume in ethanol production would mean greater demand for corn. With an eventual rise in market prices of corn and grains, relative farm income will increase modestly for the first few years followed by greater growth in subsequent years. The total increase in farm income with a 2 billion gallon ethanol industry could be as much as 1 billion in 1995.

The relatively new ethanol industry, which saw its birth in 1978, is ironically based on old technology developed from the long history of alcoholic beverage production. There are near and long term changes on the horizon in ethanol production technology which could lead to considerable gain in cost productivity.

Some improvements for more near term implementation are: (1) the use of *Zymomonas mobilis* bacteria in lieu of yeast for a faster rate of fermentation, (2) the technology of membrane separation of solubles. This advancement reduces the amount of energy required for boiling water out of the slurry in the waste water treatment phase, (3) In the wet mill process, there are more sophisticated means for improved control of the fermenting process and maximize the use of the fermenting agent.

With such improvements for greater cost effectiveness, it is likely that an ethanol producing facility 3 to 5 years from now will produce at 5 cents/gallon cheaper than plants with current technology.

For the longer term improvement in production, alternative sources in lieu of corn can be used. Future technology will allow the use of alternative feed stocks such as potatoes, sugar beets, sweet sorghum and grains. This could be beneficial, depending on the fluctuating market conditions of corn. Improvements in the realm of bioengineering and plant breeding technologies which increase agricultural yields will be beneficial to the ethanol industry.

The present day advantages of the ethanol industry are a pre-cursor to the potential in alternative fuels for the future.

It is estimated that every gallon of

ethanol produced generates roughly \$4 in economic activity. In the state of Iowa alone, ethanol production generates approximately \$270 million in economic activity. Iowa is the largest corn producer and the 2nd largest ethanol producer in America. Midwestern states like Iowa could see benefit from a

growing alternative fuels industry.

With a growing need for such industries, it is possible that the annual production rate of ethanol could be 10 billion gallons, requiring 4 billion bushels of corn. This would be roughly 9% of the total gasoline consumption.

The adaptation to ethanol based fuels is more prevalent now. In fact, ethanol is the dominant fuel in Brazil, where specially designed ethanol burning vehicles built by local Chrysler, Fiat, Ford, General Motors and Volkswagen plants make up 90% of the new fleet. This idea has generated interest in California and Iowa to convert much of these states' municipal motor fleet, i.e. urban transit buses, school buses, government cars and construction trucks, into ethanol-burning vehicles.

There are various arguments for and against the practicality of developing alternative biomass fuels for our nation's well being as well as that of the world. These aspects range from the environmental, economic, and political, as well as national security. One purpose of this article is to inform Brothers, friends and family of these considerations, and to stimulate thinking about options and of the potential (and necessity) for engineers' involvement in solutions.

This article contains information from *Ethanol: Economic and Policy Tradeoffs*, Agricultural Economic Report No. 585, Resources and Technology Division, Economic Research Service, U.S. Department of Agriculture, April, 1988.

An additional source was *The Outlook for Ethanol Fuels in Transportation — Can Iowa Play a Role?* by Ravindra Datta, Associate Professor, Department of Chemical and Biomedical Engineering, University of Iowa.

Additional thanks to Don Murray and the Iowa Department of Economic Development.

ALUMNI ORGANIZATIONS

Janice L. Witala, O '90
Alumni Program Director

Theta Tau Alumni Clubs and Alumni Associations are an excellent way for an individual alumnus to remain involved with the Fraternity. Similar to chapters in purpose, alumni organizations create a social atmosphere in which to develop the professional ideals of the Fraternity. Since Alumni Clubs and Associations are organized by geographic location, they give alumni the opportunity to participate in community activities, make friends in the area, develop business contacts and information resources, and gain a national sense of the Fraternity because members of all chapters are invited to participate in Alumni Club activities.

Additionally, alumni organizations can be a great asset to Theta Tau. They keep alumni involved in Fraternity activities. They improve the flow of information by keeping area alumni informed about Fraternity activities and by keeping the national Fraternity informed about local activities and alumni achievements. Alumni organizations can welcome members new to the area. In the past, alumni organizations have supported extension activities, planned picnics and other social events, and provided student members with a link to the professional world through speakers, plant tours, etc. There is a multitude of possibilities.

The first Theta Tau Alumni Association was founded in 1908. Since then alumni organizations have existed in many locations. The Central Office or the Alumni Program Director can provide assistance in locating an alumni organization in your area. If there isn't one near you, you could participate in Alumni Club 'extension' by helping to start one in your area. This would be a great service to the Fraternity.

Only four members are needed to start an Alumni Club! An application for authorization for an Alumni Club must contain the proposed date and place for at least one meeting each year. The Grand Regent has the authority to issue a letter of authorization for an Alumni Club. The Alumni Program Director or the Central Office can provide additional information and assistance, including addresses of Theta Tau alumni near you.

Remember that membership in Theta Tau is for life; involvement should not end with graduation. Just as initiation is not so much an end to pledging as it is a beginning of membership, graduation should not be thought of as an end to student membership, but as the beginning of a lifetime of brotherhood.



Alumni News and Profiles

Please send us any news of accomplishments, job changes, current activities, publications, etc.

CHICAGOLAND ALUMNI ASSOCIATION

The Chicagoland Theta Tau Alumni Association is still meeting bi-monthly on the second Tuesday of each month. Brother **Frederick L. Hanson**, Σ '42, has been keeping the organization active and keeping the national Fraternity informed on its latest activities.

A group of local Brothers met at the Venture Restaurant in Forest Park, Illinois, on January 8, 1991. The Association invited Dr. Eileen Nelsen, who heads up the Literacy Program in Chicago and suburbs, as guest speaker. In March, the group met at the Fortune Chinese Restaurant in Napierville. **James E. Stevens**, Ω '40, showed slides taken when he was employed by Chicago Bridge & Iron after World War II in the Near East.

The Association is maintaining the \$10 annual dues. The dedicated officers have been covering many of the miscellaneous expenses. The group tour was well attended, and included 5 brothers from Xi Chapter who travelled from Madison, Wisconsin.

President Hanson hopes to increase the local membership. They are presently trying to bring up to date the roster of addresses and phone numbers of local alumni. Their goal is to also trade newsletters with other regional alumni groups such as the Detroit or Midwest Alumni Associations.

Any Theta Tau Brother can contact the Chicagoland Alumni Association at:
443 Heman Avenue
Park Forest, Illinois 60466

EPSILON

Robert M. Brown, '37, is enjoying his retirement and recently wrote to Executive Director Robert Pope. His interests in growing irises and magical arts keep him busy in Kensington, PA.

ZETA

James W. Orton, '17, joined other brothers on the occasion of Omicron Beta Chapter's installation in Dearborn, MI. Brother Orton may be the oldest living member of Theta Tau at age 98.

THETA

Arthur F. Myers, '39, celebrated his 50th wedding anniversary with wife "Cappy" on March 30, 1991. Present at the occasion were friends including **John F. Crymble**, Θ '39. Brother Crymble enjoyed a luncheon reunion with **Robert L. Taylor**, Θ '40, in March at Naples, Florida.

MU

William K. Rey, '45, past Grand Regent, has been honored by the Capstone Engineering Society for his years of dedication to the Society. The CES Board of Directors presented the tribute to both

major changes have occurred in the College of Engineering and the University at large due to his leadership. Rey is credited with developing the University's core curriculum plan and telephone registration."

"He was also the driving force behind the tough standards for the College of Engineering and sees that these standards are applied fairly throughout the College."

"Rey spent years seeking private funds to support engineering education for minority students and founded the Southeastern Consortium for Minorities in Engineering. He was also instrumental in the establishment of UA's Minority Engineering Program, which strives to attract



William K. Rey, M '45 (left), receiving the Algernon Sidney Sullivan Award from Dr. Roger Sayers, President of The University of Alabama, April '91.

him and his wife, Ruth, on May 9, 1990. Brother Rey had been Executive Director of the CES for 18 years since the organization was formed in 1972. Professor Rey is Assistant Dean of the College of Engineering at the University of Alabama.

Brother Rey also received the Algernon Sidney Sullivan Award from the University of Alabama recognizing his contributions to the University through scholarship and leadership. The award was presented at the University President's Luncheon on April 11, 1991.

