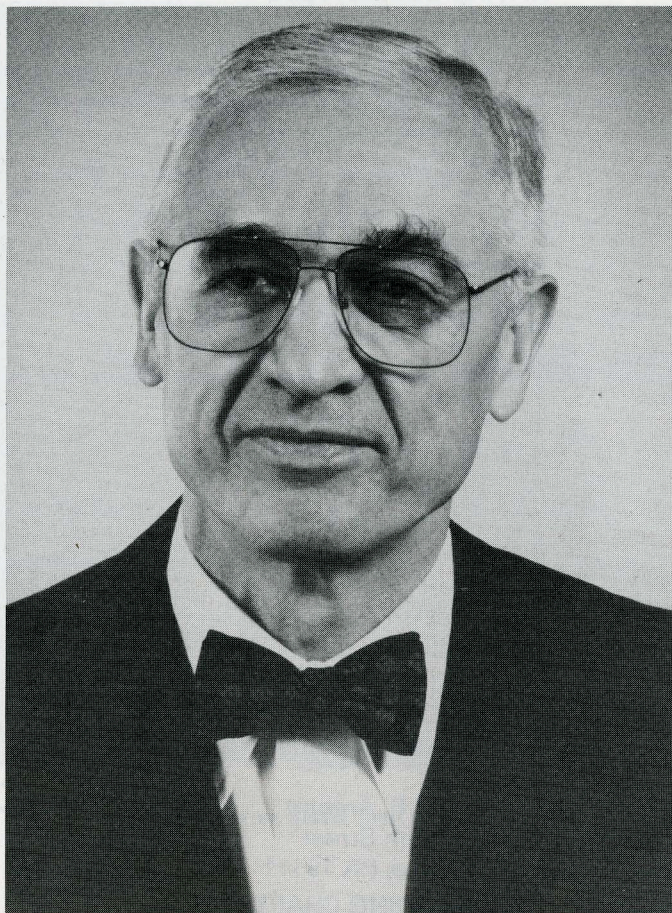


BRIDGE of Eta Kappa Nu



Dr. Nick Holonyak, Jr.
1994 Winner
Vladimir Karapetoff Eminent Members' Award



Also Featured:

**Gamma Mu's Certificate
of Merit Report**



Editor and Business Manager
J. Robert Betten

August 1994
Vol 90 - No. 4

Contributing Editors
Nancy T. Hantman
Thomas A. Kanneman
Alan Lefkow
Ralph J. Preiss
Malcolm Romeiser



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Kappa Iota Chapter Installed Embry-Riddle Aeronautical University Prescott, Arizona

by
Dr. Malcolm Romeiser



Kappa Iota Initiates

Embry-Riddle, Prescott is a small, private, undergraduate institution nestled in the mountains of Arizona. The university specializes in aeronautical sciences, including aero and electrical engineering. The Electrical Engineering program received ABET Accreditation on its first try this past year. The EE Department is small but the faculty was anxious to establish an honor society chapter as soon as possible.

On Sunday, April 24, 1994, Kappa Iota Chapter was installed at Embry-Riddle, Prescott. There were nine charter members. The installation and initiation ceremony were followed by a dinner in the school restaurant area for members and guests.

The ceremony began with an introduction by Dr. Henry L. Ablin, a past International Board member, cur-

rently on the faculty at Northern Arizona University, Flagstaff. The revised ceremony was used with the recently inducted President, Mike McLellan, acting as Wheatstone. The parts of Faraday, Ampere, Ohm, and Volta were taken by Dr. Ablin, Chapter Advisor Mac Romeiser, Dr. Chuck Cone, and Mason Menninger.

The Charter members of Kappa Iota Chapter, and their officers, are: Roberta Eldred (Corr. Secretary), Jennifer Guston (Vice-President), Terry Holoun, Michael McLellan (President), Mason Menninger (Rec. Secretary), Craig Phillips, Michael Pitman (Treasurer), Bryan Reeves, and Kristie Solomon.

Certificates were awarded by Dr. Ablin; and the EE Department Chair, Dr. Ray Bellem, welcomed Eta Kappa Nu-Kappa Iota to the campus.

Princeton, NJ...

OYEE AWARD DINNER

by Ralph J. Preiss
Chairman, Award Organization Committee

Eta Kappa Nu's fifty-eighth annual awards banquet was held on April 25, 1994 at the Princeton Marriott at Forrestal Village in Princeton, New Jersey. Dr. Irving Engelson, a member of the Awards Organization Committee, served as Master of Ceremonies with his usual clever wit, while Dr. David Meyer, President of the Eta Kappa Nu Association, gave the welcoming speech and presented the awards.

