

# *The GEAR of Theta Tau*

Volume LXXV, No. 2

Spring, 1994



**Minneapolis, Minnesota  
Site of 90th Anniversary Convention  
August 18-21, 1994**

## CONVENTION IN MINNEAPOLIS

The Fraternity will return to the site of its founding for the 90th Anniversary Convention scheduled for August 18-21, 1994, at the Sheraton Minneapolis Metrodome, 1330 Industrial Boulevard. Previous Conventions hosted by Alpha were held there in 1911, 1929, 1954, and 1966.

Since this Convention will commemorate the Fraternity's 90th Anniversary, it will be a very special event. Minnesota is a popular summer vacation site, so members should plan now to make attendance at this Convention a part of their summer travel plans. More information is available upon request from the Central Office.

As usual, highlights of the Convention will be the induction of distinguished members into the Alumni Hall of Fame and the presentation of awards to outstanding members and chapters at the Banquet on Saturday evening.

## MEMBERSHIP DIRECTORY

The publication of a completely updated Membership Directory is a 90th Anniversary project of our Fraternity. Each alumnus with a known address, and each student member who returns a form, will appear in the alphabetical, chapter roll, and geographical sections of the Directory. The new Directory will enable you to rekindle old friendships, let others know where you are and what you are doing, and assist you in making valuable social and professional contacts with others who share the Theta Tau experience. It has been five years since data for the last Directory were assembled. Much of the information in it is now obsolete since about 20% of our members have address changes in any year. A copy of the Directory will be sent to each one participating.

If you have received a Directory Information Form and have still not returned it, please complete and send it in at once. If you did not receive an information form, or do not have it at hand, please contact the Central Office so that an additional form may be provided for your use. The Directory will be incomplete if your fully completed form is not sent to our office.



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Cover Photo: Minneapolis Skyline. Courtesy of Minneapolis Visitors and Convention Bureau.

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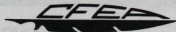
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**Edward L. (Ned) Ashton**, Omicron '25, was honored posthumously for service to his profession and to Theta Tau. His nephew, **William Ashton**, Omicron '61, accepted the award at the 1993 National Conference.

Brother Ashton graduated from the University of Iowa with a B.S. in Civil Engineering in 1925, and an M.S. in Civil Engineering in 1926 (both Structural and Hydraulic). He was Professor of Structural Engineering at the University of Iowa from 1943-1957. He started his own consulting firm in 1936 and practiced consulting engineering full-time from 1957 until shortly before his death.

He was a member of the All-American swim team, captain of the Iowa team in 1925, and Midwestern AAU backstroke champion, 1921 to 1926.

His career included work on the Grand Coulee, Wheeler, and Boulder Dams; the St. Louis subway; and nine major Mississippi River bridges. His designs were frequently years ahead of their time as demonstrated by the use of the Rock Island "Centennial Bridge" - a design of the 1940's - as the logo for the 1983 "Bridges of the Future" National Conference. He designed the first all-welded girder highway bridge and the all-welded aluminum bridge.

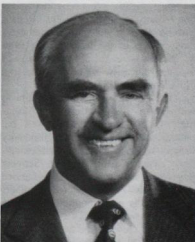
He did pioneer work on pre-stressed concrete; welded bridges; and the development of radio telescopes. Most remarkable of his work was his design of the 140-foot radio telescope at the Greenbank National Radio Observatory

in West Virginia. It remains one of the most accurate instruments today.

Ned Ashton was proud to be a member of Theta Tau. In his work, he always sought to symbolize Theta Tau's "light of courage."

**Samuel L. Higginbottom**, Theta '43, was honored for service to his profession. He holds an engineering degree from Columbia University and attended the U.S. Air Force Aviation School at Yale University and the Harvard Business School's Advanced Management Training Program.

In 1946 Brother Higginbottom's professional career began at TWA where he served in various supervisory capacities including vice president - engineering, flight test and inspection. In 1964 he joined Eastern Airlines as vice president of engineering and maintenance and in 1970 was elected president, chief operating officer, and director. In 1974 he was appointed chairman, president and chief executive officer of Rolls-Royce, Inc., where he served until his retirement in 1986. He continues to be deeply involved in the aerospace industry and currently serves as a director of British Aerospace, Inc., and HEICO Corporation.

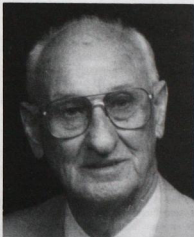


Brother Higginbottom is Chairman Emeritus of the Board of Trustees of Columbia University and was a recipient of the Eggleston Medal at Columbia University Engineering School. In 1971 he served on a Presidential Panel to study technological opportunities in civil aviation. He is a member of the Aviation Hall of Fame and in June

1980 was created an Honorary Commander of the Order of the British Empire for his contribution to Anglo/U.S. commercial relations.

**Andrew B. Marum**, Chi '40, was honored for service to his profession and to Theta Tau.

Following WWII, Brother Marum returned to Tucson working in various capacities before joining his brother in their own business, Marum and Marum Consulting Engineers, Inc., in 1952.



He has served as President of the Arizona Section of ASCE, President of the Arizona Section of the American Water Works Association, and President of the Arizona Water and Pollution Control Association. He received the Distinguished Citizen Award from the University of Arizona Alumni Association in 1978, and the Professor John C. Parks Outstanding Civil Engineer Award from the University in 1979. He was named Engineer of the Year by the Southern Arizona Chapter of NSPE in 1972.

Brother Marum has led an active Theta Tau life in addition to his professional life. He has been President of the Chi Chapter Building Corporation since 1961. Brother Marum was a guiding force in negotiations with the University of Arizona to find a suitable new location for the current larger chapter house. In January of 1991 the initial sixteen members moved into it.

Brother Marum is married to his wife of fifty-three years, Marie. They have two sons and four grandchildren of whom he is very proud.

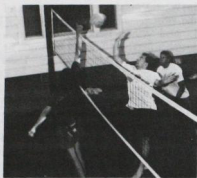
The 1993 National Conference was a unique experience — even more than expected. It was to have been Theta Tau's first national meeting in an informal camp setting. On the Wednesday afternoon, national officers gathered for a meeting in the A-frame lodge of Ross Camp a few miles outside West Lafayette, Indiana.

Due to the central location of the site chosen, nearly all chapter Delegations drove, sleeping bags or bedding in tow. Upon arriving, those attending set up chapter displays, reported to the Credentials Committee, laid claim to a bunk, or set up a tent, then socialized at the arrival reception held during Conference Registration.

Later that evening, members and their guests gathered in the dining hall for the Opening Dinner where the Conference was welcomed to Indiana by Brother **John F. McLaughlin**, Tau '50, Associate Dean of the Schools of Engineering, Purdue University. Each one named Outstanding Student Member by his chapter was honored at this dinner. As soon as everyone returned to the A-frame from the dining hall, a severe thunderstorm occurred resulting in sporadic power failures at the camp. Committee work followed.



During the morning session, word came that the Conference was being displaced due to contractual disagreements with the camp management. Within ninety minutes, Conference attendees had packed and moved to the Purdue campus. By 12:30 that afternoon the Conference was again hard at work holding Regional Meetings during lunch at the Phi Chapter House. Subsequent Conference Sessions were efficiently rescheduled at the superior facilities of Stewart Center at Purdue University.



These unexpected disruptions tested the mettle of those attending; all of whom successfully met the challenge and persevered with a Hammer and Tongs spirit. In fact, they were drawn closer together resulting in an even more successful Conference.

"Ideals into Action," the Conference theme, was developed through introspective exercises at each session led by **Michael Abraham**, **Brad Besmer**, and **Lee Haas**.

The volleyball pit provided recreational activity for those attending the cookout at the Phi Chapter House. The chapter house also provided lodging during the remainder of the Conference for many of those attending.

After lunch on Saturday, the Initiation Team headed by Phi Regent **Damon DeSantis**, presented the ceremony. One of the initiates was **Ivan V. Walter**, '22, the first President of Torque Fraternity which had become Phi Chapter in 1928.

The Closed Session was continued with **Grand Regent Bettinger** presiding. The Conference approved the petition from the Syracuse University Colony which had been presented earlier. **Past Grand Regent Scheetz** presided for the Memorial Service during which were honored members whose deaths were reported during the previous year.

At the close of the Saturday afternoon session, members moved to the Purdue Memorial Union nearby for the Reception and Conference Banquet.

Members and their guests enjoyed refreshment from a punch fountain and fraternal brotherhood followed by a superb dinner in the adjoining room.

At the Banquet, **Edward L. Ashton**, Omicron '25; **Samuel L. Higginbottom**, Theta '43; and **Andrew**

**B. Marum**, Chi '40, were inducted into the Alumni Hall of Fame (see article on page 1). Brother Marum was the Banquet speaker. **Justin Wiseman**, Xi Beta '94, was named **Outstanding Student Member** for service to the Fraternity during 1993. Named **Outstanding Delegate** by vote of his peers was **John F. Gustafson**, Phi '94. Chapters honored were **Chi** winning the Member-Miles Award; **Omicron** the Best Display Award, with **Sigma** second; and **Rho Beta** the Best Presentation Award. Best Delegation Award (in each Region) went to **Gamma Beta** (Atlantic), **Phi** (Central), **Sigma** (Great Lakes), **Kappa Beta** (Southern), and **Chi** (Western). **Omicron Chapter** won the Best Newsletter competition, and **Nu Beta** the Best Photograph contest with **Xi** second. Certificates for increasing chapter size by 20% went to **Xi Beta**, **Zeta**, and **Beta** Chapters. Those maintaining a student membership greater than 40 were **Mu**, **Omicron**, **Phi**, **Chi**, **Omega**, and **Psi Beta**. Chapters honored for best chapter performance in 1992-93 were **Xi Beta**, **Nu Beta**, **Kappa Beta**, **Omicron**, and **Sigma**.