Brother Rey's service to the University has made him an icon of the community. According to the *Tuscaloosa News*, "In Rey's more than 50 years at the Capstone,

and retain black students in the College of Engineering."

T. Louis Austin, Jr., M '42, is now National Chairman of the Capstone Engineering Society at the University of Alabama.

OMICRON

Marie Lynn Mize Dotseth, '87, was married on August 11, 1990, and is returning to the University of Minnesota to get her master's degree in Hospital Administration.

Continued on page 20, column 1.

In Memoriam

Continued from page 20.

UPSILON

John A. Ashworth, '93
B. Frank Beckman, '33
Robert Max Brooks, '29
Hugh B. Carruth, '29, 11/20/91
George Richard Carson, '49
Billy Hugh Cunningham, '56
Alexander Augustus Duffey, '32
Charles Vernon Eld, '40, 10/26/89
Warren Gardner Furry, Jr., '31
James W. Green, Jr., '27 (Honorary Member)

New Initiates

Continued from page 17

CHI BETA

Charter Members:

2 Philip Robert Hulbert, '91, Defiance, OH
3 Bradley Thomas Reineck, '91, Fremont, OH
5 Christopher Edward Schadeewald, '91, Petersburg, MI

6 Kathleen Marie Lavelle, '91, Cleveland, OH
7 Jeffrey Pando Pappas, '90, Oregon, OH
8 Robert Christian Smith, '92, Findlay, OH
9 Philip Samuel Thomas, '93, Toledo, OH
10 Jeffrey Michael Westrick, '92, Defiance, OH
11 Gregory Allen Ormer, '91, Toledo, OH
12 David Gregory Ferenick, '93, North Olmsted, OH
13 Jerold Carl Higbee, '92, Defiance, OH
14 Thomas Joseph Tamulewicz, '92, Hinkley, OH
15 John Scott Cole, '91, Arlington, OH
16 Jeffrey Thomas Yoder, '92, Defiance, OH
17 Lorinda Louise Hancock, '93, Defiance, OH
18 Chad Clinton Alstaeffer, '93, McComb, OH
19 Brandon Jerald Knoll, '93, Defiance, OH
20 Andrew Thomas Jenkins, '92, Maumee, OH
21 Kevin William Fahy, '93, Findlay, OH
22 Ryan Matthew Switzer, '93, Findlay, OH
23 Raymond Charles Maers, Jr., '92, Toledo, OH

Other Initiates:

24 Steven Christopher Romph, '94, Brunswick, OH
25 Andrew Ryan Baker, '93, Norwalk, OH
26 Bradley Taylor Schellhase, '94, Uniontown, OH
27 Christina Marie Kremer, '94, Versailles, OH
29 Mohammed Zahid Iqbal, '92, Lahore, Pakistan
30 Jeffrey John Lovelace, '94, Westerville, OH
31 Stephen Michael Fitch, '94, Defiance, OH

PSI BETA

Charter Members:

1 Brenda Jean Berry, '91, Keller, TX
2 Delbert Roel Cantu, '92, Fairlairs, TX
3 Brian Keith Dieringer, '93, Manor, TX
4 Randall Scott Harris, '91, Buda, TX
5 Robert Joseph Kallenbacher, '91, Humble, TX
6 Richard Su-Cheng Lai, '92, Mililani, HI
7 Erika Cheryl Muller, '91, Houston, TX
8 Michael Jesse Gurney, '92, Alice, TX
9 Steven Michael Tait, '91, Dallas, TX
10 Daniel Mark Thompson, '92, Austin, TX
11 David Harold Zuhke, '92, Corpus Christi, TX
12 Jordan Raquel Bulaciak, '91, Houston, TX
13 Robin Daniel Dormisse, '92, Volkenburg, Netherlands

14 James Todd Hester, '91, Celeste, TX
15 Christopher Young Quatro, '93, Sugarland, TX
16 Michelle Dawn Winslow, '92, San Antonio, TX
17 Brian Walter Crowe, '93, Richmond, TX
20 Michael Anthony Gonzales, '92, San Antonio, TX
21 Brian Charles Hoskins, '92, Round Rock, TX
22 Jeremy Wayne Segers, '92, Saginaw, TX
23 Christopher Stephen Stacy, '92, Evanston, WY
24 Jessica V. Salinas, '93, Alice, TX
25 James Earl Wilson, '92, Jacksonville, FL

Other Initiates:

28 Jeffrey Scott Gordon, '93, Duncanville, TX
30 Hedwig Amanda Huett, '94, Humble, TX
32 Albert Eugene Kellner, '93, San Antonio, TX
34 Jennifer Leigh Stomberg, '93, Austin, TX

James Bruner Gregory, '51
Charles Wayne Hogan, II, '40
Joseph W. Holley, '45
Thomas L. Huckaby, '28 (Charter Member)
Eugene Hailey Manley, '39
John L. McManus, '30
James Hugh Nelson, '32, 6/22/91
Henry Newland Oldham, '30
Jim Ritchie Stephens, '29
Wayne Neal Williams, '52

PHI

Clarence Fred Becker, '42
William Robert Benner, '30, 3/23/91
(Charter Member)
Eugene William Christen, '48
John Joseph Dee, '41 (formerly Dudzinski)
Marion Hoffman Kapps, '29, 8/15/90
Andrew William Rankin, '34
Kenneth Weir Swaim, '33

CHI

Arthur H. Hammond, Jr., '58
Robert Gaylor Morrison, Jr., '37

Carter Eugene Nelms, '44
Charles Forbes Stanley, '49
Ronald A. White, '53
George Frederick Zerfoss, '40, 12/16/90

PSI

Carol J. Ward, '40, 12/27/90

OMEGA

Willard John Barkley, '51, 4/88
William Asa Kingsbury, '39
Carney Ray Soderberg, '43, 7/6/89

GAMMA BETA

Benjamin E. Anderson, '52, 10/19/85
Rexford George Booth, Sr., '58
Benjamin Carpenter Cruickshanks, '20, 4/8/91
(Honorary Member)
Henry Paul Fleming, Jr., '64
Warren Leigh Lawton, '34
George Manford Lohnes, '39, 11/20/90
William H. Penn, '41, 8/24/88

Continued on page 11.

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New Initiates

ALPHA

962 Mathew John James, '92, Elk River, MN
983 Donald Raymond Kison, '91, Janesville, WI
984 Neil Richard Van Epps, '92, St. James, MN
985 Steven Wynn Coy, '93, New Richmond, MN
986 Gregory Ambrose Ramola, '93, Chicago City, MN
987 Stuart Michael Roell, '93, Cedarburg, WI
988 Richard Deven Snell, '93, Manistota, MI
989 Troy Christopher Amten, '94, Excelsior, MN
990 William Joseph Bettin, '91, Rochester, MN
991 Jason Stewart Michael, '94, Excelsior, MN
992 Kevin Peter Roddy, '92, Virginia, MN
993 Cory Peter Gunderson, '92, Deer River, MN
994 Shane Todd Jameson, '94, Cambria, WI
995 Dean Howard Kittelson, '94, Moorhead, MN

BETA

1228 Richard Joseph Mayer, '90, Dafter, MI
1229 Andrew Douglas Oliver, '91, Livonia, MI
1230 Danny Paul Manginen, '91, Neagunne, MI
1231 Michael Chester Warpehosi, '90, Hatley, WI
1232 Alan Steve Whitford, '90, Ispeping, MI
1233 Jeffery L. Scharrat, '90, Ulica, MI
1234 Timothy Scott Day, '91, Livonia, MI
1235 John Frederick Tegonig, '92, Ispeping, MI
1236 Robert Thomas VanDenheuvel, '91, Green Bay, WI
1237 Scott Riley Shellenbarger, '91, Indian River, MI
1238 Steven Raymond Miller, '91, Kentwood, MI
1239 Daniel Nathan Hassert, '92, Belding, MI

ZETA

679 Paul Robert Bures, '89, Richmond, KS
680 William D. Gooch, '92, Russell, KS
681 Russel Alan Pope, '90, Overland Park, KS
682 Robert Brian Reid, '91, Topeka, KS
683 Richard William Wiley, '94, Lawrence, KS
688 Loren Ray Kallenbach, '92, Bartlesville, OK
889 Daniel Wade Krug, '92, Russell, KS
890 Kevin Neal Rains, '92, Overland Park, KS
891 Robert Craig Warner, '93, Wichita, KS
895 Jeff Jerald Pacha, '93, Brighton, IA
896 Howard Joseph Sacks, '93, Kansas City, MO

