

# Journal of Tau Alpha Pi

Volume XV, 1991

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# Journal of Tau Alpha Pi

Executive Director  
Editor

Frederick J. Berger

Tau Alpha Pi Journal is the official publication of Tau Alpha Pi, National Honor Society of Engineering Technologies. Write Professor Frederick J. Berger (Executive Director), Editor, P.O. Box 266, Riverdale, New York 10471. The opinions expressed are those of contributors and do not necessarily reflect those of the editorial staff of Tau Alpha Pi. Copyright © 1991 by Tau Alpha Pi National Honor Society Engineering Technologies.

## STATEMENT FROM THE EXECUTIVE DIRECTOR-SECRETARY

The 1991 Tau Alpha Pi *Journal* will soon be distributed. As in the past, it will contain articles of interest, chapter news, and a directory of active chapters. In order to have accurate and recent information, we ask chapters to forward news of their initiations, names of officers, and a summary of activities to be included in this annual publication. Please be certain to complete and return the chapter news form. Items of news and articles should reach me no later than June 1. Pictures should be clear, and those persons in the pictures should be identified. The inclusion of chapter news is very important for the chapters, the institutions, and the students so that they may be recognized nationally. If I receive copies of keynote speeches delivered at initiations, it may be possible to reprint some or excerpt from them. Correspondence should be sent to me at P.O. Box 266, Riverdale, New York 10471. I may be reached by phone at 212-884-4162.

Much correspondence that comes to me consists of requests for certificates and keys. Please allow sufficient time, about three weeks in advance of initiation dates, for preparation and mailing. Include the addresses and, if possible, the phone numbers of initiates when ordering their certificates and keys and, of course, the specific date of the initiation.

For those readers especially who may be seeing the *Journal* for the first time I should indicate that Tau Alpha Pi is the national honor society for engineering technologies, as Phi Beta Kappa is for liberal arts, and Tau Beta Pi for engineering science. Tau Alpha Pi may elect to membership the highest 4% of an institution's total engineering-technology enrollment in a given term. A chapter should keep in touch with its graduates and also seek out for possible alumni membership those alumni who did not have the opportunity to be considered for membership. Tau Alpha Pi is not centralized as are Phi Beta Kappa and Tau Beta Pi, and, unlike the other two, it is open to both associate-degree and baccalaureate candidates. Although chapters are autonomous, they operate in a manner consistent with the letter and spirit of the umbrella constitution, and they follow official procedures. Their activities and projects must be appropriate for an honor society. Any monies raised must be for chapter use or for a worthy cause that the chapter endorses in conjunction with its institution. My office



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is unsalaried and does not accept monetary contributions. As an honor society, Tau Alpha Pi aims to recognize and inspire excellence in scholarship, nobility of character, and qualities of leadership. Tau Alpha Pi is not a club. I ask chapters to check their institutions' catalogues to be sure that Tau Alpha Pi is correctly indicated as an honor society.

The preparation of the key-monument, which is an exact enlargement of the one-inch key, has been an ongoing project. For the sake of uniformity and accuracy, I again ask chapters that are planning the key-monument or plaque to obtain my approval of their specifications. My concern is with the dimensions and faithfulness of the reproduction.

Neither Tau Alpha Pi nor I as its executive director can be responsible for the choice of materials, workmanship, or safety factors in the construction and installation of the key-monument or plaque.

The contribution of faculty advisers cannot be overstated. They guide and inspire and assist students to become scholastic achievers. They give of their time and wisdom most generously. They are, in fact, role models for students to emulate. To those advisers who have served and continue to serve, I say thanks and best wishes.

In the course of a year, some advisers leave. To those, I want to express my gratitude for past service and offer my best wishes: Professor Vincent Spigliano (Beta Gamma), Professor Robert L. Reid (Beta Theta), Professor James T. Vize (Beta Kappa), Professor Chittaranjan Sahay (Beta Pi), Dr. Edward J. Harrison and Professor Philip F. Alesso (Beta Xi), Professor Barry Brey (Gamma Epsilon), Professor Jennifer J. Streeter (Gamma Zeta), Professor Wesley D. Bash (Gamma Iota), Dr. Fred Sutton and Professor Kathy Hathaway (Gamma Upsilon), Dr. Michael C. Mazzola, Dr. Murray Shapiro, and Professor Alan Siegel (Delta Gamma), Dr. Dean J. Schmidlin, Dr. John W. Hansberry, and Professor Fryderyk E. Gorczyca (Delta Delta), Dr. Russell E. Puckett, Professor George B. Wright, and Professor Albert B. Grubbs, Jr. (Zeta Gamma), Professor Catherine Ferman (Eta Beta), Professor Drew Landman (Theta Beta), Professor Howard T. Medoff (Iota Gamma), Professor John B. Saliman (Mu Alpha), Professor George W. Bruce (Mu Gamma), Professor Rene Mulders and Dr. John P. Mattei (Xi Beta), Professor Joseph Kopf (Omicron Alpha), Professor William E. Barnes (Omicron Zeta), Professor William K. Dalton (Pi Alpha), Professor W. Robert Wonkka (Chi Alpha), Professor Neal F. Jackson (Psi Alpha), Prof. Barbara Powell and Prof. George Alexander (Omega Alpha), Dr. Joseph R. Jenkins and Professor Harvey L. Robinson (Beta Alabama), Dr. Steven Nesbit (Alpha Kentucky), Dr. Raymond F. Neathery (Alpha Oklahoma).

Those advisers who have recently accepted this responsibility have my warm welcome and good wishes for success: Dean David Z. Winters and Professor Jeff Humble (Gamma Lambda), Professor Albert Lehner (Delta Gamma), Professor Behbood Z. S. Midturi and Dr. John Mayer (Zeta Gamma), Professor Paul C. Lunsford (Eta Alpha), Professor George Webb (Eta Beta), Dr. George W. DeSain and Professor Kenneth Ayala (Eta Delta), Professor John R. Hackworth

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(Theta Beta), Professor Edward Darlington, Jr. (Iota Gamma), Professor Bob English and Professor William E. Barnes (Omicron Alpha), Professor Vernon Hillsman (Pi Alpha), Professor Leon David Rovin (Psi Alpha), Prof. Paul Ricketts and Prof. Tom Jenkins (Omega Alpha), Professor James Darnell (Alpha Arkansas), Dr. Don Adams (Alpha Oklahoma).

At the risk of being repetitive, I urge chapters to have more than one faculty adviser so as to ensure continuity and greater familiarity with student performance in the various engineering-technology disciplines.

Many thanks, also, to Dr. Lillian Gottesman for her able assistance with this *Journal*.

In addition to expressing gratitude, Tau Alpha Pi does in special instances present a meritorious award to individuals who have served for many years and contributed significantly to the goals of the Society. During 1990-1991 I bestowed this honor upon Dean Robert L. Reid (Beta Theta) on January 31, 1991; Professor W. Robert Wonkka (Chi Alpha) on May 5, 1991; Professor R. Eugene Nix (Pi Alpha) on May 15, 1991; and Dr. George DeSain (Eta Delta) on April 19, 1991.

During the 1990-1991 academic year, three chapters were chartered: Gamma Lambda (Shawnee State University); Eta Delta (Western Carolina University); and Eta Alpha (Gaston College), which had been dropped for inactivity and then re-applied for a charter. I was privileged to attend the chartering ceremonies of Gamma Lambda on April 27, 1991, and of Eta Delta on April 19, 1991. I wish to thank Professor Paul C. Lunsford for representing me at the chartering (re-activation) of Eta Alpha.

Occasionally in my voluminous correspondence there are letters that are very gratifying. Among them were the

following:

The Honorable Governor Mario Cuomo (New York) wrote on December 10, 1990:

National honor societies, such as Tau Alpha Pi, encourage our young to pursue excellence and represent hope for the future. I appreciate the opportunity to lend my support to help advance your objective to foster leadership and nobility of character in our young. From your ranks will emerge our next generation of technologists who will bring added value to their lives and to the social and economic well-being of others.

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Dean Robert H. Reid (Broome Community College) wrote on February 21, 1991: As I have said, Fred, your creation of Tau Alpha Pi was one of greatest happenings in E.T. history. Mrs. Kathleen A. Dillon (President, Gamma Lambda) wrote on May 6, 1991: Each member appreciates the uniqueness of our ceremony/dinner, made by your presence, and is truly grateful to you for the time you took to honor the evening with us. Your words of wisdom will stay in our minds for years and will continue to motivate our efforts towards excellence in our careers.

Pi Epsilon (University of Southern Indiana) wrote: As you can see, we have a larger number of members at this time. This is partly due to your suggested change which was responsible for the significant increase.

Dr. Donald A. Cain (Director, Arkansas State University -Beebe) wrote on September 24, 1991:

We are very happy to have the Tau Alpha Pi National Honor Society available to our students. It is an encouragement for them to be able to gain this honor in their chosen fields. Thank you very much for your continued support and leadership of Tau Alpha Pi.

One function other than initiations that I attended was the inauguration on April 5, 1991 of President John Francis Van Domelen of Wentworth Institute of Technology, Boston.

**Executive Director Frederick J. Berger (right) presents a copy of the *Journal* to President Van Domelen.**



From time to time in my travels I am asked to distinguish between engineering science and engineering technology. It may be helpful to note the observations made in Educational Issues of Importance to the Engineering Technology Council (ETC) of the ASEE:

“Engineering” is the profession in which a knowledge of advanced mathematical and natural sciences gained by higher education, experience, and practice is devoted to the creation of new technology for the benefit of humanity. Engineering education for the professional focuses primarily on the conceptual and theoretical aspects of science and engineering aimed at preparing graduates for the practice of engineering closest to the research, development, and conceptual design functions.

“Engineering Technology” is the profession in which a knowledge of the applied mathematical and natural science gained by higher education, experience, and practice is devoted to application of engineering principles and the implementations of technological advances for the benefit of humanity. Engineering Technology education for the professional focuses primarily on analyzing, applying, implementing and improving existing technologies and is aimed at preparing graduates for the practice of engineering closest to the product improvement, manufacturing, and engineering operational functions.