The Conference concluded with the Sunday morning Session seeing a balanced budget adopted with student dues to be increased in June, 1994. Bylaws amendments were adopted to clarify intent, to make additional options available to chapters with disciplinary problems, and to simplify the procedure for approving a curriculum as one whose students are eligible for membership in Theta Tau.



**Comments from**  
**John F. Gustafson, Phi '94,**  
**1993 Outstanding Delegate**

My pledging of Phi Chapter was a great moment and key decision for my future. I am very thankful for all I have gained through the Fraternity. At my first chapter elections, I was elected Scribe. The next semester I was named one of the Social Chairmen and assisted the Treasurer. For the past eleven months, I have served as Treasurer. I like to be involved with decision-making in the chapter and often provide input. I have obtained estimates for house improvements, directed our computer system updates, captained



I was honored to be named Outstanding Delegate, and I hope that our work in the Finance Committee will keep the Fraternity on secure financial footing. I will always remember the Brotherhood that I have experienced. I will graduate in December, 1994, and will be active in Theta Tau well beyond that date.



**Ivan Walter**, Phi '22, initiated into Theta Tau at the Conference, was presented a Torque Racing Team jersey by **John Gustafson**, Outstanding Delegate. Other Phi members, **Brian Ross**, **Andy DeKeyser**, and **Mitch Ober** look on.

## Engineers precise, to say the least

**ANN LANDERS**

**No City, Please:** Thirty years ago, I married an engineer. Our marriage was an emotional wasteland, would have been a better father if our children were robots he could program. Engineers can do anything except love. I want to be human and care.

Durham, N.C.: My husband is ...

**"Engineers ... know very little about human interaction."**

**Chicago:** My wife is an engineer. She is precise, analytical and definite in her views, and she always thinks before she speaks. She's as cold as ice and so sure of herself she makes me sick. My next wife will probably be an empty-headed, bubbly moron, and it will be a relief.

**Carbondale, Ill.:** You're darned right engineers are different. I am still happily married to mine after 37 years. They tend to look before they leap and have stable marriages. By nature, they are problem solvers, sensitive and caring. The woman who wrote

**Dear Ann Landers:** Your recent column bashing engineers prompted me to write.

It brought to mind the fact that former presidents were engineers: Herbert Hoover and Jimmy Carter.

**"By nature, the  
are problem s  
sensitive and**

Now that women have won the right to be in combat units with men, everything will be different. (Un)S... going to insist on being... across the board... their

**Dear Ann Landers:** Two people were never more different than my husband and I. I don't know how we ever got together.

I am a psychologist, and the man I married is an engineer. He is a perfectionist when it comes to sewers, walls, air conditioning and roofs and can solve any kind of building problem, but the man is a bit of a control freak. I don't like exploring or personal

**Dear Readers:** Remember, in citing pros and cons of engineering?

to complain ended up with the wrong man, not the wrong profession.

No Gity, Please: Three years ago, I married an engineer. Our marriage was an emotional wasteland, would have been the father if our children were robots he could program. Engineers can out everything except floods.

Durham, N.C.: My husband is an engineer. I hate waiting.

going to insist on being on the board, their

erent.

I married an engineer. He is a perfectionist when it comes to sewers, walls, air conditioning and roofs and can solve any kind of engineering problem, but the man is without exploring of a personal

Dear Readers: Remember, an engineer is an engineer.

UnScientific Reasoning On The Engineer Bringing

Verily, I say unto ye, do not marry an engineer.

(NORTH SHAMPSHIRE)

PSA

Engineer Bashing Brings Letters of Opposition

Verily, I say unto ye, do not marry  
an engineer.

...now, dear readers, here's another newspaper clipping:  
...engineers make  
...husband...

The opinions of the good nar-  
atives of about 7,000 Co-thing  
mbia University engi-ing an  
ring alumni were at both-  
ht as part of the ob-ould be  
nce of the centennial er, a zoc  
sary program opedia  
ersity progr-

grave injustice. It's the same as saying all fat people are lazy and all Appalachians are barefoot and ignorant. I expected better from you. You

Albany, N.Y.: I demand equal time. You guessed it. I am married to a woman. My engineer

"By nature, they are problem solvers, sensitive and caring."

During 1993, five columns by Ann Landers explored the personality of engineers as seen by their spouses. Permission granted by Ann Landers and Creators Syndicate.

The above headlines attracted my attention. My thoughts as an engineer completing a gratifying career follow

The engineering profession requires and we willingly give full dedication. The tools we work with are imagination, best judgment, and available facts. Using these the engineer must produce a structure, a product, or a conclusion that performs as required. **Failure is just not tolerated.** The engineer accepts and is fully conscious of this demanding responsibility. These thoughts frequently "go home" with the engineer when he or she leaves the office or laboratory. All of these conditions certainly do contribute a facet of our personality.

I have no solution for the adverse opinions in the column above. I am not certain that any real change is even desirable. Certainly an engineer cannot be less exact or less dedicated. Only one thought:

Had I been as conscious of this at the beginning of my career as I am now, I still would have been a dedicated engineer but with a fuller life by being more conscious of family, those around me, and the beautiful world in which we live.

Ivan V. Walter, P.E., Phi '22

**A** **Jamie Laughlin**, '90, is a graduate student at Arizona State University in Tempe, AZ, pursuing an MBA.

**John Bohike**, '92, received his CE degree and is now employed as Highway Technician with Minnesota DOT in St. Paul.

**B** **John F. Kelly**, '48, has retired as Chief Engineer from Detroit Steel Products and is working part time as an adviser to the Spring Research Institute and as chairman of the SAE Leaf Spring subcommittee.

**Scott Shellenbarger**, '89, is an Engineer with Kiewit Western in Elk Grove, IL.

**T** **Arthur Palm**, '76, is now living in Price, UT.

**Δ** **Marc P. Kelemen**, '81, reports that he has a daughter Caroline who is one year old.

**Z** **Paul Endacott**, '23, was presented with Kansas University's Distinguished Engineering Service Award in 1991. Brother Endacott excelled on KU's basketball court as well as in the petroleum industry. He retired as President of Phillips Petroleum.

**John S. McNow**, '36, recipient of KU's Distinguished Engineering Service Award, and a member of the KU Civil Engineering faculty for twenty-nine years, is known for his technical contributions in fluid mechanics and for his leadership in engineering education in Africa.

**Milton D. Sills**, '55, was honored with the Distinguished Engineering Service Award from the University of Kansas. Brother Sills, a pioneer in business jet aircraft, made the first test flight of the original aircraft, and made invaluable contributions to subsequent Cessna Citation aircraft. Brother Sills was promoted to Vice-President of Product Engineering for Cessna in 1988. Brother Sills and his wife Betty live in Augusta, near Wichita, KS.

**John Dealy**, '58, appointed chairman of the Department of Chemical Engineering last year, now has been named Dean of Engineering at McGill University in Montreal, Canada.

**Richard E. Werp**, '79, is a principal engineer at Boeing Company working on the Space Station Freedom program, living in Madison, AL. He has patented a new design in Airborne Early Warning Radar.

**R. Brian Reid**, '90, is a First Lieutenant in the U. S. Air Force analyzing radar signals and is stationed at Offutt Air Base near Omaha, NE.

**Howard J. Sacks**, '93, received his BSAE and has moved to Wichita KS, where he is an engineer with Boeing.

**Jason Karlin**, '94, has accepted a position as a programmer with Anderson Consulting in Kansas City.

**Θ** **J. Kelly Johnson**, '23, a retired consultant, at 90, summers in Vermont and winters in Liverpool, England.

**I** **John V. Andesilich**, '66, of St. Charles, MO, is with JACA Electric Company.

**M** **D. Shane Wright**, '91 is now an Engineer with Monsanto and lives in Decatur, AL.

**Christine L. Boykin**, '92, is now a graduate student at The University of Alabama, Tuscaloosa.

**Ernest Foster**, '93, received his BSEE degree and is now employed with Alabama Power in Birmingham.

**Robert E. Markin**, '93, is a Research Assistant and student at the University of Colorado in Boulder, CO.

**Ruth Erin Rabalais**, '93, is a Development Engineer with Dow North America in Baton Rouge.

**E** **John W. Mitchell**, '56, Adviser to Xi Chapter, was presented the Ragner E.

Onstad Service to Society Award for his efforts to educate the public about the potential of global nuclear warfare.

**Nikki Abramoff Lowrey**, '79, has been promoted to Manager of Materials and Processes at The Boeing Company in Huntsville, AL. She is responsible for space survivability of materials and contamination control on the Boeing portion of the Space Station Program.

**Laura J. Haas**, '91, is working in programming/systems and analysis/software engineering for Promega in Madison, WI.

**O** **Wilfred George**, PhD, '50, is Vice President Investments, Portfolio Manager with Prudential Securities in San Francisco, CA.

**Rob Moellering**, '85, is a top ten tennis player in the St. Louis area.

**Jeff Lussman**, '92, is living in Muscatine, IA, and working for Monsanto. He is engaged to Cheryl Bolesch, an ME from Purdue who also works at Monsanto.

**Jeanette A. Thielen**, '92, received her BSE degree and is a Biomedical Engineer for the Veterans Administration in Memphis, TN.

**Jason Wilbur**, '92, is a graduate student at Cal Tech in Pasadena, CA.

**Π** **James T. Sluder, Jr.**, '30, writes that he is still ranching in Guadalupe County, TX. In July, 1993, he visited for the first time in 63 years with his roommate from the SAE house at UVa, **Paul B. Krebs**, '30, who was in San Antonio to receive an award from the American Water Works Association.

**Robert F. Morse**, '50, retired from the State of Virginia since 1992, and is now President of International Marketing Consultancy, Richmond, VA.