MU

1247 John Timothy Haskew, '92, Columbiana, AL
1248 Amy Lee Lewis, '93, Hartselle, AL
1249 William Mackey Watts, '92, Alexander City, AL
1250 Gregory John Dackson, '93, Deerfield Beach, FL
1251 Robert William Hirst, '94, Sulphur, LA
1252 Valencia Andrea Belle, '93, Mobile, AL
1253 Paul Carl Zellner, '92, Saint Petersburg, FL
1254 John William Sawyer, '93, Monroeville, AL
1255 Timothy Lee Wats, '93, Anniston, AL

XI

554 Marcille Faye Zietlow, '94, Berlin, WI
545 Cynthia Nicole Chang-Yi, '94, Moorhead, MN
546 Shann Normen Dillow, '93, Cary, IL
547 Laura Jean Haas, '91, Appleton, WI
548 Cindy Lee Hirst, '92, Blue Mounds, WI
549 John Thomas Monnett, '91, 94, Oshkosh, WI
550 Jeffrey Bernard Thompson, '95, Mequon, WI
555 Michael Alyn Lee, '92, Yankton, SD
556 Brandon Lee Potts, '93, West Bend, WI
557 Wei-Hung Yip, '94, Kowloon, Hong Kong

OMICRON

1102 Marca Dawn Andrie, '93, Ely, IA
1103 Steven Lee Augustine, '94, Deerpark, IA
1104 Kenneth Lee Blaauw, '92, Frankfort, IL
1105 Kay Ellen Bredesky, '94, Des Moines, IA
1106 Jesus Andres Chavez, '93, Hattiesburg, IA

1107 John Jay Gickler, '92, Clinton, IA
1108 Troy Jeff Hagen, '92, Waterville, IA
1109 Matthew Earl Harvey, '87, Detroit, MI
1110 Jay Ming Kao, '92, Bettendorf, IA
1111 Blair Waid McLaughlin, '92, Dysart, IA
1112 Jennifer Andrea Price, '92, Palatine, IL
1113 Greta Sue Polteter, '93, Burlington, IA
1114 Andrew James Rasey, '92, Aurora, IL
1115 David Stephen Schultz, '93, Des Moines, IA
1116 Thoralf Kent Symmer, '93, Iowa City, IA
1117 James Edgar Williams, '94, Shenandoah, IA
1118 Jane Ann Zimmerman, '93, Waterloo, IA
1119 Angela Lynn Zahradnik, '93, Cedar Rapids, IA

PI

912 Robert William Boothe, '92, Richmond, VA
913 Kristina Marie Creden, '93, Hudson, NH
914 Catherine Ann Danks, '93, Williamsburg, VA
915 Christopher Lynn Larson, '91, Whitehouse Station, NJ
916 Mohamed Rozani Mohamedosman, '93, Tarnan Midgh, Malaysia
917 Amy Joan Russell, '93, Fredericksburg, VA
918 Derek Frank Schuler, '93, Fairfax Station, VA

RHO

1002 Bruce Richard Baldwin, '93, Clinton, NC
1003 Robin Farrar Barrett, Jr., '92, Raleigh, NC
1004 David Ray Hartley, '92, Holly Springs, NC
1005 Anthony Henry Kuntz, '94, Concord, NC
1006 Kenneth William Norton, '91, Norfolk, VA
1007 Martin Lynn Tanaka, '92, Fargo, ND
1008 James Edward Bader, '94, Apex, NC
1009 Glenn Thomas Freeman, '93, Denton, NC
1010 Scott Michael Graham, '92, Raleigh, NC
1011 Gerald Clyde Lambert, '92, Asheboro, NC
1012 Curtis Cornelius Osborne, '92, Monroe, NC
1013 James Siedman Rhew, '91, Raleigh, NC
1014 George Blackburn Woodring, '92, Greensboro, NC
1015 Andrew Vincent Akers, '95, Salisbury, NC

SIGMA

788 Ronald Stephen Kundia, Jr., '94, Hudson, OH
789 Sean Craig Riga, '93, New Albany, OH

UPSILON

978 Eugene Elmer Dotson, '95, Birmingham, AL
979 Kenneth Christian Barmwell, '92, Van Buren, AR

PHI

695 Andrew Raymond DeKeyser, '93, Muncie, IN
696 Robert D. Higbie, '93, Greenwood, IN
697 Kevin Walter Kelley, '92, Brookston, IN
698 Scott Wayne Lank, '92, Brookston, IN
699 Matthew Norman Mosseson, '90, Shorewood, WI
700 Michael Edward Pietrasak, '92, Munster, IN
701 Robert Michael Poethien, '92, Logansport, IN
702 Carroll Edward Raymer, '92, Charlestown, IN
703 Benjamin Earl Ross, '92, Philadelphia, PA
704 Joseph William Sumpter, '93, Fort Wayne, IN
705 Thomas Andrew Thrasher, '92, Indianapolis, IN
706 Paul Richard Wells, '92, Elkhart, IN
707 Peter John Zarras, '92, Carmel, IN
708 Sean Patrick Conboy, '93, Granger, IN
709 Neal Charles Gallagher, Jr., '71, West Lafayette, IN
710 William James Usab, Jr., '78, West Lafayette, IN
711 Damon Anthony DeSantis, '94, Butler, PA
712 Matthew David Dougherty, '93, Valparaiso, IN
713 Stephen David Ebert, '94, Ashland, OH
714 Jonathan Forrest Hester, '93, Springfield, IL
715 William Alex Itzenhauer, '93, Racine, WI
716 Trent Kuang Chun Li, '93, Lebanon, IN
717 Hans Martin Meyer, '93, Bloomington, IN
718 Neil Evan Oswalt, '93, Waukegan, IN

719 Lyle Kent Oxley, '94, Stendal, IN
720 Keith Edward Packard, '93, Matthews, IN
721 Anthony John Pennisi, '94, Hamilton, OH
722 Torino Ray Pitts, '93, Milwaukee, WI
723 Eric James Rainbolt, '93, Evergreen Park, IL
724 Brian Thomas Ross, '93, Stormville, NY
725 Greg Arthur Wood, '93, Gosport, IN
726 Jeffrey Joseph DeBano, '93, Beaver Creek, OH
727 Chris Richard Gheyson, '94, Chicago, IL

CHI

1018 Cheehoi Chua, '91, Ipo, Malaysia
1019 Kyle Andrew Clark, '92, Aurora, CO
1020 Teresa Denise Dereniak, '93, Boulder, CO
1021 Ryan Christian Fisher, '93, Denver, CO
1022 Katherine Elizabeth Godwin, '93, Columbus, OH
1023 Lynn Marie Johnson, '92, Kalamazoo, MI
1024 Aaron Thomas Jones, '93, Tucson, AZ
1025 Wei-Bheng Luo, '91, Ipo, Malaysia
1026 Christine Miller, '92, Germany
1027 David Harold Morden, '93, Farmington Hills, MI
1028 Benjamin Andrew Nygaard, '93, Scottsdale, AZ
1029 Lorann Jane Polak, '93, Scottsdale, AZ
1030 Lawrence Thomas Roshak, '93, Warner Robins, GA
1031 Laura Elaine Schlichting, '92, Chicago, IL
1032 Fadi Michel Toutoung, '92, Damascus, Syria
1033 Michelle Lynn Turley, '92, El Paso, TX
1034 Nichel Armea Bejarano, '93, Tucson, AZ
1035 Herb Anthony Conter, '92, Honolulu, HI
1036 Jeffrey Charles Gientzer, '93, Denver, CO
1037 Wei Hoi Jan, '91, Hong Kong
1038 Maureen Johns, '93, Philadelphia, PA
1039 George Antonio Martinez, '91, Santiago, Chile
1040 Candace Marie Mortallo, '93, Tucson, AZ
1041 Mary Regina Rougout, '93, Tucson, AZ
1042 Richard John Ryan, '93, Phoenix, AZ
1043 William Anthony Safteh, '93, Phoenix, AZ
1044 Gregory James Strimbu, '93, Fort Belvoir, VA
1045 Jon David Cruz, '94, Tucson, AZ
1046 Jill Christine Jena, '93, Sierra Vista, AZ
1047 Sany Vibhoka Komur, '94, Tucson, AZ
1048 Shan Byron Lovelace, '93, Sierra Vista, AZ
1049 William David Lyle, '92, Tucson, AZ
1050 Kathleen Suzanne Scuggs, '93, Loveland, CO
1051 Janeth Lynn Spears, '94, Largo, FL
1052 Andrew William Tofel, '93, Tucson, AZ
1053 Ken Willard York, '93, University Heights, OH