As we prepare to go to press, I have received an invitation from Professor Joan Begolly, faculty adviser to Iota Beta chapter (New Kensington Campus), and the chapter officers to attend the ceremonies on October 16, 1991, dedicating the Tau Alpha Pi key-monument.

If there is one development that is a highlight in my career as the founding executive director, it is the establishment by ASEE of the Dr. Frederick J. Berger Award. This annual award, substantially endowed, will not only recognize excellence, but perpetuate the principles of Tau Alpha Pi. In the centerfold of this *Journal* you can see the medallion which is presented to the recipient and the plaque which is given to his or her institution. For the design of the plaque I thank ASEE and Dr. Stephen R. Cheshier. For the design of the medal I thank ASEE and the Engineering Technology Council. As for me, I shall continue to strive to serve Tau Alpha Pi, the engineering-technology profession, the society in which we live, and our country because I believe that the future of our democratic way of life depends upon excellence in scholarship, character, and leadership.

Howe'er it be, [wrote Tennyson] it seems to me,  
Tis only noble to be good.

Frederick J. Berger, D.Sc.  
Executive Director

## CAREERS IN THE INFORMATION AGE

Telecommunications and computers have altered the fabric of modern business and have developed into complex, integrated information systems. The world-wide incorporation of information systems and technology into business has increased the need for compatibility among the networks. Although network standards and architectures are crucial elements, polarization within the global telecommunications arena projected technological issues into trade and economics.

Diverse technologies such as local area networks, digital private branch exchanges, imaging, and cellular/personal communications have become the intricate fabric of modern business communications systems and networks. While voice and data Integration remains a challenge the advent of digital transmission and of switching and associated technologies has made integration a reality. As a result of this dependence on information systems and technology, there is a need for highly trained information professionals.

Many universities and colleges are responding to this need by adding courses in telecommunications, policy, data communication, and computer networks as options or as part of degree programs that range from the associate to the doctoral level. Some programs concentrate on a discipline such as engineering, engineering technology, computer science, journalism/mass media, or policy studies.

The telecommunications industry has grown remarkably since the divestiture in 1984 of the American Telegraph and Telephone companies. Careers have opened. Students in electrical, manufacturing, or computer-engineering programs should, therefore, be encouraged to prepare for these careers. Students can acquire the necessary education

by taking courses in communications, fiber optics, electronic optic devices, digital signal processing, imaging, microwaves, transmission lines, telecommunications, policy, and computer networks. In addition, professionals from industry can be invited to address students on the new technologies. Through courses and lectures, students can develop careers in these fields. It should be noted, also, that some institutions offer these courses in a variety of formats, such as distance learning, television, and the traditional evening classes.

Those students who are completing their studies and plan to work in the information age industries are encouraged to stay abreast by attending seminars, participating in meetings of professional societies, and reading relevant publications.

Carol A. Richardson  
Associate Professor  
Coordinator, Telecommunications Technology  
Rochester Institute of Technology

## **AMERICA'S YOUTH . OUR VITAL RESOURCE**

From Beijing to Berlin unprecedented world changes in technology, travel, communications, and the success of enterprise economics as manifested in America have created a hunger for freedom that will not be denied. While walls are down, it's visibly apparent that freedom and peace anywhere do not come without sacrifice and leadership. Our own nation, still proud of past military victories, technological achievement, and material possession is awakening to find our technical and economic world leadership challenged. Basic American institutions, including education, are not measuring up to today's needs.

Parents, business people, and leaders are asking how can U.S. students test ninth in math scores in worldwide competition if we expect America to be a leader in economics, productivity, and today's world commerce? How can today's U.S. lagging foreign language competence and often short-on-history-and-geography-knowledge compete globally?

As we near the beginning of a new century, a new era in the world, our goal for our students through a unique education process –is to gain knowledge, self respect, strong basic values, citizenship, global consciousness, personal dignity, productive employment, entrepreneurship, spirit, leadership, and competitiveness. Throughout history, education has helped man move out from the cave. Today the force of education will determine the future of humankind. At MSOE and, hopefully, in the U.S., there can be a powerful, unique arrangement between education and business. All too little of elementary, high school, and even higher U.S. education is in step with the realities of today's powerful, knowledge-driven, competitive age. The consequence is a high school graduation rate of only 70 percent vs. 90-plus percent for Japan and U.S. college graduates with degrees who are not work ready or, too often, who have anti-business attitudes.

At MSOE we are committed to preparing young people to accept –and strive for –high values that include a solid work ethic, business ethics, high personal standards, willingness to help others, leading in business and community affairs, and role modeling personal values for others to see and follow. We see enterprise economics and business as forces serving people, creating jobs, and helping advance human progress. We work together with business and industry to achieve our mutual goals. Faculty have academic credentials, classroom excellence, as well as business experience. Industrial advisory committees work with faculty on curriculum. This philosophy of realism could be the driving force to improve America through the right education!

History has proved that the single best investment of a lifetime, added to a sound family life, is education. Never has this simple statement been so meaningful for so many people. Well-meaning people call for more social services – more for the homeless, more for the hungry. It must first be

understood that productivity must precede distribution. I retain vivid pictures from America's Great Depression as well as my State Department travels in the Third World – hunger, poverty, strife, illiteracy, bondage, little education, and lack of leadership.

Today we have only to look around America to see what happens when education is working and, conversely, when education is not taken seriously. As a developing nation, and even until the last decades, there always were jobs in U.S. agriculture and industry for those who had little or no education

plenty of menial tasks ...back work we called it. But many of those jobs have disappeared because of demanding global competition, cost-efficient automation, or new technology. Today's most menial tasks require more knowledge, skills, work-oriented attitude, self-discipline, and initiatives than life required yesterday or than social planners would prescribe. Even the U.S. military, once a refuge for dropouts, today requires high school certification as a minimum acknowledgement of education's importance. A recent tour of U.S. military sites convinced me of the high overall mental and physical qualifications of our officer corps and enlisted personnel. The services' teaching of discipline, personal pride, skills, citizenship, is needed nationally. The inadequacy of America's general and business education is evident in our civilian world, in the shifting of U.S. export/import balances and loss of world leadership in the manufacture of television sets, watches, cameras, automobiles, even certain high-tech components. Simultaneously, we have experienced a growing burden of national social services that adds to our national deficits and annual budget losses.

Rediscovery of the family and improved education are key for America. Continuing lifelong education is necessary to combat obsolescence that results from rapid technology development and global challenges. Enlightened companies, large and small, are planning –and budgeting for –employee continuing education. Human improvement now shares the spotlight with capital improvement. At MSOE we learn from recruiters and corporate officers of the hundreds of firms employing our graduates that they are also deeply conscious of the need to have fresh technology concepts and youthful ambition enter their workplace.

The triangle of industrial strength in continuing education is the individual, the corporation, and the institution of higher/continuing education. Each must be prepared to excel in developing and delivering the resources needed to propel individual employees beyond the point of mediocrity and static knowledge into the arena of dynamic thinking and worldwide competitive standing. It's commonplace today for families to modify their life-styles, to sacrifice a vacation, a second home, a new boat or even some personal togetherness –and to adjust their budgets and priorities –so one or more members may continually upgrade their education and link up with global realities.

I see thousands of dedicated MSOE undergraduates and continuing education students preparing well for the ever-changing challenges. Career opportunities are theirs. As individuals prosper, so do their companies and so will our nation. With U.S. success, we will be better able to bring to the world greater opportunities for more people to speak and act freely, to choose their areas of study and life patterns, and to help other nations to meet their own needs.

Freedom is a precious possession and it demands ongoing sacrifice, responsibility, and effort. Today it also demands leadership. Such efforts are a true commitment to the dignity of humankind. People who learn, grow and work in their own businesses or as employees will be world competitors and leaders.

In a true republic, or an American-style democracy, it's the individual who must accept responsibility for the future. Yes, this is a world in rapid change, a moment of great opportunity for each of us. Will America compete in the economic world war? Can we contribute in an international arena where some countries and some of the players are greatly motivated ...where citizens have discovered the power of freedom after decades of Communist slavery? Yes, we can contribute substantially because America understands the price of freedom as well as the price of failure, and we are a nation steeped in a tradition of working, of being free, and of winning.

Robert R. Spitzer, President

Milwaukee School of Engineering (MSOE)

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# MEETING THE NEEDS OF A PRODUCTION SOCIETY A MASTER OF TECHNOLOGY DEGREE

America's productivity decline in the second half of the 1980's can be traced to the lack of appropriate planning by American industrial leaders. The rate of technological change that took place outstripped the ability of planners and politicians in both industry and government accurately to predict and cope with the explosive change. The approaches that normally used to convert "hightechnology" knowledge into efficiently produced consumer goods have not worked well. The need for persons with broad based technical knowledge and an applied technological perspective has become more evident because of the changing nature of manufacturing requirements.

Lester C. Thurow, Dean of the Sloan School of Management at MIT, stated:  
"In the United States, production is not the route to the top. In most American industry process engineering and production have become a dumping grounds." Fortune Magazine asked some CEO's, "What's the route to the top?" Thirty-four percent said marketing, 25% said finance, 24% said general management, and only 5% said production.

There must be new responses to the increasing level of production complexity. There must be new approaches to the way we value and reward expertise and creativity of persons with technical knowledge and special skills that increase our ability to improve productivity.

The School of Construction and Technology of the College of Engineering and Applied Sciences at Arizona State University offers a Master of Technology (M.Tech) degree program. The primary focus of the program is on practice-oriented applications of existing or state-of-the-art technological principles, methods, and devices associated with production. Production includes product definition and/or design, production planning, and fabrication. The goal of the degree program is to provide well qualified persons with the opportunity to acquire the specific technological depth to solve state-of-the-art industrial problems within disciplinary boundaries.

The program has been structured to provide sufficient flexibility to permit the student to select a combination of courses in a technical concentration and supporting area to meet individual career goals. The required research and applied project provide the student the opportunity to develop special applied research and application skills directly related to solutions to practical problems and individual needs and objectives. The student may select any of the following areas of concentration offered by the three departments' programs of study:

(1) Aeronautical Technology, (2) Electronics and Computer Technology, (3) Manufacturing and Industrial Technology.