In addition to the outstanding young electrical engineer awards, the recipient of the Vladimir Karapetoff Eminent Members' Award was honored at the banquet. This year, Nick Holonyak, Jr., Professor of Electrical Engineering at the University of Illinois at Urbana-Champaign, was the recipient of this lifetime achievement award. He is credited with having invented the light-emitting diode which is in widespread use in the digital readouts of many consumer products, (See Karapetoff article elsewhere in this issue.)

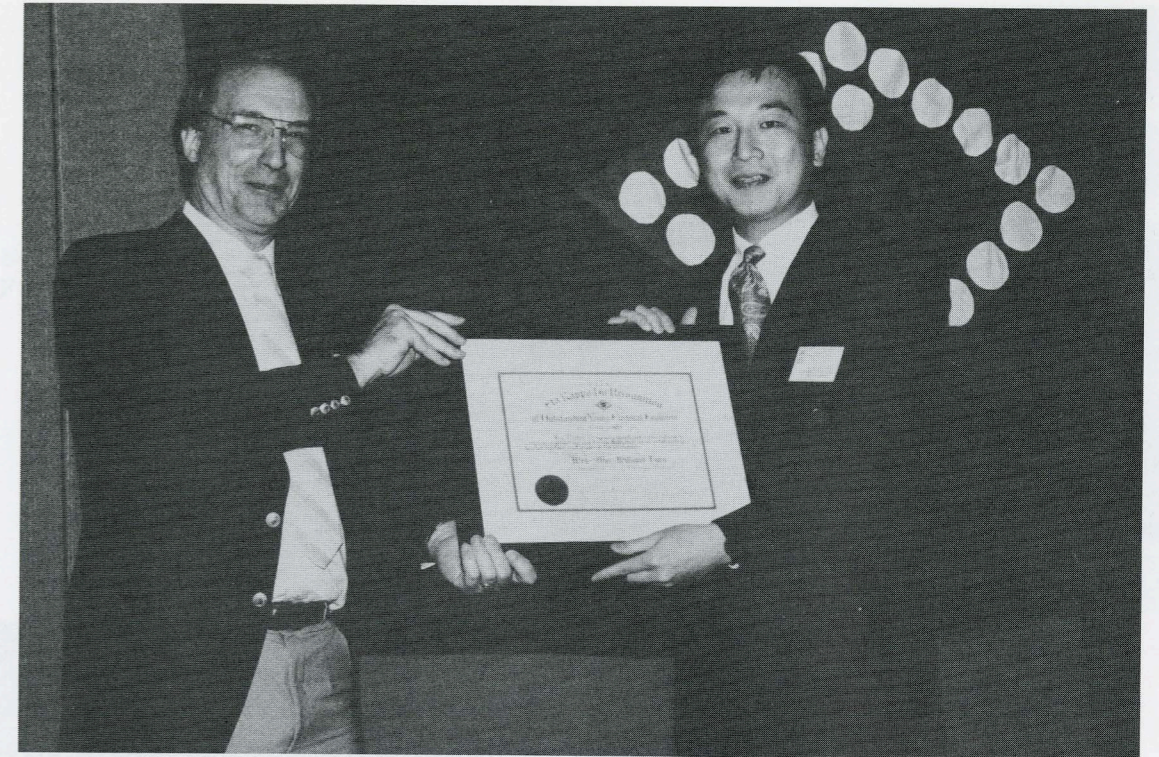
Guests began to arrive before 6:00 PM and congregated outside the banquet room, where Mrs. Fern Katronetsky, a key member of the banquet committee, had set up a table displaying the certificates to be awarded that evening and the bowl on which the fifty-eight winners' names are inscribed, together with a small replica bowl for presentation to this year's outstanding young electrical engineer. Refreshments and a no-host bar were available for use while greeting old friends and acquaintances, or meeting the new awardees.

In addition to greeting most of the awardees and some of their families, I was able to greet Mrs. Carla Wilkinson and many members of the Awards Organi-

zation Committee before it was time to be seated at our tables. These included Don Christiansen, Mark Adamiak, Michael Hajny, Bob Bartolini, Bert Sheffield, Will Groth, Jim D'Arcy, Joe Strano, and of course, M/C Irv Engelson. I had spoken with others earlier in the week, like Jim Hebson, Cecelia Jankowski, Kurt Trampel, and Quayne Gennaro, who wished the new awardees their best, but because of business-related commitments, they could not be present at the banquet.