**P** **Vincent Hammond**, '90, completed his MS in Engineering Mechanics at Virginia Tech in August, 1993, and is currently working on his PhD in Materials Science at the University of Virginia.

**Jeffrey L. Ellis**, '92, is a Software Engineer at Bell Northern Research and living in Raleigh, NC.

**Jonathan Saluta**, '93, is a graduate student at the University of North Carolina at Chapel Hill, NC.

**Σ** **Edward J. Vinarcik**, '93, is a Manufacturing Engineer with Ford, living in Ypsilanti, MI.

**Brett D. Steen**, '94, is living in Hickory, NC.

**Y** **Jerry C. Perciful**, '60, is now Business Director for Europe, Africa, and the Middle East for Texaco Additive Division and lives in Ghent, Belgium.

**Gary McNiel**, '91, married Penny Berkgigler on October 10, 1992, and lives in Maryland Heights, MO.

**Craig "R-Less" Deaton**, '93, is employed as an ASIC Designer with Texas Instruments in Dallas, TX.

**Robert D. Higbie**, '93, is now an Associate Engineer with Bell Helicopter, Textron, living in Arlington, TX.

**Roger E. Salyers**, '95, lives in Merrillville, IN.

**Richard G. Brusch**, '65, was appointed Program Director for the Air Force Mission Support System Common Law Observable Auto Router and F-117A A/W/E with GDE Systems Inc. (formerly part of General Dynamics) in San Diego, CA.

**Halbert D. Church, Jr.**, '80, Western Regional Director, and his wife Amy are the proud parents of a son born May 16, 1994.

**Jeffrey R. Hedrick**, '88, is a Reliability Engineer with Ford Electronics in Dearborn and lives in Belleville, MI.

**Mary Rougeot**, '93, a U.S. Army Maintenance Officer, will transfer to Europe this summer.

**Douglas E. Aldrich**, '62, 1989 Alumni Hall of Fame Laureate, was named to the Board of the International Facility Management Association as Director of its 13 councils. He had been President of its R&D Facilities Council, which was chosen Council of the Year. He has become a Certified Facility Manager.

**Mark Janssen**, '88, Grand Inner Guard, and his wife Debbie are the proud parents of a daughter Victoria born this past fall.

**Mark Ingalls**, '92, married Christie Welk in October, 1993, and is working for Microsoft in Bellevue, WA.

**James J. Peterson**, '92, is a Systems Analyst with Shell Oil Company, in Houston, TX.

**Timothy J. Hammers**, '93, is a Process Engineer with Eagle Picher Industries in Colorado Springs, CO.

**Kelly Boos**, '93, is System and CASE Administrator for Motorola, Inc., in Boynton Beach, FL.

**Kara M. Morley**, '93, is a Systems Specialist with Unisys Corporation in Blue Bell, PA.

**Richard E. Beard, Jr.**, '71, retired as a Lt. Colonel from the U. S. Air Force on September 30, 1993.

**Jerome R. Palardy**, '93, former Executive Council member, received his degree in computer science. He and his wife, Louise, Phi Beta '88, toured ten European countries. Included was Ireland, and a visit with **Mike Palmer**, Epsilon Beta '88, former Regional Director. Jerry is now a Systems Engineer with Pyramid Solutions.

**Joseph R. Abdoo**, '90, was married in June, 1993. He is a Customer Service Engineer with Praxair in Jackson, NJ.

**Kristine Haley Bell**, '89, is a Mechanical Engineer Contract for Dow International Technical Services in Houston, TX.

**W. John Lee**, '59, Noble Chair and Professor of Petroleum Engineering, Texas A&M, was elected to the National Academy of Engineering. He was honored for contributions to formation evaluation of low-permeability gas reservoirs theory and practice.

**Steven L. Martinolich**, '92, and **Denise Peterson Martinolich**, '93, live in Clinton, MS, where she is a Pre-Plan Engineer with Packard Electric.

**John Garr**, '88, is working as an Aerospace Engineer for Sverdrup Technology in Huntsville and pursuing an MS in Environmental Engineering.

**Jeffery S. Lovegrove**, '93, is a graduate student in Environmental Engineering at TTU.

**Michael D. Hansing**, '92, is a Mechanical Engineer with Sterling, in Milwaukee, WI.

**Mark W. Wellman**, '92, is now in Technical Sales with Hettinga Equipment, Inc., in Des Moines, IA.

**Vance P. Powers**, '93, is a Civil Engineer for River Valley Testing Corp. in Wausau, WI.

**Milan D. Bjelobrk**, '91, is employed by Standard Federal Bank in Troy, MI.

**Mark Holzhauer**, '87, is a sales engineer for Philips Semi-conductors in Colorado.

**Jeffrey R. Holmes**, '93, is a transmission product engineer at Ford Motor Company in Livonia, MI.

**Mark Beaudoin**, '93, is a Design Engineer with Quantum Controls in Livonia, MI.

**Jason P. Whitman**, '92, is a Process Engineer with Summit Polymers in Kalamazoo, MI.

**Curt D. Campbell**, '93, is engineer in automobile body hardware for Masco Technologies, Inc., in Sterling Heights, MI.

**Christopher Hill**, '91, is working as a Waste Characterization Engineer for Labyrinth Group in Dayton, OH.

**Thomas J. Beauchaine**, '83, received his BS degree in CE and is now Assistant City Engineer for Hartford, WI.

**Jeffrey Henn**, '92, received his BSME degree and is now a Technical Sales Engineer with Tri-Clover in Kenosha, WI.

**James Jegers**, '93, is a Programmer with ATI Systems in Milwaukee after having received his BS degree.

**Jill Lancaster**, '92, received her BSCE degree and is System Administrator with Northside ISD in San Antonio, TX.

**Jennifer Lynn Revels**, '93, received her BSCP and is now an Engineer with Texas Instruments and lives in Lewisville, TX.

**Gregory Garner Williams**, '92, graduated with the degree BSET and is employed with A. L. Rood in Norfolk.

**Vasil D. Germanski**, '93, is an Electrical Engineer with Creative Industries in Auburn Hills, MI, after having received his Bachelors and Masters degrees in Electrical Engineering.

**Andrew Junkins**, '92, has received his BSME degree and is a Mechanical Engineer I with Interbold in Canton, OH.

**Glenn Channell**, '93, is currently a graduate student in Chemical Engineering at the University of Illinois.

**Mark Thompson**, '92, received his BS degree in Electrical Engineering, and is an engineer for Motorola in Austin.

**Jeremy Segers**, '93, received his Aerospace degree and is a Technical Services Engineer at Lone Star Steel in Dallas. He married Jennifer D. Jones on April 16, 1994.

## TAU BACK AT SYRACUSE

November 20, 1993, will remain an important day in the history of Tau Chapter of Theta Tau. On this day, Tau Chapter at Syracuse University was reinstalled after a four-year absence. The installation ceremony was held at the Sheraton University Hotel. Eleven brothers were initiated as charter members and an additional fifteen were initiated at a second ceremony performed by Tau alumni. Grand Regent Dean Bettinger presided over the installation ceremony alongside the other members of the Executive Council. Attending the installation were representatives of eleven chapters.

In attendance at the subsequent banquet were Dean of the School of Engineering and Computer Science Steven Chamberlain and Associate Dean Anne Shelly of the L. C. Smith College of Engineering. Aaron Tersteeg, Mike Doran, Eric Weierstall, and Pedro Rodriguez accepted the charter at the installation banquet.

Tau Chapter consists of thirty-one students from different backgrounds, different majors, and different aspirations, who have in Theta Tau found a common bond. Thirteen currently live in the chapter house.

The Tau Chapter house is about one hundred years old. During our absence from the Syracuse University campus, it was leased to Alpha Omicron Pi sorority (whose flower is also the Jacqueminot).

TAU MEMBERS AT 1993 NATIONAL CONFERENCE  
(L-R): Scott Messenger, Dean Bettinger, Michael Doran, Brian Rakvica, Matthew Stace, Aaron Tersteeg, and Art Partin



During this past summer, the house underwent extensive remodeling. Much of the remodeling work was done by Tau brothers: Aaron Tersteeg, Scott Mulvey, Jeremy Beck, Oren Nagasako, and Dean Bettinger, among others. Thanks to their efforts, our house is among the best on campus.

The road to regaining chapter status was not always an easy one. The colony was first composed of founding fathers Aaron Tersteeg, Aaron Brunson, Sebastien Goulet, Eric Weierstall, Pedro Rodriguez, Scott Messenger, and Greg Harder who petitioned to become a colony in 1991. They, together with our Adviser Matt Stace, Tau '85, are ultimately responsible for the reinstallation of this chapter.

We are looking forward to meeting other students and alumni across the nation. If you are in the area, please stop by the chapter house.

## OMEGA BETA INSTALLED AT HOFSTRA UNIVERSITY

The Fraternity has granted the petition received from its Hofstra University Colony. The Colony was installed as Omega Beta Chapter on Saturday, April 30. The Colony had been certified at Hofstra University on Long Island in Hempstead, New York, almost exactly two years before, on May 2, 1992.

This is the second chapter to be installed in the Empire State in the last year. The chapter at Hofstra brings to thirty-one the number of active chapters in Theta Tau, the greatest number ever in the Fraternity's history.

The Fall, 1994, issue of *The Gear* will provide more detailed information about this milestone event.



## FIRESTONE INDUSTRIAL PRODUCTS STUDENT DESIGN CONTEST

Firestone Industrial Products Company's annual Innovators Student Design Contest has raised its cash awards to a total of \$8,500. The contest asks for innovative designs utilizing air springs as actuators or isolators. It is open to full-time engineering students during the fall and spring semesters of 1994-95.

A **\$5,000 scholarship** or grant will be awarded to the engineering school attended by the designer(s) of the winning project. First, Second, and Third-place designers will receive awards of \$2,000, \$1,000, and \$500, respectively.