To be considered for regular admission applicants are required to have an earned baccalaureate degree with a 3.00 grade point average. Graduate work presupposes an adequate technical preparation in a selected technology at the undergraduate level. The baccalaureate degree program of study must have included a minimum of 30 semester hours in the technology and a minimum of 16 semester hours of physical science and mathematics courses appropriate to the selected concentration to be pursued. Academic deficiencies, if any, will be specified at the time of admission. Specific requirements vary within each department.

Master of Technology degree candidates find a broad range of applied research project activities available to support their interests. Faculty research interests are concentrated on, but not limited to, applied engineering, industrial production, management and operations, and teaching and learning of technological material in a broad range of settings. Students are required to demonstrate their knowledge and skill in the solution of state-of-the-art industrial and technological problems through the completion of a supervised applied project.

Since 1980 the total number of applicants to the Master of Technology program has more than doubled. In that same period the number graduating annually has grown from 8 to 55. Currently there are about 230 applicants



annually who seek admission to the program. Approximately 57% of those who apply are regularly admitted. The Fall Semester of 1990 total enrollment was 140. The distribution of the students among the three departments was 22 in Aeronautical Technology, 45 in Electronics and Computer Technology, and 73 in Manufacturing and Industrial Technology. Approximately 70% of the students are graduates of engineering technology or industrial technology programs. Graduates of traditional engineering degree programs constitute about 25% and the remaining 5% are accepted from the sciences, such as chemistry and physics. As in many graduate programs around the country a large percentage of the students are non-citizens.

Master of Technology degree holders have assumed very responsible positions in industry, government, and education. About half of the non-citizen graduates return to their home country to assume similar positions as their American counterparts. The number of women and minorities entering and graduating from the program has been a very small percentage of the total. Those who have are among the most successful of program graduates.

Albert L. Mc Henry, Ph.D.  
Professor and Chairman  
Electronics and Computer Technology

Edited and excerpted.

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**Tau Alpha Pi**

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## **THE RENOVATION OF THE TAU ALPHA PI KEY-MONUMENT**

In 1979 the Upsilon Beta chapter of Tau Alpha Pi was established at Arizona State University (ASU). In 1982 the members decided that the chapter should have a key-monument located, in the Engineering Technology complex at ASU. Figure 1 shows Dr. Frederick J. Berger, executive director of Tau Alpha Pi, and a new initiate standing next to the key at the dedication ceremony in the spring of 1983. Using the dimensions as prescribed by the National Headquarters, the gear was constructed from sheet steel with the letters and dividers cut from steel plate. The gear was copper plated and the letters and divider were brass plated. Copper plating was chosen to give the gear an antique effect and to act as a background for the highly polished letters and the divider. Most of the construction was under the direction of the Upsilon Beta chapter members in the Department of Manufacturing Engineering Technology.

For the next seven years the key was located on the perimeter of the Technology Complex. As time showed, its location was not the wisest choice for two reasons. First, the key was mounted on a short pedestal that exposed the key to the hot Arizona sun and the water from the lawn sprinklers. This combination created a corrosive effect on the copper and brass. Second, because the key was located in an area where most of the engineering-technology students could pass it without paying much attention, new initiates had to be told about the location of the key.

By 1987, the chapter decided that the copper plating on the gear would be left to the elements to produce a dark background for the letters and divider. Results were rather encouraging as shown in Figure 2. However, time, sun, and water took their toll. The brass plating was very thin and each time it was polished, more of the base chrome plating was exposed. The chapter knew the key-monument's days were numbered and something had to be done to improve its appearance.

Two years later, the chapter was notified about the future construction of the Barry M. Goldwater Science and Engineering Center at ASU. The key-monument had to be relocated to make way for the material staging area for the center. During 1990, the chapter searched for a new location for the key-monument. Because of the two shortcomings previously mentioned, the chapter spent approximately six months studying various locations. After some deliberations, the chapter decided that the key-monument should be located in a shaded area of the courtyard between the two technology buildings. This site would be easily seen by the engineering-technology students.

To eliminate the corrosive action of the water from lawn sprinklers, the chapter decided to mount the key on a taller support post. In order to compensate for the increase in the key height, a large boulder was secured through the

efforts of the grounds personnel at ASU. Luckily, the boulder had a 3-inch-diameter drilled hole where the dynamite charge had passed through when the rock was originally removed from a butte at ASU. This was perfect for the support base to pass through.

It was time to renovate the key-monument before moving it to its new site. After a preliminary test, it was determined that the copper plating on the gear was in good condition and a careful cleaning of the copper oxide would produce a burnished effect. The letters, divider, and key base were replated along with the extended base support. The results are shown in Figure 3. The chapter plans to have a brass plaque mounted on the rock with the following inscription:

### **Tau Alpha P1**

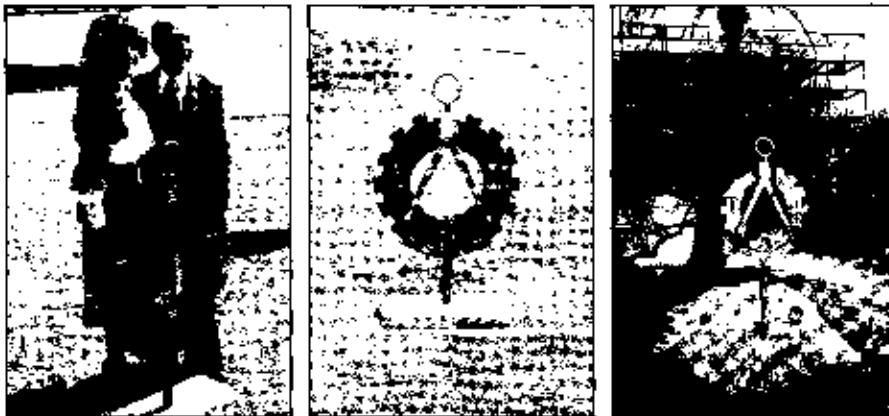
### **Engineering Technology**

### **ASU**

This key-monument is a source of great pride to the present and past members of Upsilon Beta chapter and serves as an inspiration for all engineering-technology students to excel in their chosen fields of study so that they may be elected to Tau Alpha Fi membership.

Kyle L. Freeman, President  
Joseph Tomasic, Secretary-Treasurer  
James E. Maisel, Adviser  
Upsilon Beta Chapter

Figure 1  
Figure 2  
Figure 3



## **BERGER AWARD HIGHLIGHT OF ASEE ANNUAL MEETING**

A highlight of the 98th annual meeting of the American Society for Engineering Education held recently in New Orleans was the first presentation of the Frederick J. Berger Award for Excellence in Engineering Technology Education.

This national ASEE award was established for the purpose of recognizing and encouraging both programmatic and individual excellence in engineering-technology education. It will be presented annually to both the engineering-technology school or department and to the primary implementing individual that have demonstrated outstanding leadership in curriculum, scholarly contributions, innovative techniques, or administration in engineering-technology education. The award carries a \$1000 stipend, an engraved plaque, and a beautiful bronze medallion with the likeness of Dr. Berger and the Tau Alpha Pi emblem on its obverse, and the ASEE name and logo, along with the recipient's information, on the reverse.

In New Orleans, the award was presented as the focal point of the Engineering Technology Council's "Frederick J. Berger Award Luncheon." I, as the ETC Chair, commended Dr. Berger for his many years of tireless service in support of Tau Alpha Pi and engineering technology. I noted that Dr. Berger had single-handedly built Tau Alpha Pi as its founding Executive Director from a handful of chapters to its present status with over 130 chapters nationally. Tau Alpha Pi is today recognized as one of the largest and most selective of all honor societies. I further noted that these contributions were made mostly with Dr. Berger's personal resources, so that the Society's expenses could be kept at a reasonable level. I further commented that Dr. Berger was an especially fitting role model for recipients of the award to follow, in that he has devoted his life to scholarship and excellence in engineering-technology education. During his many years at City University of New York (BCC), he was acclaimed from many sources for his outstanding contributions to education and for his professional accomplishments –not the least of which is his work with Tau Alpha Pi.

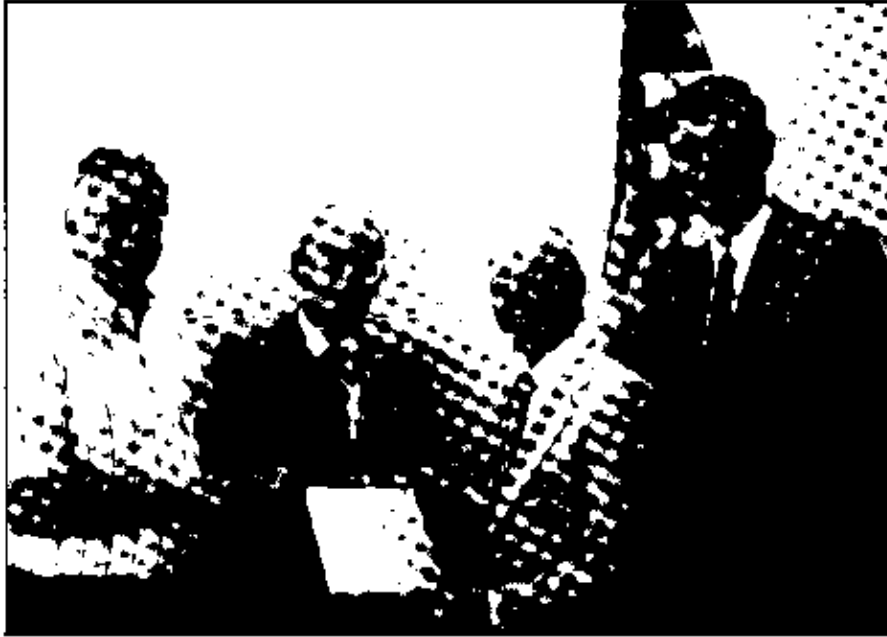
Then I introduced this year's Berger Award committee Chair, Earl Gottsman, VP of Academic Affairs at Capitol College, to ask Dr. Berger to present the award. Dr. Berger made some excellent remarks about the purposes of the award, as well as the lofty goals of Tau Alpha Pi. He then talked about the importance of the technologies to our country, the need to keep our educational programs current, and the importance of excellence, scholarship, and hard work among our students to help our country regain its world leadership role. After his remarks, he presented this year's Frederick J. Berger award to Dr. Frederick W. Emshousen of Purdue University. Dr. Emshousen graciously accepted the award, acknowledging the many contributions of his colleagues in Mechanical Engineering Technology at Purdue. An appreciative audience of over 70 engineering-technology leaders from around the country witnessed the ceremony.