OMEGA

998 Randall Steven Ames, '92, Virgil, SD
999 Robert Bryant, '94, Wilson, NC
1000 Jamey Lee Iedema, '92, Platte, SD
1001 Mark Harris Ingalls, '92, Lake Andes, SD
1002 Scott David Loeschke, '92, Chambers, NE
1003 Jon DeBert Loe, '93, Aberdeen, SD
1004 Robert Lynn McClure, '93, Hays, SD
1005 Tracy Sean Parris, '92, Rapid City, SD
1006 Jason Edward Smith, '93, Hoven, SD
1007 Michael John Steichen, '92, White Lake, SD
1008 Eric Albert Thompson, '93, Avon, SD
1009 Randall Dean Van Genderen, '93, Platte, SD
1010 Shand Michael Veunink, '93, Mitchell, SD

GAMMA BETA

559 Susan Mary Roman, '89, Vienna, VA
(Charter Member)
590 Kelly Jean Boas, '93, Coral Springs, FL
591 Jene Kristian Johnson, '91, Surrey, England
592 Michael David Livingston, '91, Syosset, NY
593 Jeffrey Michael Schott, '92, West Milford, NJ
594 Derek Garth Chan, '94, Great Neck, NY
595 Matthew Clark Donohue, '94, Triffin, OH
596 Kenneth Kyrngood Han, '94, Wheaton, MD
597 Samantha Nn Lubkin, '94, Owings, MD
598 Antonio Macedo Martins, '92, Seagrington, NY
599 Eric Steven Wiegble, '94, Manchester, ME
600 Stephen Richard Wilson, '94, Clinton, MD

EPSILON BETA

360 Frank Dave Bandrante, '92, Taylor, MI
361 Mark Joseph Busalino, '91, Troy, MI
362 Jeffrey Daniel Strone, '92, Troy, MI
363 Timothy John Thomas, '92, Grand Rapids, MI
367 Steven Thomas Pochmarna, '92, Detroit, MI
368 Bryan Kay Kenzie, '92, Grosse Pointe, MI
369 David Albert Majcher, '92, Canton, MI
370 Edward Allen Peroy, '92, Detroit, MI
371 Michael William O'Connor, '94, Dearborn Heights, MI
372 Bassam Saad, '91, Southfield, MI
373 David Adam Schlott, '93, Farmington Hills, MI
374 James Patrick Dunne, '93, Detroit, MI

KAPPA BETA

455 Sharon Lee Broome, '93, Clinton, MS
456 John Thomas Ellis, '92, Starkville, MS
457 Charles Stuart Everett, '94, Jackson, MS
458 Kristy Delana Guin, '93, Birmingham, AL
459 Chad Alan Henderson, '94, Starkville, MS
460 Sean Christopher Howard, '93, Ithaca, NY
461 Stephen Edward Johnson, '94, Horn Lake, MS
462 Jeffrey Alan Koch, '93, Greenville, TX
463 John Mike Nosker, '94, Vicksburg, MS
464 Rebecca Ann Pokrkeff, '94, Vicksburg, MS
465 Michael Joseph Smith, '95, Lexington, SC
466 John Byron Whitmore, '93, Jackson, MS

LAMBDA BETA

254 David Edward Beatty, '91, Jamestown, TN
255 Gary Lee Hankins, '91, Crossville, TN
256 James Norris Anderson, Jr., '92, Tullahoma, TN
257 Jeffrey Alan Henderson, '93, Talbot, TN

NU BETA

208 John Howard Engd, '92, Bridgewater, CT
209 Michael David Hansing, '92, Janesville, WI
210 Tait M Johnson, '93, Salem, WI
211 Darrin K Ott, '92, Janesville, WI
212 Vance Patrick Powers, '93, Platteville, WI
213 Steven James Roehl, '93, Avon, WI
214 Michelle Janice Schleusener, '91, Tonaw, WI
215 Gregory P Sutton, '92, Eastman, WI
216 Michael Bohlmann, '93, New London, WI
217 Ellen Jean Dawidowich, '94, Two Rivers, WI
218 Nicholas John Hoffman, '94, Appleton, WI
219 Steve Richard Meyer, '92, Platteville, WI
220 Barbara Jean Pechowski, '92, Fond du Lac, WI
221 Kimberly Marie Tappe, '92, Potosi, WI
222 Joel Damon Wagner, '94, Eau Claire, WI
223 Deborah Lynn Walker, '92, Janesville, WI
224 Gregory Gerald Whitney, '91, Yorkville, IL
225 Cynthia Marie Wisco, '95, Mineral Point, WI
226 Paul Woodrow Garner, '92, Plymouth, WI
227 Robert Joseph Kleinschmidt, '93, Green Bay, WI
228 Michael Paul Lupton, '93, West Bend, WI
229 Robert Gary Preston, '95, Platteville, WI
230 David Alan Snyder, '92, Elkhorn, WI
231 Martin Joseph Van Krey, '92, Appleton, WI
232 Alan Joseph Verhagen, '92, Kaukauna, WI

XI BETA

28 Keith Leonard Domagala, '88, Farmington Hills, MI
39 Mark Steven Bailey, '89, Farmington Hills, MI
40 Jeffrey Michael Carter, '89, East Detroit, MI
41 Gary Jon Halligan, '89, New Baltimore, MI
42 Jeffrey John Rooden, '90, Warren, MI
46 Timothy Allen Krause, '92, Warren, MI
47 Franz Pilgast Samson, '91, Novi, MI
48 John Russell Crampton, '93, Utica, MI
49 Michael Anthony Carlesimo, '92, Utica, MI
50 Joseph Edward Jablonski, '93, Novi, MI
51 Adrian Oglesby, '91, Sterling Heights, MI
52 Thomas John Olszewski, '93, Novi, MI
53 Richard Anthony Vitell, '91, Southgate, MI
55 Scott William Christensen, '94, Davison, MI
56 Brian Kirk Passerman, '94, Farmington, MI
57 John Michale Siragusa, '94, Hamtramck, MI
58 Chadde Richard Stevens, '94, Saginaw, MI
59 Justin Garrick Wiseman, '94, Lincoln Park, MI

OMICRON BETA

65 Mark William Balazy, '94, Dearborn, MI
66 David Louis Balazy, '91, Dearborn, MI
67 Scott Louis Miller, '92, Westland, MI
68 Christopher Nathan Duhl, '94, Dearborn Heights, MI
69 Shyam Emmadi, '94, Bloomfield Hills, MI
70 Timothy Wendell Kosinski, '93, Westland, MI
71 Kevin James McLaughlin, '93, Detroit, MI
72 Eric Scott Messer, '93, Canton, MI
73 Keith John Michael Perrine, '94, Garden City, MI
74 Robert Lee Williams, '93, Westland, MI

PI BETA

49 Richard James Clark, II, '93, Livonia, MI
50 Thomas John Glowacki, '93, Saint Johns, MI
51 John Bulinger Moran, '92, Jackson, MI
52 Ted Anthony Pington, '93, Brighton, MI
53 Richard Scott Pontisso, '93, Mount Morris, MI
54 Jason Paul Whitman, '92, Bay City, MI

RHO BETA

38 Jeffrey Carl Dill, Hon. '79, Athens, OH
39 Edwin Joseph Block, '94, Strongsville, OH
40 David Jameson Carper, '92, Hartsville, OH
41 Richard Noel Ekstadt, '93, Loud, OH
42 Steven James Hill, '94, Hanoverton, OH
43 Robert John Roby, '95, Napoleon, OH
44 Eric Richard Schenk, '92, Woodsfield, OH
45 Ryan Alan Zolickoff, '93, Laguna Hills, CA
46 James Lee DeSanto, '93, Ashland, OH
47 Jason Louis McCauley, '93, Cuyahoga Falls, OH