Entry deadline for the contest is June 1, 1995. Winners will be selected by August 1, 1995. The first place design will be featured at the National Design Engineering Show (NDES) in Chicago in March of 1996, and travel expenses to NDES for the designer(s) will be paid by Firestone Industrial Products Company.

Entry kits and educational packets are now **available to both students and engineering professors**. For more information call Paul Palmer at 800/888-0650 or write to: Firestone Student Innovators Design Contest, c/o Firestone Industrial Products Company, 701 Congressional Boulevard, Carmel, IN 46032.



The **ARIZONA STATE UNIVERSITY** Colony of Theta Tau has gotten its gears moving by achieving colony status on October 23, 1993. Grand Regent Bettinger presided over the certification and banquet at the Hilton Pavilion in Mesa, AZ. The ten initiated into the colony were honored by the presence of Grand Scribe Pope,

Past Grand Vice-Regents John W. Catledge and Halbert D. Church, Jr., currently Western Regional Director, Student Member of the Executive Council Safieh, and Hall of Fame Laureate Andrew B. Marum.

The colony is currently working to petition to become a chapter by the end of 1994, and to organize various

professional, social, and philanthropic events. Seven pledges are awaiting initiation into the colony, while twelve are beginning their pledge period. Those at the 1993 National Conference and Western Regional Conferences have met some of the colony members and have learned first hand about the program at Arizona State.

#### ASU COLONY CERTIFICATE PROUDLY DISPLAYED

Front Row (L-R): Kevin Wong, Robert Hajduk, Rosie Nolasco, Kristin Wiley, Thomas Bair, Deb Shane  
Back Row: Greg Albert, Kazuaki Itaya, John Hughes, and Joseph Gonzales



The **NORTHWESTERN UNIVERSITY** Colony of Theta Tau was certified on November 13, 1993. The ceremony was performed by several national officers. Theta Tau members from many chapters, including student members from Omicron, Nu Beta, and Pi Beta Chapters, attended to support the colony.

The certification weekend included dinner with national officers and fraternity members at an Italian restaurant on Friday evening, a tailgate prior to the Iowa - Northwestern football game,

and culminated with a banquet on Saturday following the ceremony.

Looking ahead, our colony introduced Theta Tau to the Northwestern University with a campus-wide event during National Engineers Week. Essentially a design competition, the First Tech Golf Meet featured an indoor miniature golf course in the engineering building. Individual holes were designed and constructed by campus organizations. For a small fee, students played the course and voted on the best design. All proceeds went

to charity.

Other activities included sponsoring a couple to participate in the campus charity event Dance Marathon. Our Rush/Social Chair Anish Mehta and Treasurer Rachel Zajano tested their stamina and patience dancing together for 30 straight hours!

The Northwestern Colony continues to grow and hopes to become a chapter. The exciting events planned present excellent opportunities for chapters to visit our young colony and check us out!



#### NORTHWESTERN COLONY MEMBERS FLASH SMILES

Front Row (L-R): Sarah Meier, Anish Mehta, Rachel Zajano, Sanjay Saxena, Arlene Martin  
Middle Row: Francis Nuthalapaty, Chris Jones, Victor Su, Mark Stanton  
Back Row: Paul Cooper, Gabriel Moy, Ron Rothman, and Khairul Azizbadi

#### MEDITERRANEAN CRUISE ON THE AZURE RESCHEDULED FOR SEPTEMBER 23 - OCTOBER 2

For the first time members, their families, and guests may enjoy a Fraternity-sponsored journey including Venice, the Greek Islands, and Turkey aboard the Azure. The revised dates are September 23 - October 2, 1994. Enjoyment will be enhanced by travelling with others of similar age and backgrounds.

If you don't have material on this opportunity at hand, phone the Central Office, 800/264-1904, to receive complete information.

# Additions to Membership



## ALPHA

- 1011 Jeffrey Michael Beatty, '95, St. Paul, MN  
1012 Scott John Landgreen, '95, Stillwater, MN  
1013 Eric Allen Martinson, '96, Huntington, NY  
1014 Douglas Cain Hopinkah, '98, Acoma, NM

## BETA

- 1240 Daniel James O'Brien, '94, Belle Plaine, MN  
1241 Robert Peter Miller, III, '94, Green Bay, WI  
1242 Jonathan David Hassert, '94, Belding, MI  
1243 Jeffery Allen Johnson, '93, Coleman, WI  
1244 Kristen Jennings Hauglie, '93, McMillan, MI  
1245 Kenneth Alan Pollard, '94, Iron Mountain, MI  
1246 John Luckie Kauppi, '95, Rudyard, MI  
1247 Michael Ray Moran, '94, Algonac, MI  
1248 Keith George Sysma, '95, Grandville, MI  
1249 Matthew M. Olosky, '95, Swartz Creek, MI  
1250 Scott Alan Northuis, '95, Holland, MI  
1251 John Carl Bartoszek, '95, Bark River, MI

## MU

- 1285 David Jeff Jackson, '84, Tuscaloosa, AL  
(Honorary Member)  
1286 Larry Thomas Wurtz, '79, Northport, AL  
(Honorary Member)  
1287 Leon Yvelington Sadler, III, '67, Tuscaloosa, AL  
(Honorary Member)  
1306 Dallas Brett Baker, '95, Montevallo, AL  
1307 Michael Ray Smith, '95, Creola, AL  
1308 Anthony Anthony Ciranni, '94, Rochester, NY  
1309 Erin Yung Akin, '98, Aurora, CO  
1310 Andrea Marie Kendrick, '95, Jasper, AL  
1311 Brandon Jevon Satterwhite, '97, Adamsville, AL  
1312 Nathaniel Douglas Redmond, '98, Trussville, AL  
1313 Felix Edward Todd, Jr., '98, Tuscaloosa, AL

## XI

- 563 Peng Hee Wong, '95, Daly City, CA  
564 Ross Everett Bagwell, '96, Edina, MN  
565 Jessica Cecily Corbett, '97, Cato, WI  
566 Adam Thomas Fleming, '95, Middleton, WI  
567 Sharon Lynn Semrau, '96, Janesville, WI

## OMICRON

- 1155 Timothy Joseph Bechen, '97, Dubuque, IA  
1156 Maree Lynn Chase, '96, Birmingham, IA  
1157 Elizabeth Ann Falbo, '95, Borwick, IA  
1158 Donald Matthew Feltman, '96,  
Downers Grove, IL  
1159 Aaron Jay Foelsch, '97, Indianapolis, IA  
1160 Jill Marie Hamerand, '97, Dubuque, IA  
1161 Donald Matthew Hemphill, '97, Newton, IA  
1162 Sean Christopher Knowles, '96, Des Moines, IA  
1163 Jennifer Joyce Kraus, '96, Fairfield, IA  
1164 Sybil Christina Lang, '96, Ottumwa, IA  
1165 Matthew Madison Mhm, '95, Bettendorf, IA  
1166 Brent Allen Myers, '96, Ottumwa, IA  
1167 Onesty Marie Elizabeth Sheedy, '97,  
Davenport, IA  
1168 Deborah Ann Theys, '96, Des Plaines, IL  
1169 Kendra Lynn Wyatt, '97, Shell Rock, IA  
1170 Richard Allen Young, '89, Iowa City, IA  
1171 Dong Minh Banh, '97, Ankeny, IA  
1172 Sarah Elizabeth Harris, '97, Clarksville, IA

## RHO

- 1037 Jorge Javier Medina, '97, Raleigh, NC  
1038 John Patrick Becker, '97, Morganville, NJ  
1039 Richard Edward Beckham, '96, Raleigh, NC  
1040 Christopher John Brown, '96, Broadway, NC  
1041 Jonathan Gary Cocks, '98, Greensboro, NC  
1042 Derek Nathan Hawkes, '98, Greensboro, NC  
1043 Edward Herbert Hunt, IV, '94, Sharpburg, NC  
1044 Dwyer Lamar Lawhorn, '94, Charlotte, NC  
1045 Jose Federico Martinez, III, '97,  
Yanceyville, NC

- 1046 Jared Allan Patton, '99, Morganton, NC  
1047 Mark Richard Presutty, '96, Greensboro, NC  
1048 Scott Alan Shuffler, '99, Morganton, NC  
1049 Scott Everett Stamey, '97, Morganton, NC  
1050 Stephen Brent Thomas, '99, Washington, NC

## SIGMA

- 811 David Charles Morrison, '96, Roseville, MI

## TAU

### Charter Initiates:

- 851 Aaron William Brunson, '94, Buffalo, NY  
853 Gregory Alan Harder, '93, Syracuse, NY  
854 Scott Clifton Messenger, '94, Liverpool, NY  
855 Pedro Augustin Rodriguez, Jr., '94, Queens, NY  
856 Aaron Christopher Tersteeg, '94, Dalton, PA  
857 Eric Joseph Weierstall, '94, Rouses Pt., NY  
858 Jeremy Michael Beck, '94, New Tripoli, PA  
859 Robert William Chimeski, '93, Horseheads, NY  
860 Pavel Barash, '95, S. Sonewelle, NJ  
862 Ruben Morales, '95, Winter Park, FL  
863 Jeffrey Axel Till, '93, Camillus, NY

### Other Initiates:

- 864 Hasitha Chamath Abeysunwardena, '95,  
Colombo, Sri Lanka  
865 Timothy James Andrick, '95, Darlington, PA  
866 Michael Edward Doran, '94, Snyder, NY  
867 Derek Joseph Guadagnolo, '96, Syracuse, NY  
868 Brian Eric Kearney, '95, Port Murray, NJ  
869 Scott Alexander Mulvey, '94, Doylestown, PA  
870 Armando DaSilva Pereira, Jr., Nauvau, CT  
871 Kenneth Andrew Simon, '95, Old Bethpage, NY  
872 Michael Cheng-Wei Sun, '96, N. Brunswick, NJ  
873 Kommet Bulatao Tamayo, '96, Latham, NY  
874 Ching Peng Cheng, '96, Brooklyn, NY  
875 Richard Raymond Lundborn, '96, Rochester, NH  
876 Oren Kame Nagasako, '95, Honolulu, HI  
877 Brian Anthony Rakvica, '96, Schenectady, NY  
878 David Anthony Riter, '96, Port Crane, NY