The award was again formally presented at the ASEE's society-wide award's banquet the following night. Dr. Emshousen was presented the award by the ASEE President Curtis J. Tompkins, with about 500 university and college educators, including Dr. Berger, in attendance. Dr. Berger was also recognized as one of only a few Life Members in attendance, and also as a Fellow of the ASEE.

The Berger Award starts a wonderful tradition of recognizing deserving individuals within the engineering-technology community. Everyone associated with engineering-technology education is grateful to Dr. Berger for his contribution to engineering technology.

Stephen R. Cheshier  
Chairman, ETC of ASEE  
President, Southern College of Technology

Left to right: President Stephen R. Cheshier, Dean Frederick W. Emshousen, Jr., Dr. Frederick J. Berger, Vice-President Earl Gottsman.



## PRESENTATION OF FREDERICK J. BERGER AWARD

It is my privilege as the Executive Director of Tau Alpha Pi to present this first Frederick J. Berger Award to Fred W. Emshousen of Purdue University, West Lafayette. This award is presented in recognition of excellence in engineering technology and outstanding contribution to engineering-technology education by both the individual recipient and his or her department. Since this is the first occasion that this award is given, I might say a few words about its relationship to Tau Alpha Pi.

You know that Tau Alpha Pi as the National Honor Society for engineering technologies aims to recognize excellence in scholarship and to foster character and leadership qualities in its members. You also know the importance of the technologies to our society and country. Surely, the recent Gulf War proved that our technological superiority won the day and the war quickly and with minimal losses to the allied forces. Without sounding overly dramatic, I must emphasize that we as educators have to be role models; we have to establish and maintain updated and excellent programs in technology, and we must inspire students to achieve.

That is precisely why I have been doing and am doing the work of the founding Executive Director of Tau Alpha Pi and in a short time have built an honor society of over 130 chapters. That is why this Frederick J. Berger Award was established to inspire, to encourage, to recognize, and to keep viable the goals of Tau Alpha Pi.

Frederick J. Berger

**Dr. Frederick J. Berger** presenting plaque to **Dean Frederick W. Emshousen**.



## **THE FREDERICK J. BERGER AWARD RECIPIENT FRED W. EMSHOUSEN: A PROFILE**

During his 16 years on the mechanical engineering technology staff of Purdue University, Fred Emshousen has established a record of excellence in teaching, scholarship and professional service to his field. His leadership in the advancement of the professional status of engineering technology has been felt on both regional and national levels through his service to ASEE, ASME and TAC-ABET. Through his work, ASME has approved policies and procedures which include engineering technology educators as equal partners of mechanical engineering educators. ...He was active in acquiring ASME ... approval of the Ben Sparks medal, the first national technical society medal honoring an engineering technology educator. For 10 years he served as an ASME sponsored program evaluator for TAC-ABET and is now a commission member, responsible for chairing accreditation visits for ET programs.

During his years as an instructional faculty member, Dr. Emshousen developed and initiated five courses, with associated laboratory facilities for each, to support instruction in applications of thermal and fluid sciences. He also co-authored a laboratory text for instruction in the fundamentals of these applications. Through his efforts in designing laboratory equipment for the purpose of instruction and his development of support linkages with industry for donations of equipment, the MET department enjoys the most extensive energy systems teaching laboratories in the nation. These achievements were recognized through award of a National Science Foundation equipment grant to enhance the Solar Application laboratory he developed. As MET department head, Dr. Emshousen led and administered development of the curriculum and laboratory facilities for the new Computer Integrated Manufacturing Technology (CIMT) program.

In recent years, he has filled the positions of Assistant Dean and Associate Dean for Academic Affairs of the Purdue School of Technology. As Associate Dean, he directs the academic affairs of the school and also administers a system of nine campuses that serve place-bound students in the industrial cities of Indiana.

Dr. Emshousen has been active in the local Pi Alpha chapter of Tau Alpha Pi since 1976 and was faculty adviser from 1977 through 1985. As adviser he



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created two "Outstanding Faculty Teaching" awards which are given by the chapter to a faculty member in MET and EET annually. He also encouraged the successful establishment of two new chapters at Purdue Statewide Technology sites.

The Mechanical Engineering Technology department is a most fitting winner of the Frederick J. Berger award in recognition of its outstanding faculty, rigorous curriculum, nationally recognized excellent instructional laboratories, exemplary national reputation for high-quality programming, and the distinctive achievements of its graduates and faculty.

**Left to right: Dr. Frederick J. Berger, Mrs. Frederick Emshousen, Dean Frederick W. Emshousen, Jr.**  
Excerpted with permission from ASEE AWARDS BANQUET PROGRAM, 1991.



## CHAPTER NEWS

**ALPHA ALPHA** (Southern College of Technology): The chapter held initiation ceremonies on November 30, 1990, and on March 8, 1991. The annual spring banquet took place in May, 1991. One project this past year was the compilation of a resumé book to be used as a reference by the members. Officers: Chris Lawton (President); Yuling Guo (Vice-President); Sonya Moore (Secretary); Marvin Boyd (Treasurer).

**ALPHA BETA** (DeVry Institute of Technology, Atlanta): The chapter held its initiation and formal banquet on January 26, 1991. The chapter is still active in calling bingo at Americana Healthcare, a facility for the elderly. Members have continued to participate in orientation of new students every semester. They have continued to sponsor a Creative Writing Contest which allows technically oriented students to express themselves in a creative fashion. This past semester they enacted a Participation Point System allowing members to earn points for various activities. This system has certainly raised the awareness of members to remain actively involved with the chapter. Recently, they split the office of Secretary-Treasurer in effort to become more effective. Alpha Beta will continue to stress that Tau Alpha Pi members demonstrate desirable qualities of personality, intellect, and character. Officers (1990): Michael Deleon (President); Sean Yap Maxwell (Vice-President); Allen Reeves (Secretary-Treasurer); Mark Brown (Sergeant-at-Arms). Officers (1991): Sean Yap Maxwell (President); Allen Reeves (Vice-President); Angela Galloway (Treasurer); James [lans (Secretary); Mark Brown (Sergeant-at-Arms).

Left to right, front row: d Reich, Joel Sean Yap Lllace Marks, Angela Galloway. Second row: Jason Edwards, Kevin Valentino, Mark Brown, Mike Deleon. Third row: David Hall, Rita Crane, Steve Kuhiman, James Coyne, James Williams. Fourth row: Prof. John Blankenship (adviser), Joseph Chambley, Allen Reeves, Charles Long. Back row: James Hans, Christie Blankenship, Chet Janes, Jerry Walker.



Ronal Portillo Maxwell Webb

**ALPHA ZETA** (Savannah Tech): Although the chapter is fairly new, having been chartered on October 9, 1989, members have been active in various functions. They participated in Marketing Engineering Technology programs. The chapter president Jason W. Hamilton and Professor Ali Hosseini (adviser) and Dr. Bill Briley, honorary member, made a presentation about career opportunities in the Savannah area. Mr. Hamilton is a member also of the Electronic Engineering Technology Advisory Committee and participates in designing educational programs. On July 11, 1990, the chapter conducted orientation for engineering-technology students. The chapter president explained the importance of Tau Alpha Pi and encouraged students to strive for excellence. Officers: Jason W. Hamilton (President); Myron J. Young (Vice-President); James D. Webb (Secretary-Treasurer).

**BETA GAMMA** (Queensborough Community College): The chapter held its initiation on May 22, 1991. For the first time the chapter initiated a homebound student. The homebound program was established for students who, because of physical disabilities, cannot attend classes. A telephone in the classroom is used to communicate with homebound students. The chapter plans to continue its tutoring service, each member volunteering at least fifteen hours per semester to help students -become scholastic achievers. Officers: Andrew Pitter (President); Farshad M. Lalehzarzadeh (Vice-President); Lenney Tennessee (Secretary-Treasurer).

**BETA ZETA** (College of Staten Island, CUNY): The chapter continued to invite guest speakers who addressed the members on topics relevant to engineering technology and industry. Future plans call for eight meetings with speakers per semester and at least one field trip each semester. Officers: Nabil Tamzarian (President); Richard Ross (Vice-President); Michael S. Nixon (Secretary); Lawrence C. Little (Treasurer).

**BETA MU** (State University of New York, Canton): The chapter held its initiation on April 11, 1991. Plans are being formulated to make Tau Alpha Pi more visible on campus and by so doing, to encourage students to achieve higher scholarship. Officers: Aaron J. Roof (President); Gilbert H. La Duke (Vice-President); Darrin Campbell (Secretary-Treasurer).

**BETA NU** (New York Institute of Technology): The chapter held its induction ceremony and reception on April 27, 1991. It continues its efforts to increase membership and promote public relations. Officers: Jon Meinhold (President); Roy Johanson (Vice-President); Robert Adonailo (Secretary); Atul Sakaria (Treasurer).



## BETA NU

Left to right, seated: Ronan Silva, John Deverdits, Vincent Dimarco, Thomas Schaefer. Standing: Prof. Bernard Gleimer, Dr. Edward Altchek (adviser), Jon Meinhold, Roy Johanson, Robert Adonilo, Atul Sakaria, Dr. Melvyn Drossman (Dean, School of Engineering and Technology).



**BETA OMICRON** (Westchester Community College): The chapter held its initiation on May 27, 1991. Members participated in educational field trips, which included the following: (1) Norden Radar Systems in Farmingdale, New York, to observe fabrication, assembly of system into consoles, environmental tests, and cockpit of helicopter simulation, (2) Davidson Laboratory at Stevens Institute of Technology, Hoboken, New Jersey, which holds the largest private indoor scaled-down water research facilities, (3) Electro International 1991 at the Jacob Javits Convention Center, (4) Leonardo Da Vinci and Winslow Taylor collections at Stevens Institute of Technology, (5) a 2 + 2 transfer tour of SUNY—Farmingdale, especially the baccalaureates in electrical technology and manufacturing technology. The chapter also sponsored seminars on “Artificial Intelligence” by IBM, “Cellular Phones” by Northern Telecom, and “Prodigy” by Prodigy. Officers: Michael C. Iorio (President); Michael Ricci (Vice-President); Bradley Walters (Secretary-Treasurer).