Larry Dwon sent a note greeting all, and indicating his being able to work quite well with his new word processor, despite his stroke-caused disability. By the way, retiring from the workforce this year are Kurt Trampel and Clare Baldwin; but both agreed to stay on the Awards Organization Committee. The officers for the 1994 awards will be Bob Bartolini, Chair; Ralph Preiss, Vice-Chair; Cecelia Jankowski, Secretary; Jim D'Arcy and Irv Engelson, Banquet Committee.

After the dinner and before the Karapetoff award was presented, David Meyer spoke about the Eta Kappa Nu Association. Then Irv Engelson introduced the three new finalists and their nominators who then came up to the podium to receive their finalist certificates from David Meyer. These three included Scott Campbell of the NCR Corporation in Dayton, Ohio, who was accompanied by his nominator, Roy Kuntz, Director of Technology Investment for NCR. This was followed by Paul MacGregor of the General Electric Company in Schenectady, New York, who was accompanied by his nominator, Thomas Garrity, General Manager of the Power Systems Engineering Department. Finally, Steve



Dr. Wen-Mei Hwu receives OYEE Award Certificate from Dr. David G. Meyer, 1994 HKN President

Watkins of the University of Missouri-Rolla was accompanied not by his nominator, but by Bob Betten, a colleague at the University, and Executive Director of Eta Kappa Nu. Finalists, if still eligible in the following year, will be presented to the jury of award without having to be selected again as one of the top ten by the AOC.

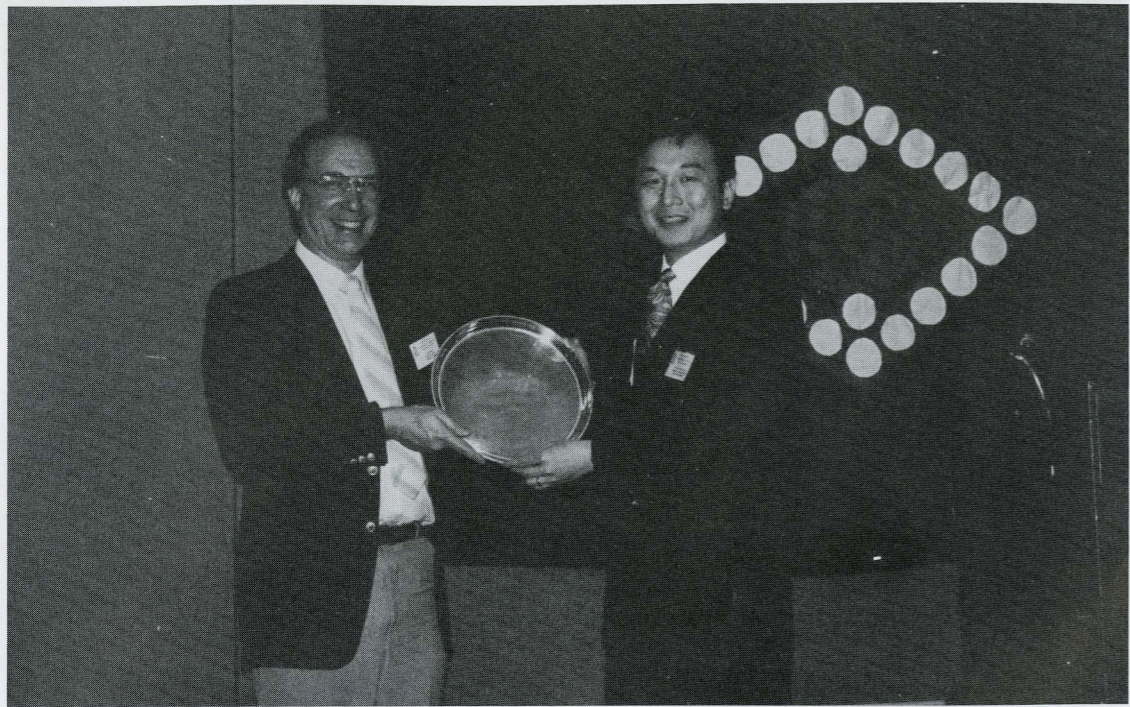
This year's Honorable Mention was a finalist last year, and his dossier was presented directly to the jury. He is Dr. Christopher P. Yakymyshyn who was at the GE Research and Development Center in Schenectady, New York until last summer, when he transferred to ABB Transmission Technology Institute in Raleigh, North Carolina. However, since he was nominated by Dr. Kirby Vosburgh of GE for the work he did for that company, he was introduced by his nominator at the banquet. Dr. Vosburgh stated that he was very impressed by a high-school kid from Canada, who presented a paper in 1980 at the IEEE Society for Information Display on a piezoelectric display the kid had developed. Vosburgh kept his eye on Chris ever since, inviting him to the laboratory as a summer intern in 1981. After receiving his Ph.D. from Cornell in 1989, Chris joined the laboratory as a full-time researcher. The rest is history. In his acceptance speech, Dr. Yakymyshyn thanked the laboratory and his colleagues