## UPSILON

- 992 Michael Wayne McCollum, '97,  
Heber Springs, AR  
993 Shannon Wayne Jones, '96, Mena, AR  
994 Corey Allan Magee, '96, Fayetteville, AR  
995 William Joseph Ayers, '96, Rogers, AR  
996 Davis Clet Burrow, '97, Black Rock, AR  
997 Mark Allen Treat, '94, Big Flat, AR  
998 Kerry Wade Austin, '97, Atkins, AR  
999 Darren Dewette Jayton, '94, Ft. Smith, AR

## PHI

- 753 Mark Keith Crancy, '96, Indianapolis, IN  
754 Bryan David Landsiedel, '96, Lawrence, IN  
755 Ivan Vaughn Walter, '22, Ft. Wayne, IN,  
(Alumnus Member)  
756 Eric David Halloran, '96, Benton, WI  
757 Keith Wayne Hammer, '96, Dolton, IL  
758 Robert David Martin, '96, Galesburg, IL  
759 James Robert McKenna, '96, Orchard Park, NY  
760 Jason Hussein Nijim, '96, Dhahran, Saudi Arabia  
761 Christopher Robert Patrick, '96, Naples, FL  
762 Neil Aaron Sparber, '96, Munster, IN  
763 Raymond John Brandt, '97, Libertyville, IL

## CHI

- 1075 Justin Campbell Jenia, '97, Sierra Vista, AZ  
1076 Elaine Ming Gee, '96, Phoenix, AZ  
1077 Brandon Jon King, '96, Show Low, AZ  
1078 Charles William Micka, '94, Tucson, AZ  
1079 Christopher David Mont, '96, Mesa, AZ  
1081 Christine Michelle Bartley, '96, Tucson, AZ  
1082 Matthew Gardner Bayes, '98, Glendale, AZ  
1083 Robert Coleman Brady, II, '97, Northbrook, IL

- 1084 Joshua Michel Cruz, '98, Tucson, AZ  
1085 Steven James Franson, '95, Scottsdale, AZ  
1086 Glenn Albert Gannon, '97, Norwalk, CT  
1087 Anthony Otis Gray, '95, Scottsdale, AZ  
1088 Frank Stanley Grochowski, '96,  
Lake Havasu City, AZ

- 1089 James Eric Heyen, '95, Salem, OR  
1090 Scott Allen Leska, '95, Tucson, AZ  
1091 David William Little, '96,  
Lake Havasu City, AZ  
1092 Neil Forrest Proctor, '96, Phoenix, AZ  
1093 Norman Louis Smith, Jr., '96, Tucson, AZ  
1094 Pamela Anne Tingley, '95, Glendale, AZ  
1095 Tommy Raymond Turner, '98, Phoenix, AZ  
1096 Robert John Zakowicz, '96, Scottsdale, AZ  
1097 Phillip Joseph Zeringue, '97, Madison, AL

## OMEGA

- 1052 Craig David Beaubien, '95, Sioux City, IA  
1053 Travis Keith Boam, '96, Gillette, WY  
1054 Bryan Lyle Bowman, '98, Sturgis, SD  
1055 Corey Jason Enderle, '96, Taylor, ND  
1056 Eric Thomas Gebhardt, '95,  
White Sulphur Springs, MT  
1057 Darin Lewis Hodges, '98, Sturgis, SD  
1058 Kevin Lawrence Krcil, '96, Mitchell, SD  
1059 John Cullen Redmond, '97, Tigra, ND  
1060 James Louis Soulek, '97, Lake Andes, SD  
1061 Carson Blake Stiles, '97, Broadview, MT  
1062 Darin Lawrence Tille, '97, Sioux Falls, SD  
1063 Jason Allen White, '96, Hysam, MT

## GAMMA BETA

- 560 Marc Steven Goldberg, '96, West Bloomfield, MI  
574 Andrew Thomas Tellez, '97, Florissant, MO  
620 Julia Mae Bowen, '96, Herndon, VA  
621 Chad Yutaka Kawamura, '96, Millitani, HI  
622 Rosalie Sanchez Maduro, '97, San Diego, CA  
623 Sasha Rae Pallet, '95, Metairie, LA

## EPSILON BETA

- 397 Edward Armand LeBlanc, Jr., '95, Roseville, MI  
398 Joseph Charles Marion, '95, Newport, RI  
399 Gregory Michael Plotter, '96, Lincoln Park, MI  
400 Kevin Kurkowski, '98, Warren, MI  
401 Matthew Locricchio, '95, Sterling Heights, MI  
402 Amit Vashi, '93, Detroit, MI  
403 Jonathan Jude Zamora, '98, Canton, MI

## IOTA BETA

- 251 Reynaldo Lara Alcides, '97, Los Angeles, CA  
252 Ross Alan Clark, '97, Boardman, OH  
253 Anthony Norman Copp, '97, Crystal, MI  
254 Sergio De La Riva, '97, Somerton, AZ  
255 James Martin LeBeau, '97, Roseville, MI  
256 Amanda Marie Mitchell, '97, Memphis, MI  
257 Jeremiah Chay Smith, '97, Okemos, MI  
258 Jeremy Michael Tschaepe, '97, Hamburg, NY  
259 Alvaro Leonel Valencia, '97, Chicago, IL

## KAPPA BETA

- 489 Vickie Ann Cavazos, '95, Starkville, MS  
490 Natasha Ann Hughes, '96, Tylertown, MS  
491 David Michael Ishee, '96, Raymond, MS  
492 Sherry Ann Johnson, '95, Pascagoula, MS  
493 Jason Wayne Kilgore, '96, Stewart, MS  
494 Christopher Shane Rinehart, '94, Baldwin, MS  
495 Robin Lee Zich, '95, Memphis, TN

## LAMBDA BETA

- 262 Roger Dale Bostian, '97, McKenzie, TN  
266 Nathan Brice Holloway, '98, Smyrna, TN  
267 Kevin Jon Meador, '96, Cookeville, TN  
268 Dennis Jason Riddell, '95, Chattanooga, TN

## NU BETA

263 Craig Allan Burros, '96, Westby, WI  
 264 Scott Fredrick Kiefer, '95, Marshall, WI  
 265 Matthew Edward Reynolds, '97, Potosi, WI  
 266 Daniel C. Roehrdanz, '96, Janesville, WI  
 267 Andrea Denise Zeleznka, '96, Beloit, WI  
 268 Philip John Bain, Jr., '97, Bettendorf, IA  
 269 Mark Richard Boorse, '97, Brookfield, WI  
 270 James Wayne Claerbout, '97, Oostburg, WI  
 271 Steven James Markos, '96, Onalaska, WI  
 272 Kelly Lynne Roach, '95, Green Bay, WI  
 273 Debra Gail Seibert, '97, Brookfield, WI

## XI BETA

78 Benjamin John Beverly, '98, Rochester, MI  
 79 Markus Thomas Esch, '95, Troy, MI  
 80 Timothy Jaroslav Lisowsky, '95, Novi, MI  
 81 Christopher Brandon Burns Preston, '97, Plymouth, MI  
 82 William Herschelle Scherer, '96, Redford Township, MI

## OMICRON BETA

94 Michael Robert Biga, '95, Livonia, MI  
 95 Robert Anthony Mazur, '89, Allen Park, MI  
 96 Brian Wallace Stop, '95, Garden City, MI

## PI BETA

93 Elizabeth Michelle Beecham, '95, Lansing, MI  
 94 Dwayne Scott Bontrager, '95, Burr Oak, MI  
 95 Tara Gibbs, '96, Detroit, MI  
 96 Wayne Paul Gonser, '95, Nottawa, MI  
 97 Kristie Anne Kubinski, '97, Stevensville, MI  
 98 Robert James Porrett, '96, New Era, MI  
 99 Steven Dean Tebbetts, '94, Troy, MI

## RHO BETA

75 John Donald Campbell, '95, Toledo, OH  
 76 Jeffrey David Chase, '95, Clinton, OH  
 77 Joshua Dennis Fulk, '96, Massillon, OH

78 Michael Dean Grandstaff, '96, Wyoming, OH  
 79 Paul Joseph Gubancik, '96, Parma, OH  
 80 Christopher Michael Smith, '96, Canal Fulton, OH  
 81 Joseph Aloysius Williams, IV, '96, Newbury, OH  
 82 Jon Thomas Leuthauser, '95, Cuyahoga Falls, OH  
 83 Danielle Magee, '97, Pittsburgh, PA  
 84 Jason McKinley Watson, '96, Crown City, OH

## SIGMA BETA

58 Jennifer Elizabeth Fabian, '96, Mosinee, WI  
 59 Michael Ramon Alburg, '95, Milwaukee, WI  
 60 Susanne Bettina Buchberger, '96, Sullivan, WI  
 61 Garrett Michael Forkner, '96, Kohler, WI  
 62 Timothy Alen Heimerl, '96, Shorewood, WI  
 63 Richard Brian Noonan, Jr., '95, Milwaukee, WI  
 64 James Harold Woelfel, '95, Sheboygan, WI