Left to right: Bradley Walters, Prof. Ernest Alfred Joerg (sponsor), Michael Iorio.



**GAMMA ALPHA** (University of Cincinnati College of Applied Science): The chapter held its spring initiation on April 30, 1991. Members have continued to provide tutoring services. On April 29, at the Spring Awards ceremony, Professor Laura Caldwell was presented the Academic Achievement Award for her outstanding contribution to the academic environment of the college. Officers: Brian G. Fabo (President); Phillip Wilkin (Vice-President); Thomas Miller (Secretary).



Left to right: Brian Fabo, Daniel Wireman, Phillip Wilkin, Jerry Riha, Thomas Miller, Robert Leesman, Kyle Adamson

**GAMMA EPSILON** (De Vry Institute of Technology, Columbus): On May 31, 1991 the chapter sponsored a barbecue in honor of new inductees who, on June 4, 1991, were officially initiated. At the banquet that followed, Mr. Tom Metzeler, a senior instructor, delivered the keynote address. The chapter plans to have a display case that will illustrate and explain the significance and responsibility of Tau Alpha Pi membership. It plans, also, to update the plaques containing the names of members. A tour of an electronics firm may take place in the year ahead. Officers: Fred Law (President); Chris Klenzman (Vice-President); La Von Miller (Secretary); Chet Meddles (Treasurer).

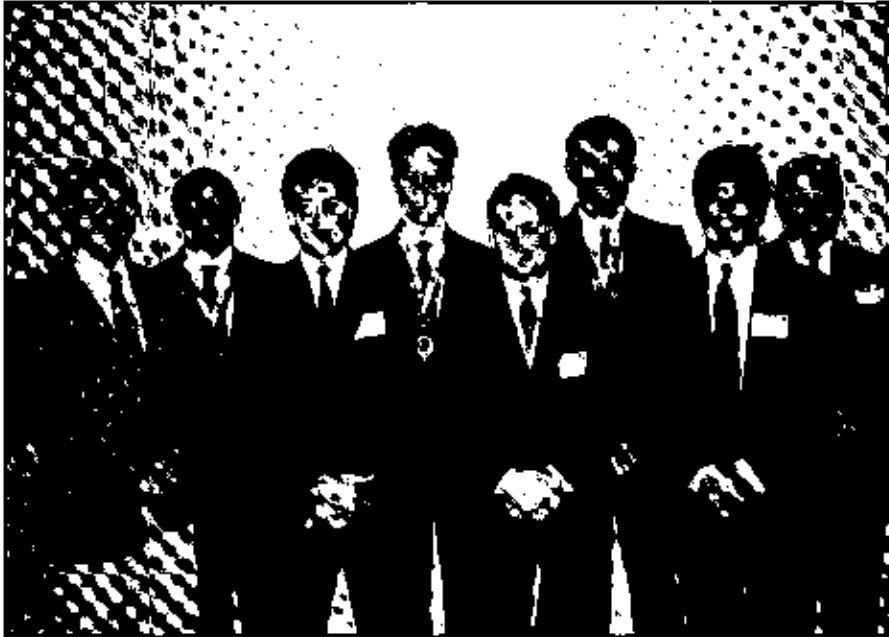
**GAMMA ETA** (University of Akron): The chapter held its initiation and banquet on February 22, 1991. To promote the visibility of Tau Alpha Pi, members placed a bulletin board in the display case and will post pertinent information. Professor John Edgerton (adviser) spoke informally with some members about sponsoring seminars. Officers: Robert Hustad (President); Frank Aglioti (Vice-President); Shawn Mc Carron (Secretary); Ronald Frank (Treasurer).

Left to right, front to back:  
Robert Hustad, Shawn Mc  
Carron, Frank Aglioti,  
Prof. John Edgerton,  
Christine Kerrigan, Gregory De Witt, Mark  
Thomas, Charles Tyree,  
John Taddeo, Lynette  
Boggs, Robert White,  
Daniel Thouvenin, Jack  
Papes, Ronald Frank,  
Daniel Roberts, Thomas  
Norman, Charles Cline,  
Tim Watson, David Becker.



**GAMMA THETA** (University of Toledo): The chapter held its initiation on December 2, 1990. As part of their activities, members have helped conduct faculty evaluations at the close of each quarter. They have also served as judges for the best Senior Design Project award. The chapter plans to complete in 1993 the key-monument for mounting in front of the new Engineering Building. Officers: William C. Slicker (President); Jeffrey S. Bryan (Vice-President); James D. Taylor (Secretary-Treasurer); John G. Stephens (Escort).

Left to right: Prof. Richard L. Curran (adviser), John C. Stephens, Jeffrey J. Eischen, Jeffrey S. Bryan, William C. Slicker, James D. Taylor, Scott W. Sevenish, Prof. Frederick J. Nelson (adviser).



**GAMMA LAMBDA** (Shawnee State University, Portsmouth, Ohio): The chapter held its chartering ceremony and banquet on April 27, 1991. Executive Director Frederick J. Berger was the keynote speaker. Members were the leading contributors to the university's canned food drive for the poor. They had a picnic to honor engineering-technology students who showed excellence in the 1990-1991 academic year, and they hoped to meet likely candidates for future membership. They sponsored "Stick It to Your Favorite Teacher," a dart game involving professors' pictures, and there were prizes for the winners. They designed an attractive tee shirt bearing the Tau Alpha Pi logo. The chapter plans to install the key-monument in front of the new technology building and to continue community efforts to assist the poor. Officers: Kathleen Dillon (President); John Moore (Vice-President); Kelly James (Secretary-Treasurer); John Cullen (Public Relations Officer).

### **GAMMA LAMBDA**

Left to right, front row: John Moore, Kathleen Dillon, Kelly James, John Cullen, Dr. Frederick J. Berger (executive director). Second row: Tim Grey, Jeremy Willis, Mavis Shahr, Pat Ridenour. Third row: Tim Conley, Kelly Jenkins, Bret Childers, Joe Gilbert, Prof. David Winters (adviser). Last row: Gary Greene, Shawn Morgan, Michael Berry, Prof. Jeff Humble (adviser).



**DELTA ALPHA** (Wentworth Institute of Technology): The chapter has been re-activated with the help of Professor Rolf Davey, its new adviser. Initiations were held in the spring, summer, and fall terms. Plans call for making Tau Alpha Pi more visible on campus through greater involvement in campus activities, by displaying the Tau Alpha Pi insignia and memorabilia, and by erecting the key-monument on campus. The chapter extended honorary membership to George T. Balich, Provost of Wentworth Institute.

Officers: Christopher Jenkins (President); Susan Halverson (Vice-President); Michael Glisserman (Secretary); Andrew Boyce (Treasurer); Ronald Pong (Public Relations).

Left to right: Prof. Rolf Davey (adviser), Michael Glisserman, Christopher Jenkins, Susan Halverson, Andrew Boyce.



**DELTA BETA** (Northeastern University): The chapter held its initiation and banquet on May 21, 1991. Future plans include trips to museums, tutoring to help students achieve scholarship that will qualify them for Tau Alpha Pi election, helping in the university's recruitment efforts, and raising funds for a key-monument. Officers: Eric Balch (President); Shem Garlock (Vice-President); Debra Gomberg (Secretary).

# **Emshousen Acceptance Address**

## **ASEE**

### **Dr. Frederick J. Berger Award**

The Dr. Frederick J. Berger Award was established by ASEE in 1990 as an annual award to be presented to the individual and institution that have contributed significantly to promoting programmatic excellence in engineering technology. The first award was extended to Dean Frederick W. Emshousen and Purdue University. Following is Dean Emshousen's acceptance address:

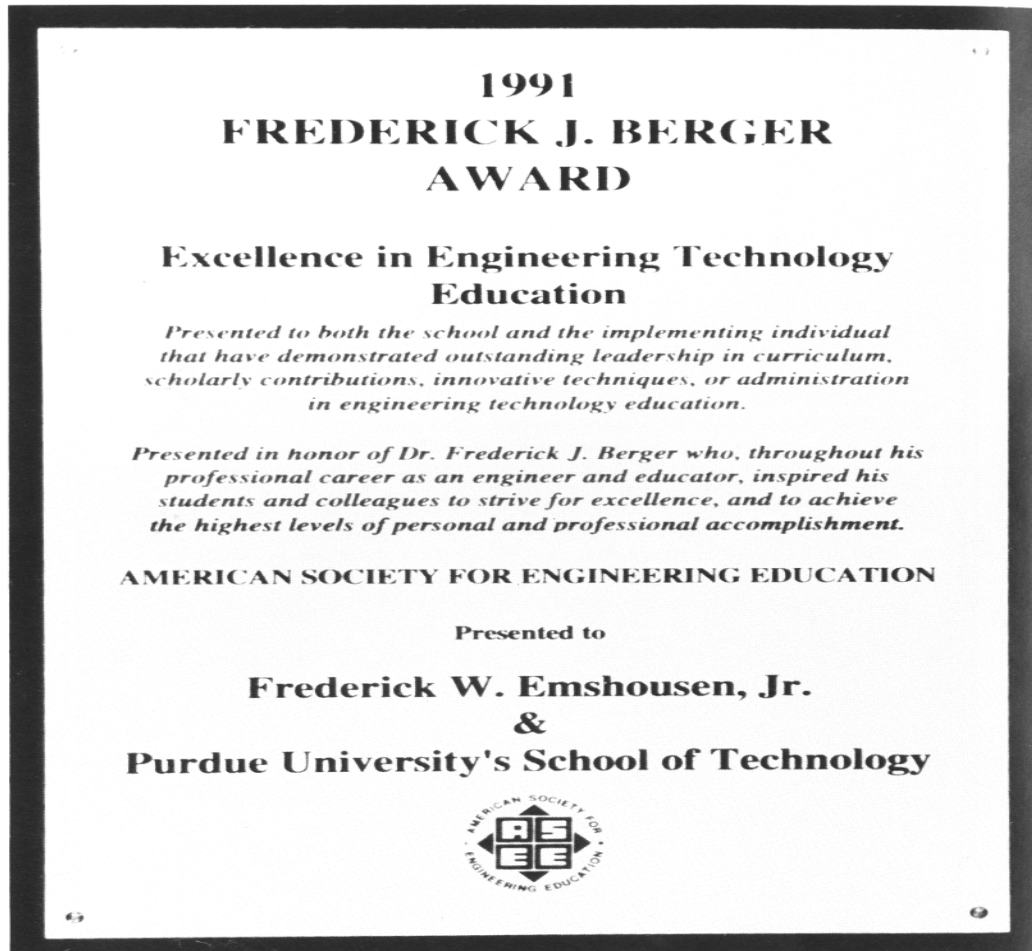
Mr. Chairman, Dr. Berger, and Friends:

It is an honor to accept this award on behalf of the Mechanical Engineering Technology department of Purdue University. It has been a fortunate opportunity and a very rewarding experience for me to have contributed some part to the development of the MET program at Purdue.