SIGMA BETA

Charter Members:
2 John Anthony Krueger, '91, Brookfield, WI
11 Robert Kenneth Eqtiz, '91, Milwaukee, WI

Other Initiates:
31 Todd Donald Becker, '93, West Bend, WI
32 Angela Jean Strunsee, '91, Milwaukee, WI
33 Neal Richard Fobair, '93, Milwaukee, WI
34 Anh-Hao Dinh Hong, '88, Milwaukee, WI
35 Thomas Arthur Hoffmann, '92, West Bend, WI
36 Jill Christine Janssen, '92, Waupaca, WI
37 James Alan Jagers, '93, New Berlin, WI
38 John Frank Kuchler, '91, Greenfield, WI
39 Michael John Maxwell, '93, Brookfield, WI
40 Jack Clarence Beauty, '93, Saint Francis, WI
41 Eric Stephen Becker, '95, Zionsville, IN
42 Ann Loreen Lesniak, '95, Milwaukee, WI
43 Julie Mae Meyer, '92, Plymouth, WI
44 Kim Sue Siebert, '94, Green Bay, WI

TAU BETA

Charter Members:
1 Steven Andrew Bresnahan, '90, Denton, TX
2 Gaylia Ann Gray, '91, Little Rock, AR
3 James Gerald Archuleta, Jr., '90, Englewood, CO
4 Banga Balisekaran, '90, Dallas, TX
5 Ronald Louis Glover, '90, Alvarado, TX
6 Scott Henry Griesser, '90, Euless, TX
7 Debra Lynn Kading, '91, Lenexa, KS
8 Kousik Krishnan, '90, Arlington, TX
9 Charlie Wen-Ruey Kuo, '91, Amman, Jordan
10 Nancy Susan Loefer, '90, Tulsa, OK
11 Tung Thanh Nguyen, '90, Dallas, TX
12 Allen Joseph Pitts, Jr., '91, Dallas, TX
13 Benjamin Salvador Quindoo, Jr., '91, Jacksonville, FL
14 David Leonard Sanchez, '90, Albuquerque, NM
15 Theresa Evangelina Smith, '95, Dallas, TX
16 Erik Jackson Sinsler, '90, El Paso, TX
17 Francisco Plutarco Vargas, '91, Garland, TX
18 Mary Regan Veasey, '91, Dallas, TX
19 Kris Alan Wells, '90, Euless, TX
20 James Earl Woods, II, '90, Dallas, TX

Other Initiates:
21 James John Doublesin, Jr., '92, Oradell, NJ
22 Robert Michael Bender, Jr., '92, Milwaukee, WI
23 Thomas Lohar Reek, '92, Tucson, AZ
24 Douglas Scott Sedwick, '92, Philadelphia, PA
25 Anthony Tate Askew, '92, Atlanta, GA
26 Martha Marie Kurz, '92, Scottsdale, AZ
27 Lorena Cecile Sanchez, '93, Santa Monica, CA
28 Elisabeth Anne Marley, '94, Cincinnati, OH

29 Melissa Holly Miller, '92, Dallas, TX
30 Khung Luong, '91, Viet Nam
31 Kersapp D Shekhar, '92, Karachi, Pakistan
32 David Kevin Martin, '92, Decatur, GA
33 Michelle G. Everett, '91, Sioux City, IA
34 Jennifer Lynn Blocker, '92, Chicago, IL
35 Andrew Irving Arroyo, '93, San Antonio, TX
36 Scott Christopher Fulmer, '92, Hot Springs, AR
37 Tracy Alane White, '93, Houston, TX

Alumni Initiates:

8 E. Douglas Harris, Van Aistyne, TX
39 John Darold Providence, Balesville, AR

UPSILON BETA

Charter Members:

1 Richard Edward Jenkins, '90, Newport News, VA
3 Peter James Reynolds, '91, Lisbon Falls, ME
4 Mike Post, '89, Virginia Beach, VA
5 Michael Thomas Brown, '92, New Kent, VA
6 Kyle Robert Kennedy, '91, Chapel Hill, NC
7 Otto Jon Smith, '91, Virginia Beach, VA
8 Leslie Danielle Rice, '91, Roanoke, VA
9 Robert Nathaniel Lowery, '90, Charlottesville, VA
10 Jeffrey Scott Stevens, '90, Alexandria, VA
11 Thomas Joseph Schwind, '91, Fairfax, VA
12 Stuart Evan Shelby, '91, Stafford, VA
13 Christopher Robert Jones, '93, Hampton, VA
15 Andrew Stone Austin, '89, Virginia Beach, VA

Other Initiates:

16 Samuel Rodman Apperson, '93, Virginia Beach, VA
17 Scott Allen Carpenter, '92, Omaha, NE
18 David Wilson Clark, '91, Poquoson, VA
19 Elizabeth Ann Clarkson, '93, Orlando, FL
20 James Vincent Gurin, '90, Norfolk, VA
21 Stephen Paul David, Jr., '94, King George, VA
22 Tammy Renee Dudley, '94, Richmond, VA
24 Joseph Scott Christman, '92, Poppon, VA
26 David Bentley Wirth, '93, Virginia Beach, VA
27 Lester Lee Wright, III, '92, Bowie, MD
28 Samantha Bickel, '91, Virginia Beach, VA
33 Woodrow Earl Dunston, Jr., '93, Louisville, NC
34 Kelvin Richard Mervick, '94, Virginia Beach, VA
35 Jeffrey Robert Platt, '93, Marshfield, MA

PHI BETA

Charter Members:

1 Joseph J. Pelletto, '89, Warren, MI
2 Louise Margaret Palaty, '88, Utica, MI
3 Richard A. Corone, '88, Utica, MI
4 Timothy Joseph Palaty, '88, Sterling Heights, MI
5 Wendy Marie O'Rourke, '90, Sterling Heights, MI
8 Ann Marie Bogdziewicz, '89, Utica, MI
11 John Fredrick Oleja, '90, Pontiac, MI
14 Scott Campbell Turner, '89, Bay City, MI
16 Maynard Lorus Isabell, '91, Fenton, MI
17 Luong Vi Tieu, '91, Royal Oak, MI
18 Susan Marie Young, '90, Troy, MI
19 Michael P. Flaga, '91, Clawson, MI
20 Arthur Earl Stephenson, '91, Troy, MI
21 Frank Ben Burdick, '92, Troy, MI
22 Mary Ann Ring, '91, Bloomfield Hills, MI

Other Initiates:

23 J. Gary Schanasi, '88, Mount Clemens, MI
25 Mark Thomas Winkelbauer, '89, Pontiac, MI
26 William Sidney Edwards, '90, Drayton Plains, MI
28 Christopher Ronald Beadle, '91, Warren, MI
29 James Patrick Kerrigan, '91, Lexington, MI
30 Tyrone Patrick Gallagher, '92, Waterford, MI
31 Marvin Stamper, Jr., '92, Walled Lake, MI
33 Andrea Tess Rosender, '93, West Bloomfield, MI
34 Kristi Marie Woodward, '91, Ann Arbor, MI
35 Edwin Wallace Bacon, Jr., '91, Mount Clemens, MI
36 David Scott Jowden, '91, Auburn Hills, MI
37 Daniel Bryan Canning, '93, Fenton, MI
39 Robert Thomas Duros, Jr., '91, Utica, MI
40 Tricia Lynn Jackson, '92, Oak Park, MI
41 Catherine Marie Jacobs, '93, Auburn Hills, MI
42 Michael Robert Melling, '92, Mount Clemens, MI
43 Laureen Ann Uffig, '92, Troy, MI

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In Memoriam



Past Grand Regent Ralph W. Nusser, Z '28

Brother Ralph W. Nusser passed away on April 29, 1991. Initiated in March, 1925, he served his chapter in various offices, including two terms as Regent. After graduating with a BSCE, he was employed by the Chicago Bridge and Iron Works, the Kansas Highway Department Bridge Division, and the Truscon Steel Company in Kansas City. During the Depression, he turned to real estate sales and property management with the A.P. Nichols Investment Company, and in 1935 joined the Sheffield Steel Corporation in Kansas City where he remained for the rest of his professional career, successively in the Engineering, Sales, and Steel Joint Departments.