## TAU BETA

59 Jang Wook "Mike" Lee, '94, Dallas, TX  
 60 Lewis Thomas Hampton, '94, Dallas, TX  
 61 Bradley Stanton Hood, '94, W. Monroe, LA  
 62 Richard Jordan Post, '94, Irving, TX  
 63 Jennifer Leigh Hooper, '94, Rockwall, TX  
 64 Christopher David Anderson, '93, Ft. Worth, TX  
 65 Jon Christopher Villanueva, '95, San Antonio, TX  
 66 Mark Gregory Bochnak, '94, Scottsdale, AZ  
 67 David Ushunadi Varghese, '94, Addison, TX  
 68 Heather Renee Harrison, '94, Spring, TX  
 69 David Tolland Dalton, '94, Albuquerque, NM  
 71 Taylor Dewitt Brown, '96, Dallas, TX  
 72 Michelle Marie Harris, '95, St. Charles, IL  
 73 Evan Christopher Kastner, '96, Leawood, KS  
 74 Nobuyuki Okamoto, '95, Aving, TX  
 75 Dirk Brannon Sylvester, '94, Houston, TX  
 76 Scott William Noble, '95, Arlington, VA  
 77 Gregory Wesley Woo, '94, Inverness, MS

## UPSILON BETA

53 Henry Joseph Pope, '95, Springfield, VA  
 54 Bradley Coyanda Parkes, '95, Woodbridge, VA  
 55 Christopher Charles Casad, '97, Warrenton, VA  
 56 Lucas Eric Foster, '94, Springfield, VA

## PHI BETA

59 Geoffrey Dale Bouma, '96, Lake Orion, MI  
 60 Christina Ann Blair, '95, North Royalton, MI  
 61 Theodore Kenneth Ricks, '98, Grand Lodge, MI

## CHI BETA

52 Jennifer Kimberly Calmer, '94, Chagrin Falls, OH  
 53 Brian James Flynn, '95, North Royalton, OH  
 54 Richard Scott Keith, '96, Wakeman, OH  
 55 Shawn Patrick Cap'ser, '95, Northwood, OH  
 56 Kenneth Donald Forsythe, Jr., '95, Newport, MI  
 57 Michael Brian Hess, '94, Caledonia, OH  
 58 Thomas Raymond Kennedy, '97, Toledo, OH  
 59 Thomas Joseph LaValle, '96, Toledo, OH  
 60 Christy Lee Barrientos, '96, Toledo, OH  
 61 Todd Stephen Baughman, '96, Napoleon, OH  
 62 Philip Andrew Drey, '95, Toledo, OH  
 63 Todd Franklin Hadlock, '96, Geneva, OH  
 64 Timothy James Herzog, '94, Sandusky, OH  
 65 Zane Joseph Janicki, '96, Samaria, MI  
 66 Jeffrey Adam Kalmbach, '96, Sylvania, OH  
 67 Christine C. Maloy, '96, Brunswick, OH  
 68 Nathan Thomas Schroeder, '97, Ft. Jennings, OH  
 69 John Joseph Soncrant, '95, Oregon, OH

## PSI BETA

78 Matthew Michael Dugan, '97, Spring, TX  
 79 Haley Lorraine Norman, '97, Austin, TX  
 80 Glen Eric Biron, '95, Lewisville, TX  
 81 Saranyoo Golf Glanchai, '95, Ponder, TX  
 82 George Edward Eisenhower, '95, Corpus Christi, TX  
 83 Douglas Jarrett Peeler, '96, Houston, TX  
 84 Scott Stephen Trulock, '98, Dallas, TX  
 85 Rebecca Ann Baker, '96, Edna, TX  
 86 Brian Houston Head, '96, Cleveland, TX  
 87 Kristine Marie Jacobs, '96, Austin, TX  
 88 William West Beckmann, '97, Bishop, TX  
 89 Michael Brandon Foertsch, '96, Victoria, TX  
 90 Seema Mehta, '96, Houston, TX  
 91 Donald Hopkins Mahoney, III, '95, Sugar Land, TX  
 92 Nancy Costonick, '95, Houston, TX  
 93 Joshua Stephen Hooze, '98, San Antonio, TX

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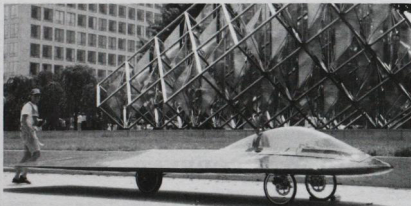
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# GWU's "Concept Car" — Sunforce 1

For two years, a team of students at The George Washington University dedicated their efforts to the design, construction, and racing of a solar car. In the final team of thirteen, seven were members of Gamma Beta Chapter: Ben Feldman, Kevin Groot, Cory Knudtson, Charlie Mercier, Jason Newlin, Eric Takamura, and Steve Willson.

They competed in two solar car races during 1993. Sunrayce '93 was a seven day 1100-mile US and Canadian collegiate race. The 1900-mile World Solar Challenge, held in Australia, was an international competition including Honda, Toyota, Nissan, etc. The main focus was the World Solar Challenge, so the car, "Sunforce 1," was designed to meet the less stringent rules for that race.



To compete with car companies with much money to build very powerful solar arrays, the team had to be smarter. Every system was optimized for maximum efficiency. For low weight, the chassis was a semi-monocoque graphite-epoxy with foam and honeycomb core design. For reduced drag, our car had the smallest frontal area of any that competed and a cramped driver compartment. Our driver had to be shorter than 5'4" and had to drive fully reclined with the canopy squeezed around his head. The car was almost twenty feet long, six feet wide, and stood 33" high (40" high with the "US only" roll-bar installed to pass US scrutineering). Excluding the canopy, the thickest part of the chas-

sis was less than 12". The car was a three-wheel design with the two front wheels spread about 40" apart and the rear wheel containing two rims about two inches apart. The tires were 17" Moulton slicks at 140 psi. Rack and pinion steering pointed the front wheels. Double reduction cogged belt drive with quick-change ratios drove the rear wheel from a DC Brushless motor. The motor was controlled by the driver through a potentiometer or through the on-board computer which optimized the current draw to minimize power drain. The car was capable of sustaining 42 miles per hour on only 1000 watts of power.

Many members, having spent more than 18 hours each day for many months to get the car ready, arrived in

Texas for Sunrayce '93 with much work yet to do. After barely passing scrutineering, thanks to slightly different interpretations of the rules, we were started in 15th place, but by the end of the day, we finished 3rd. The next day, at the midday stop in Kansas City, we were in first place. One mile from the finish line, we were 40 minutes ahead of Michigan and Cal Poly, Pomona when the front left wheel found a rain grate and broke the wheel and steering knuckle arm. After a quick fix we limped in, third for the day. In Minneapolis we finished fourth overall behind Michigan, Cal Poly, and Cal State, Los Angeles. We were the only entry in the top eight that had not previously built a car and came in first

place among the private universities. Our 1000-watt solar array design won first place for technical achievement.

We returned to Washington, DC, after Sunrayce '93 to devise a plan to compete in the World Solar Challenge. Everything from management to wheel design changed. I became the new team leader which proved quite a challenge. We replaced many parts, built a new solar array (slightly better cells with expected output of 1300 watts), redesigned the wheels, tested, tested, and tested some more. We put another 1500 miles on the car while testing. Many of us would sleep in the solar car lab and start work again in a couple of hours. The University was not supportive, requiring funds to be raised by the team before making expenditures. The school held out and scared us into donating \$700 each in order to go to Australia. We had to cut team members to cut expenses. Although some members had quit jobs to work on the car, several were not able to go.

A few days before leaving for Australia, I received a phone call at 3:00 am informing me that our car and solar array had been dropped and damaged when unloaded from the freighter in Australia.

Once in Australia, we repaired the chassis and did our best with the new array. The spare array was so damaged that its output was less than 500 watts. The new array was being fixed while we tested with the spare array. After all the repair was done on the new array, the output peaked at 960 watts.

As the race began in Darwin on November 7, we started 12th in a field of 52 teams because of our qualifying speed of 57.4 miles per hour. It was a very hectic mass start with none of the solar cars having their lead and chase vehicles until they were out of the main part of the city. After the first 20 miles, it was difficult to pass because of the single lane and large tractor trailers (road trains, tractors with three trailers). Each night the teams camped where they ended at 5:00 pm and began the next day at 8:00 am at the same point, until each finished the race. At the end of the first day, we were in eighth place with Michigan and



Cal Poly right ahead of us. By the end of the second day, we were pretty far ahead of Michigan, but camped just a couple of hundred yards from Cal Poly. For the next couple days, we traded places with Cal Poly quite often while averaging speeds of 40 to 44 miles per hour. Because of some mechanical trouble, we finished in Adelaide on Friday just twenty minutes behind Cal Poly. We were the ninth place team, the second place US entry, and the first US entry in the one-seater class. Three hours later Michigan came in followed by Nissan (JPN); Cal State, LA; and Stanford University.

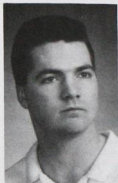
Our placement proves that more can

be done with less. The teams ahead of us were getting at least 1400 watts — about 45% more power than we were. Some teams getting far more power than we were far behind. This car's success was a testament to good design, the correct goals, and much hard work.

About the Author:

**Kevin D. Groot**, '93, served as Regent for two semesters. He was honored as the Fraternity's Outstanding Student Member for 1991. He began work on the solar car as the head of the transmission design group. After Sunrayce '93, he became the solar car

project team leader. Commissioned a 2nd Lieutenant in the United States Air Force, he entered active duty in March, 1994, for Undergraduate Missile Training at Vandenberg Air Force Base. Later, he will be stationed at Grand Forks Air Force Base for Missileer duty.



## CHAPTER CAPSULES

**ALPHA** set a record high chapter GPA of 3.5 (up from 2.8 the previous quarter), increased its size, and entertained at its 17th Annual Toad Jam.

**ZETA** continued its yearly tradition, building the KU Engineering Expo Entranceway, this time in the shape of a lunar landing module.