No one person can achieve much by himself. It takes the corporate effort of many to define, develop, and refine a quality education program, and that has certainly been the case at the School of Technology at Purdue. It is impossible to recall from memory all those who have participated in significant ways to bring a concept into reality and practice, but there have been many. However, I am indeed honored and humbled to accept this recognition of achievement and excellence of a very dedicated faculty.

The nature of this award identifies with the foundation and heart of engineering-technology education, for it is in the classrooms and laboratories that we achieve excellence in academic instruction. Concurrently, it is through our professional service that we establish the standards of excellence for our disciplines. The Frederick Berger award embodies  
(continued on back fold)





## Emshousen Address (continued)

those aspects of our professional and career activities. Thus, it is indeed a recognition which gives each of us in our department of Mechanical Engineering Technology and our School of Technology a meaningful satisfaction of some level of accomplishment in endeavors central to the reasons why we work and how we live as professionals in engineering technology.

I wish personally and publicly to extend warm appreciation and sincere gratitude to Dr. Fred Berger for his supporting the endowment of this award. His dedication, commitment, and contribution to excellence in engineering-technology education have been substantial and constant over the years. We all recognize that without Dr. Berger there would not be a Tau Alpha Pi, the national standard of excellence for our students. Dr. Berger, for all your support these many years, we in engineering-technology education salute you and extend our heartfelt thanks.

As mentioned earlier, it takes the work of many to build a strong and high quality program. I ask that all my colleagues of the MET department stand and join me in accepting this recognition. I also ask that all the School of Technology faculty in attendance stand and allow us to thank the Engineering Technology Council of ASEE for honoring our school and in particular the Mechanical Engineering department with this award of distinction.

Mr. Chairman and Dr. Berger, it is indeed a proud moment for both my colleagues and me. We look forward to

displaying this plaque in a very prominent place in our school as a daily reminder to persist in our efforts to enhance the quality, stature, and recognition of engineering-technology education in the true Tau Alpha Pi tradition. Thank you.

### **DELTA BETA**

Left to right, front row: Jing Chen, Menachim Shechter, Debra Gomberg, Stephen McGee. Middle row: Paul Reh, Raymond Williams, Eric Balch, Shem Garlock, John Bernardes. Back row: William Gagnon, Ehud Yehezkel, Brian Kavanaugh.



**DELTA GAMMA** (Franklin Institute, Boston): The chapter held its initiation on April 27, 1991. The major activity on the part of the chapter is tutoring students. Each member volunteers two hours each week to the tutoring program. Officers: Donald B. Turner (President); Ben Jewkes (Vice-President); Lynne Smith (Secretary); Peter Woodward (Treasurer).

**ZETA ALPHA** (University of Houston): The chapter held its initiation on April 5, 1991. Plans call for the mounting of the enlarged Tau Alpha Pi key in front of the College of Technology. Officers: Kathryn Beck (President); Michael Fleck (Vice-President); Chris Cashman (Secretary); Lydia Morgan (Treasurer).

**ETA DELTA** (Western Carolina University): The chapter held its chartering ceremonies on April 19, 1991. Dr. Frederick J. Berger, executive director, conducted the initiation and delivered the keynote speech. Other speakers included Professor Kenneth Ayala (adviser) and Dr. George De Sam (sponsor). This chapter is the second to be sponsored by Dr. De Sam, who previously established the chapter at Alfred State College in New York. Because of his many years of dedicated service to Tau Alpha Pi, he was presented the Tau Alpha Pi meritorious certificate. Future plans of the chapter call for fund-raising and promoting the visibility of Tau Alpha Pi. Officers: Brian Motsinger (President); Stephen Allison (Vice-President); Elijah Macharia (Secretary); Charles Lindsey (Treasurer).



**ETA DELTA**

Left to right, first row: Prof. Kenneth Ayala (adviser), Dr. George De Sam (sponsor), Mary McAllister, Ginger Linville, Dr. Frederick J. Berger. Second row: Jonathan Wilson, Elijah Macharia, William Hawkins. Back row: Charles Lindsey, Brian Motsinger, Stephen Allison, James Baldwin, Ronald Allen.



**IOTA BETA** (Penn State. Behrend Campus): The chapter held initiation ceremonies on April 10, 1991. Members plan to be able to complete some projects now in progress. Officers: Martin Jackson (President); Jason Samler (Vice-President); Melissa Pavlock (Secretary); Vince Serwinski (Treasurer).

Left to right, first row: Michael McDusky, Jason Samler, Vince Serwinski, Martin Jackson, Melissa Pavlock, Carolyn McLaughlin, Tonya Clyburn. Second row: Mrs. Kathy Holliday-Darr (adviser), Timothy Foster-Pegg, Kimberly Barnes, Robert Lyle, Michael Yurkewicz, Trevor Johnson, Robert Hieber, Jeff Burns.



**IOTA BETA** (Penn State, New Kensington): The chapter held its initiation on May 1, 1991. On this occasion it presented to Dr. Arbuckle, the Executive Officer, a plaque which is to be inbedded into the base of the key-monument that will be erected on the campus lawn in the fall of 1991. Officers: David Shedlock (President); Frank Opice (Vice-President); Lynn Donahey (Secretary-Treasurer).

Left to right, front row: Paul Worthington, Prof. James Harley (adviser), Lynn Donahey, Frank Opice, Jay Smith, Brad Chrissman. Back row: James Tudor, Anthony Pattison, Duane Swartz, David Shedlock, David Fulton.



**KAPPA ALPHA** (Capitol College): The chapter inducted new members on March 8, 1991 and again on April 26, 1991. Following the ceremonies on April 26, a general membership meeting was held to elect officers for the 1991-1992 academic year and also to discuss plans for future projects. Officers: Stephen Wasilko (President); Charles Muth (Vice-President); Joan King (Secretary-Treasurer).

**KAPPA BETA** (Anne Arundel Community College): The chapter held initiations in December, 1990, and on May 1, 1991. Guest speakers were Vice-President James S. Atwell and Board of Trustees member Irene Newhouse. Mrs. Newhouse was honored for her twelve years of service on the College Board of Trustees. Activities included a lecture on the Maryland Solar Car which placed third in the nation and seventh at the international contest in Australia. Next year's plans include a banquet in honor of the chapter's tenth anniversary, as well as a regular lecture series and sponsorship of the Anne Arundel Chapter of JETS. Officers:

Diane Huber (President); Diane Dray (Vice-President); Charles F. Ross (Secretary-Treasurer).

### **KAPPA BETA**

Left to right, front row: Daniel C. Siebenhaar, Darlene B. Belisario, Randall J. Buckley, Michael D. Fox, Samuel H. Melfi, Jr. Back row: Dr. James S. Atwell (Vice-President of Anne Arundell Community College), Professor Willard R. Mumford (adviser), Gordon T. Valliant, Diane Huber, James M. Cowen, Maurice C. Bowles, Theodore F. Linnenkamp, Harold R. Sachs III, Lynn A. Disque, Melvin Griffin, Jr., Charles F. Ross.



**KAPPA GAMMA** (Prince George's Community College): The chapter held its initiation on May 7, 1991. In attendance were Dean William Lauffer, Dean of Computer and Engineering Technologies; Professor Charles Hendrickson, faculty adviser; and Professor Henry Davis, who sponsored the chapter's new felt banner. The chapter wishes to express its gratitude to Professor Davis for his contribution. Plans include maintaining a library within the Electronics Engineering Technology department and offering tutoring assistance. Officers: Cynthia L. Lewis (President); Robert E. Leslie (Vice-President); Derrick T. Roney (Secretary); Scott T. Corridon (Treasurer).



Left to right, front row: Paul Schmidt, Michael Haberman, Prof. Charles Hendrickson (adviser). Second row: Cynthia Lewis, Ralph Phillips, John Grady, David Ranaghan, Doug Sands, Derrick Roney, Scott Corridon. Third row: Prof. Henry Davis, Robert Wright, Robert Leslie, Kenneth Waugh, Dean William Lauffer.

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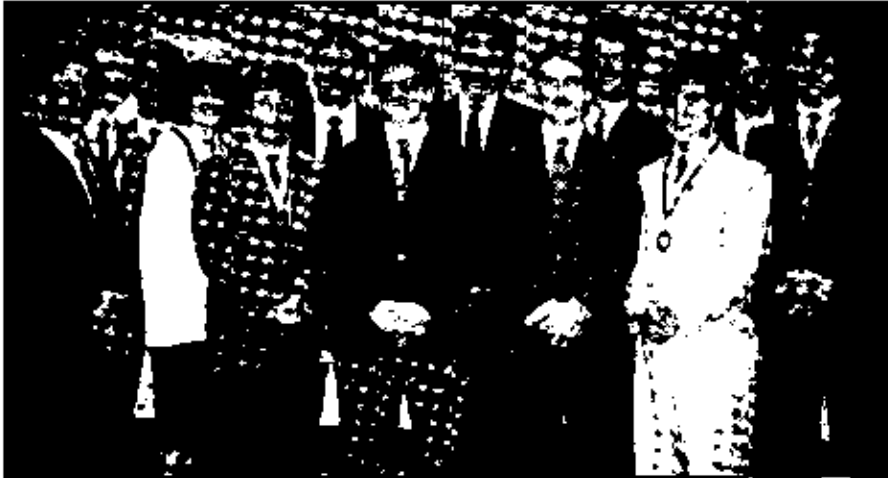
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**LAMBDA DELTA** (Greater New Haven State Technical College): The chapter held its spring 1991 initiation ceremony which was followed by a formal dinner. Last year the chapter established a Tau Alpha Pi award for excellence to honor the graduating senior with the highest average. This year's recipient was Robert Klouse. Officers: Robert Klouse (President); James Brown (Vice-President); Monya Zurkus (Secretary); Vincent Vollero (Treasurer).