At the suggestion of Founder Schrader, Brother Nusser mobilized interest among the alumni in Kansas City in hosting the Convention in 1935. At that Convention he began a thirteen-year tenure on the Executive Council with his election to the office of Grand Outer Guard. Subsequently, he served as Grand Inner Guard and Grand Vice-Regent, during which time he submitted the draft of a Theta Tau Pledge Manual published as the first of the series of such publications (now called the Pledge and Membership Manual) revised over the years. He was elected Grand Regent at the first Convention after World War II. During his term, Omicron Chapter was revived and Xi Chapter was rechartered after having been inactive for many years. There was a great influx of armed forces veterans whose return swelled the size of chapters. During the next biennium, he was Delegate-at-Large although that position was not then

an Executive Council office. Again, he was instrumental in arrangements for the 1950 Convention in Kansas City which was officially named in his honor. He remained a dedicated alumnus and contributed to the Fraternity's progress through participation in its Conventions when possible. In recent years, he made his home with his son, Bob, at 1105 Grassmere Drive, Richardson, Texas 75080-2910, while regrettably, his failing health prevented his continued personal participation in Theta Tau Conventions. Upon learning the sad news of Brother Nusser's death, Grand Regent Bettinger declared a period of thirty days' mourning for the Fraternity extending through August 19.

ALPHA

John Townsend Bailey, '29
William Boyum, '42
Richard Elmer Gile, '26
John Arthur Kabrud, '42, 7/1/78
John Jennings Kroll, '25
Harry Adolph Larson, '41
George Elwood Lind, '47
Robert Raymond Mockenhaupt, '54
John Arthur Russell, '18
Russell Herbert Talty, '46, 6/88
Stuart V. Wilson, '24

BETA

Charles Merrill Baker, '33
Earl Donald Campbell, '43
Wayne Edward Alan Jarvi, '61
Walter A. Krueger, '25, 9/6/69
William H. Lange, Jr., '35
Harold F. Mills, '14
Henry F. Moore, '20
Robert Louis Mossner, '53, 1/12/91
George Donald Moulds, '57
Harvey B. Shick, '13
Joseph S. Trotter, '40, 6/5/90
J. Robert Van Pelt, '22, 5/3/91
Francis Joseph Verville, '34, 3/2/87
Thomas Allen Watson, '39

GAMMA

Thomas A. Allan, '51
Eugene O. Binyon, '23
Robert Ernest Bond, '28
Firman H. Brown, '24
Prentice F. Brown, '20
Montgomery R. Budd, '24, 11/13/90
Lestyn M. Charles, '21
James A. Clark, '21
Lawrence Eluerne Clay, '62
Gene Baylor Colvard, '64
Henry Lawton Conger, '30
William White Cormack, '26
Carl M. Croakman, '44

James E. Dick, '12
Philip Doerr, '27
Donald Dyrnforth, '12
Henry P. Fidel, '23
Thomas G. Foulkes, '22
John Michael Galloway, '64
LeRoy Edward Hall, '35
Thomas Edwin Johnson, '52
Holtan Cook Kearny, '75
Dwayne G. Krugman, '72
Carl T. Linderholm, '23
Clark Murray Maddocks, '78
Francis W. Mann, '43, 9/88
Kenneth H. Matheson, '11
Frank Lee McClure, '34
Robert Joseph McGlone, '27
John H. McKeever, Jr., '47
Joe McNeill, '28
Robert Francis Moore, '41
James W. Pearce, '14
George Hale Playter, '30
Richard John Scalon, '38
T. N. Slaughter, '23
Arthur Clayton Smith, '37
Michael Sotock, '27
James Bradley Stacy, '69
Clifford H. Stewart, '25
Charles E. Stott, '25
Adam Neale Thomas, '52
Herbert D. Thornton, '40, 9/12/89
Herbert D. Torpey, '51
Albert Arthur Townsend, '34
Robbin Jeffrey Vinola, '79
Michael Alfred Watson, '64
William D. Weimar, '25
Loren Hue Whitescarver, '55
Robert Crawford Williams, '30
George Yeager, '39, 5/15/90

DELTA

A. Allan Batges, '25
William Frank Billingsley, '25
H. Edward Cable, '29
Kenneth Carl Davis, '53
Allen H. Glasenapp, '32, 5/17/90
Malcom W. Patrick, '47, 2/9/91
Otto Tichy, '28
Kent R. Van Horn, '26

EPSILON

Thomas Laval Bailey, '21
Mervyn Portman Boggs, '42
Granville Spaulding Borden, '18
Edgar Kenneth Borglin, '47
Russell R. Bryan, Jr., '38
Geoffrey A. Buddle, '12
Perry Byerly, '36
James B. Chamberlin, '24
Clifton W. Clark, '13
Charles Alfred Birks Cleaves, '43
Edward Joseph Coenen, '35
Donald B. Collins, '20
Allan Verne Cox, '55
John Harold Dayvault, '52
Donald Arthur Detloff, '41
Donald Edward Dinkins, '52
John C. Feeley, '13
Cyril Fox, '34
Paul A. Given, '23

Kenneth Leonard Gow, '24
 Albert William Grier, '51
 James Thomas Hawkins, '20
 Alanson K. Hegeman, '14
 John Abram Hendricks, '14
 Robert Pendleton Isbell, '42
 Gilbert S. Johnson, '30
 Fred Hardman King, '33
 Robert Stinchfield Knowles, '38
 Clarence E. Krebs, '22
 Carl Albert Lambrecht, '36
 Donald Arthur Lammers, '50
 Pierre E. Letchworth, Jr., '24, 1/19/91
 Hendrix Bryan Mathison, '51
 William A. McFadden, Jr., '36
 Dan A. McMillian, Jr., '22
 Walter Harold Mikel, '33
 John Stearns Molloy, '55
 Donald Oliver Nelson, '37
 Harold Joseph Orr, '68
 Willis Joseph Pelletier, '48
 William Plascch, '40
 Joseph Herbert Poe, '36
 William W. B. Rand, '26
 Marvin Alan Sirbu, '39
 Arlo Martin Sperry, '18
 Edward Cecil Stephens, Jr., '28
 Robert John Glenn Stewart, '23
 David Ramsay Straub, '35
 Joseph John Strutzel, Jr., '34
 Hubert Robert Thornburgh, '21
 Burl Arthur Tuller, '51
 William William Turner, '50
 Juan Victoria, '32
 Clarence E. Waldner, '15
 Heinz Lorenz Walldhausen, '39
 Edward Mark Wheeler, '38
 Charles K. White, '13
 Ivan F. Wilson, '38
 Gavin Witherspoon, '24

ZETA

Robert L. Boggs, '27
 William W. Brehm, '48
 William E. Brown, '15
 Charles M. Coats, '13 (Charter Member)
 T. Paul Dwyer, '34, 10/26/90
 Karl H. Englund, '26
 Allen Ruben Fultz, '38
 Max Francis Lamm, '36, 11/23/90
 L. Franklin Lichty, '43
 Richard R. McGee, '21
 Robert A. Meredith, '48
 Erie S. Miner, '23
 Ralph Wayne Nusser, '28, 4/29/91
 (Past Grand Regent, 1946-1948)

ETA

Elliot A. Adams, '23
 William Chapman Foster, '18
 James Wallace Gibson, '20
 John Byron Ingle, '16
 George D. Kittredge, '17
 Franklin T. Kurt, '27
 Carlisle Chandler McIvor, '18
 George F. B. Owens, '21
 Walter R. Ramsaur, '27
 James B. Reber, '14, 11/25/90
 Charles E. Worthen, '28

THETA

Philip B. R. Baas, Jr., '40
 John Henry Bose, '35
 John Crawford, '24
 Frank W. Devlin, '25
 Howard Frank Dobel, '45

William Spoor Everts, '57
 Andrew Gandeck, '49
 Forest Grant, Jr., '31
 Ali A. Hassan, Jr., '21
 Arthur Norman Hixson, '33
 James F. Hunter, Jr., '48
 Richard Earl Kameron, '55
 James A. Kearney, '30
 Herbert MacMillan, '17
 John Walter Ott, '48
 Leo J. Riconda, '34
 Jose Andres Rionda, '36
 William Francis Shaughnessy, Jr., '36
 Robert Urban Sheets, '57, 10/20/90
 Stanley Sherwood Smith, '46
 Dudley P. South, '25
 Frederick C. Spellman, '35
 Charles D. Steffens, '24
 Richard Steinschneider, Jr., '43
 John Rae Stirrat, '42
 William Victor Storch, Jr., '43
 George Silas Stringer, '35, 12/17/90
 Alan Melvin Weiner, '66, 1/88
 Joseph V. Wells, '29