**MU** started a petition drive against a proposed plus/minus grading policy at The University of Alabama which has garnered much attention.

**PI** assisted in hosting the International Semi-conducting Devices Research Symposium at Virginia.

**RHO** marked its 70th Anniversary at NCSU and initiated a class of 13, many of them second-term freshmen.

**KAPPA BETA** at MSU did volunteer work for the American Heart Association, held a Children's Home Christmas party, and participated in the United Way Halloween Carnival.

**NU BETA** held its very successful First Alumni Appreciation Weekend in conjunction with UW-P Homecoming.

**XI BETA** at Lawrence Tech participated in tours of the Bowling Green Corvette Plant, Haggerty Connector, and Fermi Nuclear Power Plant.

**OMICRON BETA** had good times going from UM-D to Lawrence Tech to supervise students taking the Math Counts test, and to The Ohio University for the Annual Halloween Party.

**HOFSTRA COLONY**, while preparing its petition for installation as a chapter, significantly increased its size with the initiation of 13 very motivated members.

# This One's On The House!

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## ALPHA

Francis J. Biltz, '31, 11/17/93  
Robert Wilfred Friis, '30, 12/17/91  
Glen Maurits Larson, '23  
Elmer Ervin Carl Malkow, '43, 12/17/93  
Marlowe Arthur Nelson, '42, 10/10/93  
John Ernest Tushie, '57

## BETA

Harold Moro Borden, '47, 4/20/93  
Raymond Earl Christensen, '44, 9/8/92  
James Heath Cole, '44, 3/25/93  
Harry Lowman Crawford, Jr., '40, 1/28/94  
Kenneth Earl Gates, '47, 4/3/94  
Ritson H. Graves, '28, 2/26/94  
Lewis J. Haga, '25, 6/26/87  
William Henry Swank, '39  
Lyle Philip Tonne, Jr., '56, 1/19/88  
Lyle Philip Tonne, Sr., '28

## GAMMA

Charles William Brown, '48, 2/18/92  
Robert Stewart Brummet, '26  
Robert Fitzpatrick Burford, '44  
Vernon Gras, '44, 6/3/91  
Dan Halsey Griswold, '30  
Thomas Jefferson Holmes, Jr., '27, 4/23/93  
Robert John Hundhausen, '38, 7/4/93  
Edgar Harry Jeffries, Jr., '34  
James B. Judge, '40  
Leonard Morgan, '36, 11/22/93  
Wesley G. Moulton, '37, 12/15/92  
Robert Lofgren Olund, '36, 5/15/93  
James Robert Torpey, '49  
Kenneth D. True, '35, 4/5/93  
Richard Franklin Zimmerly, '45, 5/26/93  
Walter Henry Edward Zwick, '32, 2/6/94

## DELTA

William Richard Allen, Jr., '32, 11/12/91  
Arthur James Bazeley, '48, 5/18/93  
Frank Porter Converse, '40  
Clifford Hathaway DeWitt, '26, 9/19/93  
William Robert Eckman, '41  
William Charles Jenner, '33  
James Henry Jensen, '48  
Marion M. McGrew, '31  
Frank Raymond Obenchain, '41, 11/30/93  
Thomas Franklin Shaffer, '31  
Gordon Norton Udy, '20  
William Pfanner Von Behren, '25, 5/15/93  
Michael Albert Weppner, '31  
Samuel Beck West, '33  
Howard Thomas Williams, '27, 2/25/94  
John Alexander Wilson, '40, 12/1/93

## EPSILON

Loren Henry Angel, '47  
Douglas Gridley Brookings, '58, 4/30/91  
James Bachelard Cathcart, Jr., '39, 9/9/93  
Ralph Works Chanet, '30, 3/3/71  
(Honorary Member)  
Harrison L. Coles, '13  
John Domercq, Jr., '34, 11/14/93

Dallas Hurd Gray, Jr., '38  
James Edward Hogle, '35, 12/15/93  
Eugene Louis Kessler, '50, 9/17/93  
James Louis Larsen, '58  
Paul Ernest Schulz, '32, 4/25/93  
Alfred Oswald Woodford, '13

## ZETA

Richard LaVerne Backman, '55  
Richard Eugene Boggs, '55, 1/2/91  
Robert Lee Brothers, '47, 7/13/93  
John Edgar Corydon Elliot, '46, 1/16/94  
William Clinton Fisher, Jr., '60, 4/22/94  
Carl Arthur Gray, '22, 1/31/90  
Lawrence D. Guy, '48, 12/2/92  
Duane A. Hunt, '44, 10/12/92  
Robert Griebie Paulette, '40, 5/4/93  
James Carlyle Robbins, '42, 5/21/93  
Lawrence William Taylor, Jr., '55, 1/15/93  
Wayne Lorrain Wood, '31, 9/5/93

## ETA

Edward Hartshorne, '28, 9/15/93  
John Brown Jacob, '26, 1/22/94  
Charles Kingsley, Jr., '27, 2/20/94  
Ernest Edward Polley, '15, 2/16/94  
Robert Charles Wallace, '27, 4/21/92  
Donald Dickinson Way, '19

## THETA

John Henry Berger, '37, 8/13/93  
William F. Guinness, '25  
John Kremlin Madinov, '43, 12/23/93  
Robert William Schnepf, '56, 1/29/94

## IOTA

Walter Franklin Breuer, '37, 4/2/94  
William Waller Coghill, '33, 10/17/92  
Allen Walter Lindberg, '45  
George Hanley Musson, '33, 11/29/93  
James Pasley, '25, 1/7/94  
James Francis Smith, '27, 9/5/92  
Arthur James Williams, Jr., '32, 11/7/89

## KAPPA

William Ray Cameron, '20  
James Ely Dare, '31, 9/5/93  
Paul George Dingley, '25, 1/14/94  
Henry Francis Irving, '28  
Carl Theodore Madsen, '29, 8/28/93  
Gerald Frederick Pauley, '27, 9/17/93  
Robert H. Reece, '20  
Keith Rich, '32, 8/15/93  
Joseph Benjamin Tiffany, Jr., '31, 8/10/93

## LAMBDA

Delmer Arnold Berg, '40, 10/22/92  
James Patterson Blackledge, '48, 6/10/91  
Wallace Delbert Ellison, '45, 11/23/93  
William Charles Hague, '31, 12/24/93  
Pierce W. Ketchum, '22  
John Graham McQuarrie, '40, 1/6/94

Donald William Newsome, '34, 11/13/93  
Dexter Dee Penman, '52  
Fred Rasmussen, Jr., '38, 9/24/93  
Donald Wrathall Rowberry, '26  
Raymond Alan Sargent, '53  
Richard Vivian Sloan, '31  
Ross Lloyd Snedaker, '27, 8/4/89  
Edward Harrison Snyder, Jr., '46  
Robert F. Weyher, '39, 9/24/93  
Albert Richard White, '43, 8/19/93  
Robert C. Yundt, '23

## MU

Donald Kelly Bryant, '53  
Edwin Dudley Burwell, Jr., '38  
James C. Butler, '40  
William Cecil Chadwick, '35  
John Dorsey Collins, '54, 5/13/93  
Woosley Fennell, Jr., '28, 7/10/93  
Thomas Foster, '30  
William Teague Gay, Jr., '45  
William Taylor Hill, '49, 4/6/90  
Lowell Pressley Jernigan, '74  
Homer William Kirby, '62  
Joe B. Martin, '23  
Marvin James McGarity, '50  
Lewis Alfred McKenzie, '59, 12/19/93  
Shubal King McMillan, Jr., '39, 3/29/90  
James Townsend Merwin, Jr., '62, 5/8/93  
Louis John Mueller, '30  
William Lewis Robinson, '30, 5/5/92  
James Alden Simpson, '32  
James Anthony Sims, Jr., '44  
Thomas Edward Snow, '48  
Frank Beck Stickney, '39  
James William Walker, '35  
Carl A. Weston, '22, (Charter Member)

## NU

John Wakefield Clingerman, '33  
Clarence Richard Deible, '28, 1/30/93  
James O'Hara Denny, III, '48, 5/29/93  
Russell Ellsworth Dorrell, '34, 1/25/94  
Edward M. Gilbert, '26, 12/15/91  
Iver Herbert Lundgren, '33, 3/19/93  
William Herbert Newton, '44, 7/23/93  
Ross William Rotzler, '40, 8/11/93  
Joseph Anthony Spoerlein, '38  
Thomas William Ungashick, '34, 12/5/92

## XI

Kenneth John Engeldinger, '50, 6/4/93  
Edward Martin Jagodzinski, '52

## OMICRON

Leo John Aschenbrenner, '32  
Corliss LeRoy Benson, '41, 3/12/93  
Robert William Cocayne, '49  
Louis Paul Grimm, '41  
Charles Frederick Lenthe, '52, 8/17/92  
William Henry Mayo, III, '48  
Vernon Everett Putnam, '34, 5/23/92  
Rudolph B. Roessle, Jr., '41, 2/7/94

Leroy Herman Sallen, '50  
 Edwin Dean Simmons, '50, 7/3/92  
 Charles Robert Steward, '59, 2/18/93  
 Clifford A. VonHoene, '24, 6/17/90  
 Alexander Weremy, '41, 9/5/90