**LAMBDA EPSILON** (Ward College of Technology): The chapter held its initiation of new members on April 26, 1991. The chapter plans to have a key-monument placed in the Engineering Technology complex. Officers: Lawrence Girard (President); Scott Petersen (Vice-President); Todd Ferraro (Secretary); Timothy Schartier (Treasurer).

Left to right, front row: Prof. Thomas Gendrachi (adviser), Lori Sacerdote, Lawrence Girard, Timothy Schartier, Jason Gura, Richard Norton, Todd Ferraro. Second row: Scott Petersen, Kevin Kosenski, Peter Bergamo, Paul Lewko, Stephen Petronio, Albert Llanes.



**NU BETA** (Southern Illinois University, Carbondale): The chapter held its initiation on May 10, 1991. Members assisted in the activities of the college's Engineers' Week by conducting tours and organizing events. The chapter participated also in two campus blood drives. A field trip and picnic took place in late spring. Officers: James Ratajczak (President); Robert Strauch (Vice-President); David Gustafson (Secretary); John Jansen (Treasurer).

**XI ALPHA** (Cal Poly, Pomona): The chapter held its initiation on May 17, 1991. Chapter members have continued to tutor engineering students, to participate in Engineering Week, and to advise new students. Officers: Dave Terry (President); Roland Peisker (Vice-President); Jack Lau (Secretary); Garth Franklin (Treasurer).

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### **Tau Alpha P1**

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#### **XI ALPHA**



Left to right: Jack Lau, Roland Peisker, Dave Terry, Garth Franklin.

**XI EPSILON** (DeVry Institute of Technology, Los Angeles): The chapter held initiations on February 25, 1991, on May 15, 1991, and on September 4, 1991. A major contribution of the members is their participation in tutoring students in math and principles of electronics. In fact, the tutoring program has expanded to include not only freshmen, but also second and third semester students. The chapter is planning to have a luncheon which will involve the participation of DeVry faculty and guest speakers from the electronic industry. In addition, the chapter implemented in 1990 a recycling program as a means to raise funds. Monetary contributions were made to the Fred Jordan Mission for the homeless. Officers: Edward Black (President); Glenn Oba (Vice-President); Javier Lopez (Secretary); Mike Bianco (Treasurer).

**OMICRON BETA** (Union County College): On April 19, 1991 the chapter held an early morning initiation ceremony which was followed by a breakfast. The guest speaker was Dr. Thomas Brown, president of the college, who spoke about the importance of engineering technology in our society. Officers: Maria J. Corredera (President); Cleon M. Spencer (Vice-President); Elke H.

Passarge (Secretary); Michael S. Danham (Treasurer).

**Left to right, kneeling: John Gamboa, Michael Dunham. Standing: Michelle Buchala, Bohdan Luckaschewsky, John Kidd, Joyce Boesgaard, Mariano Almanz, Maria Corredera, Frank Helbit, Brian Mann, Cleon Spencer, Elke Passarge, Joseph 'frakem, Dr. Thomas Brown, William Roettger.**



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**P1 ALPHA** (Purdue University): The chapter held initiation ceremonies on April 7, 1991. Among the initiates was Dean Don K. Gentry, who was awarded honorary membership in recognition of his strong support of Tau Alpha Pi. The chapter has continued its practice of preparing a resumé book of graduates and sending it to companies that are likely to be employers. Officers: Edgar Hernandez (President); Joseph Maicher (Vice-President); Bryan Schuiteman (Secretary-Treasurer).

**Dean Don K. Gentry (left) receiving certificate of honorary membership from ( chapter president (1990-1991).**



Wlen Roberson,

**P1 GAMMA** (Indiana University-Purdue University, Fort Wayne): The chapter held its initiation on May 10, 1991. A general membership meeting followed to elect officers for the 1991-1992 academic year and to discuss future activities. Officers: Hooi Mey Chong (President); James M. Davis (Vice-President); Matthew Gene Werst (Secretary-Treasurer).

**P1 EPSILON** (University of Southern Indiana): The chapter held its initiation on May 24, 1991. Among its activities is awarding a scholarship to the new initiate with the highest GPA. The recipient was William Kunkler. The chapter welcomes an additional faculty adviser –Professor Larry Goss, who joins Professor Paul E. Bennett. Officers: Robert Cooper (President); Kerry Pierson (Vice-President); Susann Bateman (Secretary-Treasurer).

**P1 THETA** (Purdue University, Kokomo): The chapter held initiation ceremonies on November 17, 1990. Plans call for a tutoring program whereby members will assist technology students. Officers: Greg Aldridge (President); Kristen M. Fitzgerald (Vice-President); Mary Jean Price (Secretary); Brian Kopeschka (Treasurer).

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Tau Alpha P1

1991

#### **P1 THETA**



Left to right, front row: Kristen Fitzgerald, Greg Aldridge, Mary Price, Brian Kopeschka. Middle row: Dean Sullivan, David Krause, David Morrow, Troy Wideman, Bret Wolf, Tim Rector. Back row: Phil Thornhill, Lesa Stevens, Brian Imbler, David Bass.  
~j1

**RHO BETA** (University of Southern Colorado, Pueblo): The chapter held its initiation on April 26, 1991. The guest speaker was Dr. Ray L. Sisson, Dean of USC College of Applied Science and Engineering Technology, who presented a slide talk on his trip to Russia as an ASEE delegate. Two members took first-place honors at the eleven-state IEEE Region V conference in Laramie, Wyoming. James Glenn was the student paper contest winner, and Richard Morrow was a first-place team member in a design competition. Chris Mathews took third place in an underwater vehicle competition at the ASME regional conference in Provo, Utah. Officers: Richard Morrow (President); Joseph LoPresti (Vice-President); James Prioreschi (Secretary-Treasurer).



Left to right, front row: Richard Morrow, James Prioreschi, Joseph LoPresti. Second row: Duke Casias, Kathleen Perkins, Sandra Barringer, Mark Tom, William Williams. Third row: Thomas Ushio, Mario T--ujillo, John Ireland, Dennis Minchow.

**RHO GAMMA** (Metropolitan State College of Denver): The chapter held initiations on November 29, 1990, and on May 3, 1991. All members were formerly recognized at the School of Professional Studies Award Ceremony on May 3, 1991. Officers:

Blake G. Russo (President); Curt Alway (Vice-President); Manuel A. Santi (Secretary).

**SIGMA GAMMA** (St. Petersburg Junior College): The chapter held its initiation on February 28, 1991. Members participated in Open House activities in October with display information and electronic demonstrations and applications. In February, 1991, during National Engineers' Week, members conducted tours of the engineering-technology laboratories. The chapter featured a sound demonstration for the Spring Fever Day held in April, 1991, and later in the Spring of 1991, visited several local industries to observe engineering activities. The chapter again provided free tutoring in math, electronics, and engineering drawing. In the fall, a visit to the City of St. Petersburg Engineering department and tours of local industries are planned. Officers (1990): Jay Buchanan (President); Florin Tudor (Vice-President); Randy Baer (Secretary). Officers (1991): Jay Buchanan (President); Anthony Buontempo (Vice-President); Randy Baer (Secretary).

**SIGMA EPSILON** (Embry-Riddle Aeronautical University): The chapter held its initiation ceremony on March 22, 1991. Plans include promoting the visibility of Tau Alpha Pi on campus through displays of the Tau Alpha Pi emblem. Officers: Forrest D. Arvin (President); Anthony DeLauro (Vice-President); Jeremy Chapman (Secretary-Treasurer).

**UPSILON BETA** (Arizona State University): The chapter held its initiation on April 3, 1991 and a banquet on April 19. Two instructors received honorary membership: Dr. Albert H. Mc Henry, chairman of the Department of Electronics and Computer Technology, and Professor DeVon J. Roper, acting chairman of the Department of Aeronautical Technology. Dr. Mc Henry delivered the keynote address on "A Formula for Success in Today's Industry." The chapter renovated its key-monument and is preparing a plaque that will be mounted next to the key. The chapter moved, also, to induct qualifying students who are enrolled in the graduate engineering-technology programs. Officers: Joseph L. Tomasic (President); Satyanarayana Reddy Mannem (Vice-President); William Weidman (Secretary-Treasurer).

Left to right: Joseph L. Tomasic, S.R. Mannem, Professor W.H. Reed (adviser), Professor J.E. Maisel (adviser), Kyle L. Freeman (1990-91 president), William Weidman.



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**PSI BETA** (Nashville State Technical Institute): The chapter held its fall initiation ceremonies on November 9, 1990. The initiates were honored later that evening at the chapter's semi-annual banquet. Among their ongoing activities is a scholarship program to help provide for the academic assistance of fellow students. Officers:

Richard Hayeland (President); James Fielder (Vice-President); Jimmie Parks (Secretary-Treasurer).

Left to right, front row: Arimantas Siemaska, Prof. Innocent Usoh (adviser), Michael Cherry, Patricia Carta, Doug Mason, Gladys Vernon, Michael S Treadway, Larry Duel. Back row: Rick

Hayeland, Jimmy Parks, Brett Davis, William Fuller, Glen N. Dodson, David Hainline, Ronald Saklem, Randal Byers.



**PSI DELTA** (Pellissippi State Technical Community College): The chapter is scheduling its 1991 initiation in early September. Projects and events include visits to local industries, guest speakers on topics of concern to students about their prospective fields, community service, and tutoring in math and engineering technology. Officers (1991-1992): Anita Spurlock (President); Terry Turner (Vice-President); Ron Elder (Secretary-Treasurer).