IOTA

Willis H. Clark, '44
 Muir L. Frey, '22, 9/29/90
 Charles Gayle Heslet, '37, 9/12/90
 Harland H. Hoppock, '20
 John Gordon Jolly, '54
 Hugh William McCane, Jr., '64
 Robert Palmer McMath, '44, 11/8/89
 Rex Monroe, '32, 11/28/90
 James J. Offutt, '32

KAPPA

Oliver F. Burnett, Jr., '26
 John Parker Cisler, '31, 1/12/90
 Charles M. Clark, '17
 Lewis Fred Concklin, '31
 Fulton Watson Copp, '25, 12/16/90
 Otto B. Gerlach, '30
 Edmund W. Gifford, '28
 William Hildeman, '30, 1985
 George R. Johnson, '38
 Edward Daniel McKeague, '27
 Julian Carl Wheeler, '33

LAMBDA

Kenneth Clair Abplanalp, '34
 Vinal Herbert Astill, '51
 Robert Harold Blake, '50
 Edward James Brooks, '51
 Charles Henry Buell, '32
 Lester Clifford Burt, '32
 Julian S. Cannon, '27
 Andrew Lee Christensen, '25
 Hal W. Christensen, '46
 Elmer Roy Chytraus, '28
 Ralph Coombs, '29
 Kenneth F. Cropper, '31
 George W. Dauncey, '30
 Michael Davich, '43
 Franklin L. Davis, '26
 Glenn Garard Davis, '36
 William Charles Forcht, Jr., '49
 James William Funk, Jr., '29
 Eugene Delos Gardner, '06
 Harold Frederick Greene, '35, 10/22/90
 John E. Hayward, '20 (Charter Member)
 Leo Booth Hogan, '29
 Lawrence Riley Hunter, '51
 David Holbrook Jarvis, '37
 Dale R. Jensen, '40
 Raymond Alvin Johnson, '51

Clarence Ried Lesser, '43
 Bud Ledrew Madsen, '48
 Myron Wayne Mellor, '36
 Eldon Eugene Monson, '52
 Virgil F. Ostler, '44
 William Edward Ottenstein, '33
 Robert Allen Perry, '19
 Aubrey Eugene Porter, '30
 Wallace Delin Potter, '51
 Harold Emil Raddatz, '27
 Philip Keeble Rains, '52
 Lynn William Raybould, '22
 Curtis Stanley Rhees, '44, 11/20/89
 Mervin Louis Saunders, '25
 Walter E. Seyfarth, '27
 J. Cecil Sharp, '33
 Paul Melvin Shipley, '44
 Clifford Noel Stutz, '32, 12/29/86
 Ira Anderson Terry, '25
 Lyle Osborne Wahlquist, '44, 10/1/84
 Malin Russell Weiler, '26
 J. Earl Wood, '28
 Paul Alma Woodruff, '33

MU

Marshall Patton Anderson, '23
 Edwin Lloyd Bernhart, '35
 Frank Lawrence Davis, '22, 1/2/90
 (Charter Member)
 Cleabert Griffin Farabee, '24
 Frederick Carlson Hackett, '46
 Quentin Lee Hampton, '44, 1/15/91
 George V. LeGardeur, Jr., '50
 Dale Halstead Long, '34
 William Dru Murphree, '50, 11/90
 William Latten Soule, '32
 Elton Clyde Whitley, Jr., '41

NU

John Ellsworth Born, '35
 Alphonse Francis Brosky, '21
 (Charter Member)
 James H. Campbell, '24
 Paul W. Davis, '28
 Winfield Scott Davis, Jr., '38
 William Escher, '27
 Daniel M. Gray, '23
 James William Herron, Jr., '71/90
 Charles N. Hollingsworth, '24
 Frank William Horn, Jr., '42
 Edwin H. Johnson, '22 (Charter Member)
 Lloyd Blair Kramer, '40
 Alfred David Nickel, '35, 1/10/91
 Jerard Martin Pederson, '47
 Nelson Halston Poe, '26, 1988
 Albert Edward Ralston, '35
 Ralph Robert Ryan, '50
 Paul F. Schucker, '24
 Dorr Marlin Sheppard, '28, 2/21/90
 Henry Benz Stafford, '35
 August Stiegler, '25
 Edward A. Tobiasz, '27

XI

Richard Dennis Alberts, '53, 1/23/91
 Edmond Harrison Haugen, '24
 (Charter Member)
 James Gustave Koester, '55, 6/16/88
 Charles William Kuchler, Jr., '58
 John N. Pike, '48, 1988
 George Vincent Pokorny, '52

Continued on page 20, column 3.

Alumni News

Continued from page 14.

James F. Petrik, '42, has been awarded the Carl Benz Award by the Society of Automotive Historians for writing the best periodical article on automotive history. His article "The 1962 and 1963 Thunderbird Sports Roadsters" appeared in the Summer issue of Automotive History Review.

RHO

Kent Loftin, '77, has been named winner of the 1991 Palladium Medal awarded by the Audubon Society and the American Association of Engineering Societies. Brother Loftin is director of the Kissimmee River Restoration Project. His work to restore the central Florida river has been described by his peers as the "most innovative and progressive water project in the water resource area." Brother Loftin lives in Hobe Sound, Florida with his wife Jan and their two children, Nathanael and Caroline.

UPSILON

Richard Gay, '84, now lives in Ft. Worth, Texas and has been active in establishing a Theta Tau Alumni Club in the Dallas/Ft. Worth area.

GAMMA BETA

Clifford B. Stearns, '63, is a U.S. Congressman. He was elected on November 8, 1988, and represents Florida's 6th District. He serves on the Republican Committee on Committees, which hands out committee assignments to all new Members of Congress, as well as the Committee on Veterans Affairs (he served in the Air Force from 1963 - 1967), the Banking, Finance and Urban Affairs Committee, and the Select Committee on Aging. During his first year in office, Congressman Stearns secured \$8.9 million for the design of Florida's first psychiatric facility for veterans to be built in Gainesville, a project which had been delayed for 16 years through seven sessions of Congress. He was also selected to be Vice-Chairman of the Republican task force on the Savings and Loan crisis. After leaving the Air Force, Brother Stearns worked at Data Control Systems, CBS Inc., Kutola Advertising Agency, Images 70/Wilson Height Welch, and since 1972 at his own business, Stearns House, Inc. He was married in 1973 to Joan Moore, and they have three children.

DELTA BETA

Col. Thomas M. Sumner, '48, is working on establishing a Theta Tau Alumni Club in Hawaii.

Thomas R. Herman, P.E., '73, has recently joined Zeon Chemicals USA, Inc.

as the Corporate Environmental Manager. The company is located in Louisville, Kentucky.

EPSILON BETA

Charles E. Wales, '53, Past Grand Regent and 1991 Hall of Fame Laureate, completed his new calculations text, *Thinking With Equations*, in the Fall of 1989, and is now at work on another book. Dr. Wales is a Professor in the College of Engineering at West Virginia University.

ETA BETA

Terrence S. Cheng, '70, owns TSC Engineering Company, an engineering and surveying company located at 1001 S. Dairy Ashford, Suite 200, Houston, Texas 77077.

KAPPA BETA

Capt. Huland C. Smith, '81, has been selected as an exchange officer for the United States Air Force. He is currently serving at the Canadian Aerospace Engineering Test Establishment.

NU BETA

Karen M. Spence, '90, was married on June 23, 1990 to Jeff Spence. Brother Spence (formerly Karen Statz) is employed as a pre-manufacturing engineer at A.O. Smith Automotive Products Co. in Milwaukee, Wisconsin.

TAU BETA

Ranga Balasekaran, '90, is currently in medical school in Dallas, Texas, and intends to pursue a career encompassing both electrical engineering and medicine after graduation.