## PI

Edwin Lee Armentrout, '37, 6/24/93  
 Arthur William Benham, Jr., '39  
 Charles Franklin Bild, '39, 11/25/93  
 Harry B. Cowgill, Jr., '38  
 Thomas James Dickerson, '44, 9/0/87  
 Francis Alden Dunnington, '41, 3/13/73  
 Walter Leo Falk, Jr., '45  
 Don Abbott Gaddis, '43, 4/6/71  
 Robert Miller Garvin, '46, 2/3/51  
 James Snead Godsey, '30  
 William Andrew Green, '39, 5/23/74  
 William Frederick Kastelberg, '48  
 Douglas Kendall, '35  
 Bernard Jeremiah Kyle, '30, 10/9/93  
 Linwood Allen Lacy, '45, 4/1/94  
 Robert E. Lee, Jr., '29, 5/78  
 Wendell Endicott Malbon, '40, 9/9/93  
 Wayne Thomas Marshall, '52, 7/2/92  
 J. Curran McGhee, '35, 8/14/92  
 Theodore Thomas Patterson, Jr., '45, 9/12/93  
 George F. White, Jr., '36, 3/7/93  
 Claude Mallong Wilkinson, '30, 7/13/90

## RHO

Wiley Gupton Broughton, Jr., '69, 3/17/93  
 Elmer Randolph Commander, '23  
 (Charter Member)  
 Judd Henry Douthitt, '30, 12/1/91  
 Albert Homer Evans, '33, 10/25/93  
 John Temple Geoghegan, '31  
 James Burton Hathaway, '41, 9/23/92  
 Charles Edwards Hibbard, '29, 8/5/93  
 Frank H. Meece, '30, 3/7/93  
 Daniel McLeod Smith, '66, 1/25/93  
 Paul Eli Stout, '42, 6/11/93  
 Augustus Latham Tanfield, '29, 9/9/93  
 James Earl Williams, '26, 2/1/94

## SIGMA

Raymond Quinton Armington, '28  
 Russell W. Bartholomew, '46, 7/14/93  
 John Robert Boig, '58, 11/21/91  
 Mortimer Pierce Buck, '32, 9/26/93  
 Joseph Frederick Craig, '36, 3/27/94

Fred William Gilchrist, '30  
 Arden Roy Hacker, '35

## TAU

Kenneth Sloat Graves, '26, 6/29/93  
 (Charter Member)  
 Marshall Cloyd Koup, '41  
 Frank Joseph Salmon, '35, 8/12/93  
 Ronald Luther Wiggins, '38, 1/25/94

## UPSILON

Leland Waddell Brown, '49, 5/8/90  
 Robert Richard Chase, '35, 1/9/89  
 Thomas Harrison Cogburn, '70, 2/15/91  
 William Madison Gordon, '31  
 John Atkins Hall, '40  
 Samuel Robert Kennedy, '48, 1/17/94  
 Heydon Zane Lewis, '57, 3/19/91  
 Claudius Russell McCauley, '33  
 Donald Lee Mehlburger, '59, 7/24/92  
 Robert Rutherford Milner, '38  
 Ira Vernon Parsons, '51, 9/24/92  
 Hugh Franklin Robinson, '43, 3/18/94  
 George Laurens Sansbury, '37, 3/8/94  
 William Samuel Stewart, '55, 9/23/93  
 William McGrew Turner, '55, 11/21/93

## PHI

Thomas William Dane, '65  
 Louis S. Divan, '29, (Charter Member)  
 Raymond Eugene Hanning, '33, 7/6/93  
 George Lowell Jackson, '26, 9/4/93  
 Byron Robert Schubert, '72, 1/5/93  
 Frank Walton Scott, '25, 12/1/87  
 William Richard Seitz, '67, 12/21/91

## CHI

Thomas Ward Holmes, '42, 6/25/93  
 Fred Ross Smith, III, '60, 8/2/91  
 Leon Hicks Tolleson, '53  
 Keith Hartzell Williams, '59, 3/90

## PSI

John Arnold Alley, '36, 3/4/94  
 Terrence J. Angove, '68  
 Marion Sumner Davenport, '50  
 Emmet Michael Gilmore, '44  
 Walter Arlee Hamilton, '34, 8/20/93  
 (Charter Member)

William Murray Hand, '48, 2/24/94  
 Willard Leskela, '43  
 Donald William Levandowski, '48, 4/8/94  
 Charles Joseph Lyden, '40, 3/19/91  
 Donald Ernest Majer, '41  
 Jack W. F. Nordquist, '45, 8/20/93  
 Frank James Vorell, '51  
 George Daniel Winans, '41

## OMEGA

Donald Neil Anderson, '52  
 Vern Edward Atwater, '40  
 Elmer Emanuel Bierwagen, '53  
 Ivan Lewis Boe, '51  
 Otis Balou Fenner, '39, 11/8/93  
 Elmer Dale Jurens, '50  
 Armand Roy Mogck, '47  
 Charles Wilbur Rand, '40  
 Joseph Francis Shea, '51  
 Gerald Charles Smith, '55  
 Joseph Francis Smith, '51  
 Melvin Roy Smith, '57, 10/30/93  
 Joseph C. Pencer, Jr., '57  
 Harvey Walter Taylor, '49, 11/17/92  
 Darrell Lavere Woodie, '42  
 Merlyn Guy Woodie, '39

## GAMMA BETA

Robert William Beatty, '39, 11/25/93

## ETA BETA

Joseph Albus Hedding, Jr., '61, 4/7/92  
 (Charter Member)

## LAMBDA BETA

Jack Steven Goldenberg, '71, 10/24/93  
 (Charter Member)



From: Robert E. Pope, Grand Scribe

Official notice is hereby given that the following individuals are no longer members of Theta Tau. Each member should take due notice thereof and govern himself accordingly.

Shane Edward Creel, Kappa Beta 469  
 Charles Stuart Everett, Kappa Beta 457  
 Jill Christine Janssen, Sigma Beta 36  
 Julie Mae Meyer, Sigma Beta 43

## BEQUESTS BENEFIT FRATERNITY

The Fraternity is very grateful to our late Brother **Harry E. Ashmead**, Sigma '29, who provided in his will for significant bequests to the national Fraternity and to his chapter's house corporation. Others providing for the national Fraternity in their wills probated in recent years have been **J. Harold Link**, Gamma Beta '40, a charter member of his chapter; and **Nick Trbovich**, Phi '37, a former member of the Executive Council.

When such bequests become a part of the invested funds of the Fraternity, they serve to provide income for Theta Tau in perpetuity. Current annual gifts from alumni are essential to our Fraternity's continued success. By also remembering the Fraternity in his will, a member may continue contributing to Theta Tau even beyond his own lifetime. In this way, a brother helps to perpetuate the entire Fraternity as well as his own chapter.

The Fraternity is also grateful to those making bequests to their chapters' house corporations.

## AVAILABLE FOR EMPLOYMENT

As a service to members seeking employment or a change in employment, this space is being provided experimentally. Contact the Central Office if you would like to be listed in this column in the Fall, 1994 issue, deadline September 15.

**Civil Engineer.** I recently earned my Bachelor of Science degree. The course load generally emphasized both structural and environmental analysis and design. I am hoping to get a position in the environmental field and would prefer to work anywhere on the east coast. Jeff Sloman, 7 Helper Court, Chestnut Ridge, NY 10977. (914)356-6918.

**Civil/Environmental Engineer.** Currently in second semester of graduate school. MS in Environmental Engineering December, 1994. Seeking engineering position. Professional experience for 15 months with TVA. Interests: groundwater, industrial waste, conventional and natural water treatment systems. Computer literate. Prefer southeast U.S. or Atlantic coast states. J. S. Lovegrove, 1841 North Dixie, Apt. 10, Cookeville, TN 38501. (615)520-0772.

**Engineering Librarian.** Professional librarian position with an engineering firm sought. Master of Library Science, 1993, Emporia State University. BS in Mechanical Engineering, 1988,

University of Kansas. EIT certified. Engineering experience: McDermott, Inc., supervisory duties, completed catalogs, maintained a documents file for an offshore oil platform project. Morton Salt, various projects each including fund request. Computer experience: Spread sheets - Symphony; Word processing; Database - dBASE III; Information retrieval - DIALOG and Internet; Languages - BASIC and FORTRAN. Respond to: S94D, Theta Tau Central Office, 655 Craig Road, Suite 128, St. Louis, MO 63141-7168.

**General Engineering.** BS South Dakota School of Mines; graduate study, applied mechanics, University of London; graduate with honors, U.S. Army Command and General Staff College. Mechanical Engineering Product Development, Liaison and Procurement, and Stress Analysis. Respond to: S94C, Theta Tau Central Office, 655 Craig Road, Suite 128, St. Louis, MO 63141-7168.

**Management Information Systems.** Graduate of Clarkson University with a BS in Management Information Systems seeking a position in industry or consulting with computer systems or local area networks. I am a Certified Network Administrator in NetWare 3.X through Novell. Respond to Mark E. Hamilton, 5 Rosebrier Avenue, Massena, New York 13662. Email: hamiltme@craft.camp.clarkson.edu.

**Mechanical Engineer.** I earned a BS in Mechanical Engineering and a BA in General Studies - English, French, and History - and passed the Engineer in Training exam, but do not feel restricted to technical positions. I am interested in international assignments. Experience in software, programming, communications, writing, and working abroad. Carl A. Shelley, 3142 W. Avenida Cresta, Tucson, AZ 85745, (602) 743-3969, Fax: (602) 624-3001.

**Mechanical Engineer.** BS University of Iowa, MS California Institute of Technology, June, 1994. Interested in entry level structural analysis or project engineering position preferably in the Midwest. Eventually will obtain MBA and desire potential for movement into management. Technical skills, communication, teamwork, and leadership are considered personal strengths. Respond to: S94A, Theta Tau Central Office, 655 Craig Road, Suite 128, St. Louis, MO 63141-7168.

**Software Engineer.** I am seeking a position as a software engineer, anywhere in southeastern U.S., that does not require travel. I have a BS in Computer Science and nine months experience as a Unix network administrator. Additional experience includes help-desk work, expert system design, and data-base design. Respond to: S94B, Theta Tau Central Office, 655 Craig Road, Suite 128, St. Louis, MO 63141-7168.



## Theta Tau

Professional Engineering Fraternity  
655 Craig Road, Suite 128  
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