**ALPHA ALABAMA** (University of Alabama): The chapter initiated new members on May 7, 1991. This may have been a milestone event, for it is expected that the engineering-technology programs at the University of Alabama might be phased out over the next three years. The new members are excited in keeping Alpha Alabama active on the campus of University of Alabama. Officers: Edwin Morris (President); Richard Barkley (Vice-President); Darren Woodruff (Secretary).

**ALPHA ARKANSAS** (Arkansas State University, Beebe): The chapter held its initiation on March 5, 1991. The chapter sponsored Quality Month Celebration in October, 1990; Women in Science and Technology Conference in March, 1991; and a Distinguished Lecturer Mr. Michael L. Guarriello on "The State of the Industry" in April, 1991. Officers: Marshall Golgan (President); Michael Hahn (Vice-President); David Branch (Secretary).



**ALPHA ARKANSAS**

Left to right, seated: Michael Hahn, Prof. Patricia Buford (adviser), Danis Green, Janet Gill, Tom King. Standing: David Branch, Carl Hart, Laurence DeGroat, William Sisson, Brian Miller, James Ramsey, Prof. James Darnell (adviser), Terrell J. Nobles, Anthony Meredith, Keith Summerlin.



**GAMMA LOUISIANA** (Southern University, Baton Rouge): In conjunction with the Technology Club, Gamma Louisiana chapter designed and built a security-coded automatic window and door opener that were presented during National Engineering Week. For Easter, members distributed baskets in the children's ward of the charity hospital in Baton Rouge. During the year, tutoring sessions, seminars, and instruction in word processing were held for students. Plans call for the continuation of tutoring and additional seminars on improving skills in writing, speaking, studying, and interviewing techniques. Members will become a positive force in the community and by speaking at area schools, encourage students to become achievers. Officers: Mark Henton (President); Clifton Alford (Vice-President); Cheryl Ellois (Secretary); James Turner (Treasurer).

**BETA MICHIGAN** (Wayne State University): The chapter held initiation ceremonies on November 15, 1991. The chapter arranged with the Wolverine Bronze Company, located in Roseville, Michigan, to serve as a foundry for making the bronze casting of the Tau Alpha Pi key-monument. The cost this year was \$3,665. The foundry is willing to serve any chapter of Tau Alpha Pi. Officers: Gerald Tarpley (President); Arthur Wesserling (Vice-President); Richard Joseph Pado (Secretary); Patrick Smith (Treasurer).

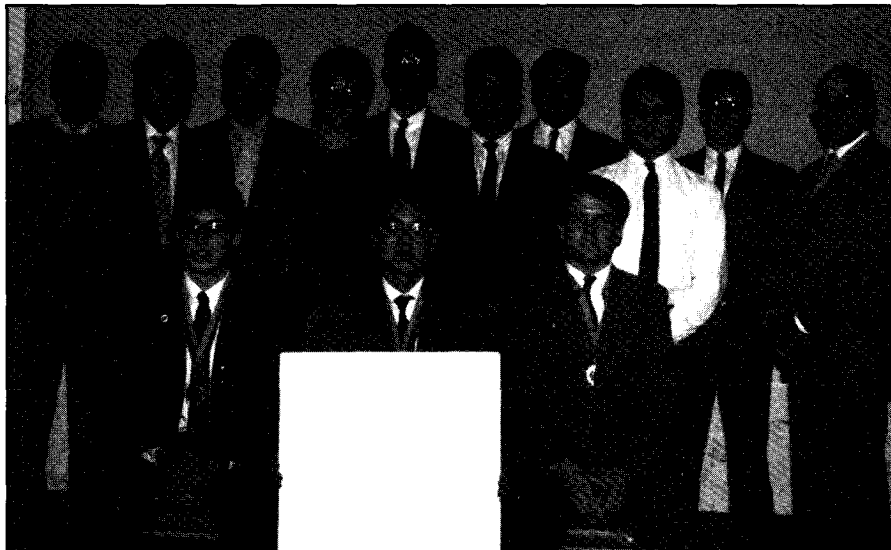
**BETA MICHIGAN**



The Tau Alpha Pi Chapter and Dr. Mulchand S. Rathod.

**ALPHA WISCONSIN** (Milwaukee School of Engineering): On March 6, 1991, the chapter held its annual initiation and banquet. Among its ongoing activities is an annual seminar to inform sophomore electrical engineering-technology students about the various technical specialties being offered. In 1990 this seminar took place on October 5. Officers: Philip Schubert (President); Richard Balzar (Vice-President and Activities Coordinator); Lee Griesbach (Secretary-Treasurer).

Left to right, front row: Russell Jungers, Tony Krueck, KU Krautkramer. ~ row: Michael Davis, Lee Griesbach, Brad Patz, Douglas Peck, Prof. Harvey Hoy (adviser). Back row: John Lockwood, Richard Balzar, Brad Frisinger, Philip Schubert, Steven Jungers.



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## HONOR ROLL

The officers and members of Tau Alpha Pi National Society hail and greet the following affiliate chapters newly elected from May 1990 to June 1991. We commend the institutions for having the foresight to initiate affiliate chapters of Tau Alpha Pi at their respective campuses. We congratulate these charter members and say to them that they should be proud of their designation, for Tau Alpha Pi National Honor Society for

students in Engineering Technology is the most selective of all honor societies, accepting only the top 4% of all associate and baccalaureate engineering technology students enrolled at a college or university.

We hope that the charter members will establish a solid and firm foundation so that those who follow them will be able to build upon it. Our best wishes for success in the endeavors of Tau Alpha Pi.

Frederick J. Berger, D Sc.  
Executive Director  
Tau Alpha P1

#### **ETA DELTA CHAPTER**

Chartered April 19, 1991, Western Carolina University:  
Dr. George W. DeSain, Sponsor; Professor Kenneth Ayala, Adviser.

##### **Charter Members**

James M. Baldwin	Mary McAllister
Elijah Karanja Macharia	Dean Wilson
Ginger D. Linville	Stephen Allison
Jonathan D. Wilson	Brian Motsinger
Charles B. Lindsey	Ronald Allen
	William Hawkins

#### **GAMMA LAMBDA CHAPTER**

Chartered April 27, 1991, Shawnee State University:  
Dean David Z. Winters, Sponsor; Professor Jeffrey Humble, Adviser.

##### **Charter Members**

Kathleen A. Dillon	Shawn Morgan
John A. Moore	Patrick Ridenour

(continued on next page)

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Kelly Colleen James  
John A. Cullen  
Michael D. Berry  
Bret Childers  
Timothy V. Gray  
Timothy Ray Conley  
Gary David Greene  
Jeremy Willis  
Kelly J. Jenkins  
Joseph H. Gilbert

#### **ETA ALPHA CHAPTER**

Chartered (re-activated) May 20, 1991, Gastdn College, NC:  
Professor Paul C. Lunsford, Adviser.

##### **Charter Members**

Jack Thomas Carswell  
Arthur John Friday

Michael Dean Haselden  
Michael Steve Lloyd  
Bruce Edward Mack  
Kenny Alan Mc Clure  
Mark Richard Norris  
Charles B. Pasour  
Joel Craig Phillips  
Mark G. Poole  
Randy Alan Shoemaker  
Theodore Louis Starling

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1991

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# **MERITORIOUS AWARD OF TAU ALPHA PI**

**Recipients of the Tau Alpha Pi Meritorious Award bestowed in  
gratitude for service rendered in furthering the goals of Tau Alpha Pi and in appreciation of the effort to  
upgrade the professional status of the technology students:**

**STEPHEN R. CHESHER, President**  
Southern College of Technology  
April 12, 1981

**JOHN W. G. CHIN**  
Xi Gamma Chapter  
Cogswell College, San Francisco  
February 4, 1982

**JAMES P. TODD, President**  
Vermont Technical College  
February 4, 1982

## **DEDICATION CEREMONY OF THE FIRST TAU ALPHA PI KEY MONUMENT**

Upsilon Beta Chapter  
Arizona State University  
February 25, 1983

**FRANK E. COX, Director**  
Engineering Technologies

**WILLIAM CURTIS GREGOIRE**  
**JOHN KOVACH**  
**MICHAEL B. MARRA**  
**MARSHALL R. MINTER, Professor**  
**BEVERLY K. SCOTT**  
**MICHAEL JOSEPH SERAFIN**  
**DAVID SKAY**  
**ROLAND S. STRAWN, Professor**

**ROBERT L. MOTT, Chairman**  
Mechanical Technology  
University of Dayton  
March 26, 1983

**JAMES R. SONNER, Professor**  
Psi Delta Chapter  
Mississippi State Technical Community College  
September 25, 1988

**JAMES L. McGRAW, Dean**

University of Dayton

July 31, 1990

**ROBERT L. REID, Dean**

Beta Theta Chapter

Broome Community College January 31, 1991

**GEORGE DeSAIN, Professor**

Eta Delta Chapter

Western Carolina University April 19, 1991

**W. ROBERT WONKKA**

Chi Alpha Chapter

Vermont Technical College May 5, 1991

**LEONARD SPIEGEL, Professor**

Beta Epsilon Chapter

Hudson Valley Community College

September 1, 1984

**MERWIN L. WEED, Professor**

Iota Beta Chapter

Penn State, McKeesport Campus

July 9, 1985

**JOHN TRIDICO, Professor**

Kappa Alpha Chapter

Capitol College

February 12, 1986

**LILLIAN GO'ITESMAN, Professor**

Beta Delta Chapter

City University of New York (BCC)

April 10, 1986

**DANIEL J. GAIER**

Gamma Beta Chapter

University of Dayton

April 4, 1987

**R. EUGENE NIX, Professor**

Pi Alpha Chapter

Purdue University, West Lafayette

May 15, 1991

## **MERITORIOUS AWARD OF TAU ALPHA P1 (Continued)**

**CASTING OF THE FIRST EMBLEM OF TAU ALPHA P1**

Theta Beta Chapter

Old Dominion University  
November 10, 1983

**ALPBERT J. BOWERS**  
**LEONARD A. HOBBS, Professor**  
**J. HIRST LEDERLE, Professor**  
**DAVID M. NORMAN**