Executive Council

Continued from page 9

DELEGATE-AT-LARGE

RANDALL J. SCHEETZ, O '79

Brother Scheetz is now serving as Delegate-at-Large after leaving the office of Grand Regent, which he held from 1986 to 1990. Since his college graduation, Randy has continually served the fraternity at a national level. In 1980 he was appointed Alumni Field Secretary. He has served on the Executive Council since 1982, first as Grand Outer Guard, then Grand-Vice Regent until 1986, when he was elected Grand Regent.

Randy is currently employed as a Senior Manufacturing Engineer and a Group Leader in new product design at John Deere Waterloo Works in Waterloo, Iowa. He is involved in many aspects of engineering, including plant engineering, quality control, manufacturing engineering, new product development and introduction.

Randy and his wife Linda live in Denver, Iowa with their three children, Rebecca, Laura and Tim.

In Memoriam

Continued from page 19

OMICRON

Richard Alan Dickson, '54
Melvin Roy Lincoln, '53
Wilbur H. Wickham, '28

PI

Ivan Thomas Burney, '50
John Isaac Cofer, III, '45
Paul William Finnegan, '46
Barth John Gilchrist, '37
Jack Henry Griffith, Jr., '59
Harry Reginald Holt, '29
Edward John Merow, '32
William Waverly Miller, Jr., '45
Frederick T. Morse, '37, '71/79
William W. Symington, '38
Francis William Taylor, '24 (Charter Member)
Taylor Fitz-Hugh Turner, '27, '36/91
Ogden Edwards Willis, '39
Thomas Pym Wilson, Jr., '39
Samuel G. Wise, '22

RHO

David Howell Barrett, '55
Thomas Lawson Barringer, '63
Thomas Safrin Davis, '57
Steven Franklin Hine, '73
James Vinson Johnson, '57, '11/24/89
David Hill Michal, '44
Hubert Lee Morgan, Jr., '38
Winfield Scott "Buck" Morris, '24, '1/19/91 (Charter Member)
Paul F. Murray, '56, '4/13/90
Edward A. Robison, '26
Ray Caudle Shaw, '60
Walter Carr Thomas, Jr., '11/2/90

SIGMA

Francis Marion Hageman, '33
John Edward Houser, '40
Lester W. Kale, '29
Curtis E. LeMay, '28, '10/1/90 (Hall of Fame Laureate)
Michael Edward McConnell, '69, '11/90
Theodore James Swain, '29, '4/1/90
James Joseph Vistline, '36

TAU

Donald Stuart Backus, '40, '5/23/90
Robert Frank Bean, '30, '5/14/90
Vern Coventry Bell, '47, '5/90
James Ernest Blowers, '48, '6/8/89
James E. Carpenter, '43, '2/90
Kenneth Franklin Cramer, '28 (Charter Member, transferred to Alpha)
Robert Joseph Dollard, '42, '7/16/90
Henry Claude Evans, '41
Jacob Meeker Halsey, '49
Robert H. Hughes, '25 (Charter Member)
Gordon E. Lovelace, '49
Joseph G. Maceyka, '54, '6/4/90
Sterling B. Mitchell, '35
Robert William Oertel, '37
Norman W. Selter, '27
Edward Harvey Snyder, '44
Wilson Lee Sutton, '28

Continued on page 15, column 1.

Chapter Addresses

*Alpha **C	515 Tenth Avenue, S.E. Minneapolis, MN 55414 (612) 331-7931 & 7932	*Chi W	1030 North Martin Avenue Tucson, AZ 85719 (602) 881-8031 & (602) 327-7718	*Pi Beta G	1227 Jefferson Avenue Kalamazoo, MI 49007 (616) 345-8487
*Beta C	Route #1, Box 119 Houghton, MI 49931 (906) 482-7259	*Omega W	109 Kansas City Street Rapid City, SD 57701 (605) 343-7768	Rho Beta G	P.O. Box 5884 Athens, OH 45701 (614) 593-1571 (Office) & 1585 (614) 593-7155
*Zeta W	1935 Heatherwood Drive Lawrence, KS 66047 (913) 841-0822 & 9867	Gamma Beta A	2115 "F" Street, NW, Room 404 Washington, DC 20037 (202) 994-9738	Sigma Beta C	Univ. of Wisconsin-Milwaukee P.O. Box 784 Milwaukee, WI 53201 (414) 229-4477
*Mu S	P.O. Box AM Tuscaloosa, AL 35486 (205) 348-4924	*Epsilon Beta G	478 West Alexandrine Detroit, MI 48201 (313) 832-4042	Tau Beta W	Southern Methodist University Box 436 Dallas, TX 75275 (214) 890-7519
*Xi C	1633 Monroe Street Madison, WI 53711 (608) 256-6752	*Iota Beta G	4026 West McNichols Road Detroit, MI 48221-3039 (313) 861-9683 & 9711	Upsilon Beta A	Webb Center, Room 200 Old Dominion University Norfolk, VA 23529 (804) 423-8487
*Omicron C	508 North Dubuque Iowa City, IA 52245 (319) 338-0142	*Kappa Beta S	P.O. Box 2983 Mississippi State, MS 39762 (56 South Park Estates Starkville, MS 39759) (601) 323-6184 & 6185	Phi Beta G	49 Oakland Center CIP Office Oakland University Rochester, MI 48309-4401 (313) 370-2027
*Pi A	Thornton Hall University of Virginia Charlottesville, VA 22903 (108 Maury Avenue Charlottesville, VA 22903) (804) 971-5892	*Lambda Beta S	264 East 16th Street Cookeville, TN 38501-1302 (615) 526-3823	Chi Beta G	c/o David G. Ferencik 2249 University Hills Blvd. Toledo, OH 43606 (419) 536-5145
*Rho A	4 Maiden Lane Raleigh, NC 27607 (919) 828-2730	*Nu Beta C	160 North Hickory Street Platteville, WI 53818 (608) 348-4456 & 9639	Psi Beta W	c/o Brian Dieringer 3501 Lake Austin Blvd., # 37 Austin, TX 78703-5507 (512) 480-0778
*Sigma G	1946 Indianola Avenue Columbus, OH 43201 (614) 291-3456 & 7966	Xi Beta G	Lawrence Technological Univ. 21000 West Ten Mile Road Southfield, MI 48075 (313) 383-8608	* Chapter House ** Each Unit's Region: A - Atlantic; C - Central; G - Great Lakes; S - Southern; W - Western.	
*Upsilon W	1322 West Cleveland Fayetteville, AR 72701 (501) 443-4393	*Omicron Beta G	Univ. of Michigan-Dearborn Room 226-ROC 4901 Evergreen Road Dearborn, MI 48128-1491 (313) 563-0341		
*Phi C	416 North Chauncey West Lafayette, IN 47906 (317) 743-2461 & 2601 Annex: (317) 743-2623				

Appointed National Officers

ATLANTIC REGIONAL DIRECTOR

Lee C. Haas, P '62
812 Merwin Road
Raleigh, NC 27606
H: (919) 851-6952
B: (919) 543-4933

CENTRAL REGIONAL DIRECTOR

Glen A. Wilcox, Q '90
1416 Tremont Street
Cedar Falls, IA 50613
H: (319) 277-3652
B: (319) 292-8539

GREAT LAKES REGIONAL DIRECTORS

Joseph R. Abdo, IB '90
157 Beech Street
Geneva, OH 44041
H: (216) 466-7589

George K. Kostopoulos, B '88
2324 Heritage Pointe Drive
Sterling Heights, MI 48314-3738
H: (313) 739-8751

SOUTHERN REGIONAL DIRECTOR

Lee C. Haas, P '62
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Raleigh, NC 27606
H: (919) 851-6952
B: (919) 543-4933

WESTERN REGIONAL DIRECTOR

Brad D. Besmer, Q '86
6870 Riverwood Lane
Colorado Springs, CO 80918
H: (719) 528-5469
B: (719) 590-5100

HISTORIAN

Charles W. Britz, A '33
19350 Park Avenue
Deephaven, MN 55114
H: (612) 473-3015
B: (612) 645-3601

ARCHIVIST

Lawrence F. Feldsien, A '62
5116 North Alameda Street
St. Paul, MN 55391
H: (612) 484-9005
B: (612) 636-7744

PROFESSIONAL DEVELOPMENT DIRECTOR

Lance L. LeTeller, Q '89
11408 Midland Road
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