for having given him the extraordinary opportunity to work on solving leading edge problems. By now working in Raleigh, it provides the opportunity for his wife to further her studies in North Carolina.

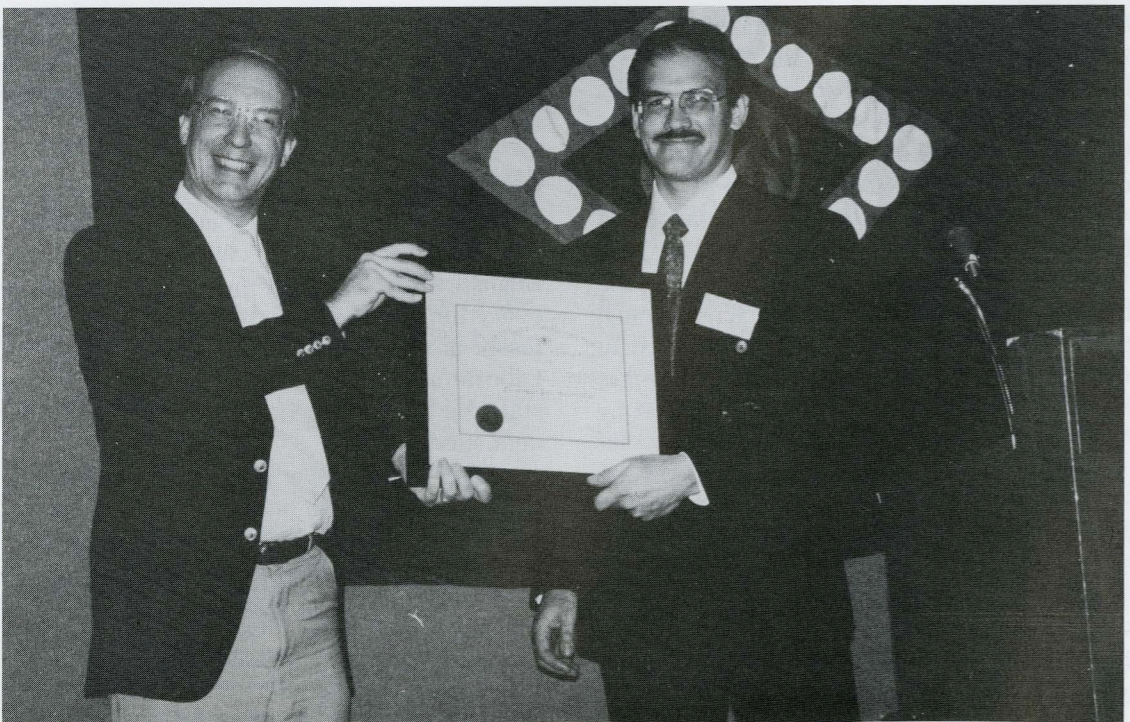
The 1993 Outstanding Young Electrical Engineer was introduced by a former professor of his, Yale Patt. Professor Patt was impressed with Wen-Mei Hwu right from the start as a Ph.D. candidate. He spoke very little English when they first met, but he had an answer for everything. Now, Wen-Mei Hwu is an Associate Professor at the University of Illinois Coordinated Science Laboratory, and is well spoken and is one of the outstanding teachers at the University, according to a student survey.

After David Meyer presented the certificate and the small Eta Kappa Nu bowl to Hwu, Irv Engelson read a letter of greeting to Dr. Hwu from President Clinton. In his acceptance speech, Professor Hwu thanked all who had confidence in him and who had helped him throughout his career. He thanked especially his wife, Sabrina, who had seen him through both the hard times and the good times.

The formal part of the banquet was then adjourned and the evening banquet concluded with further socializing.

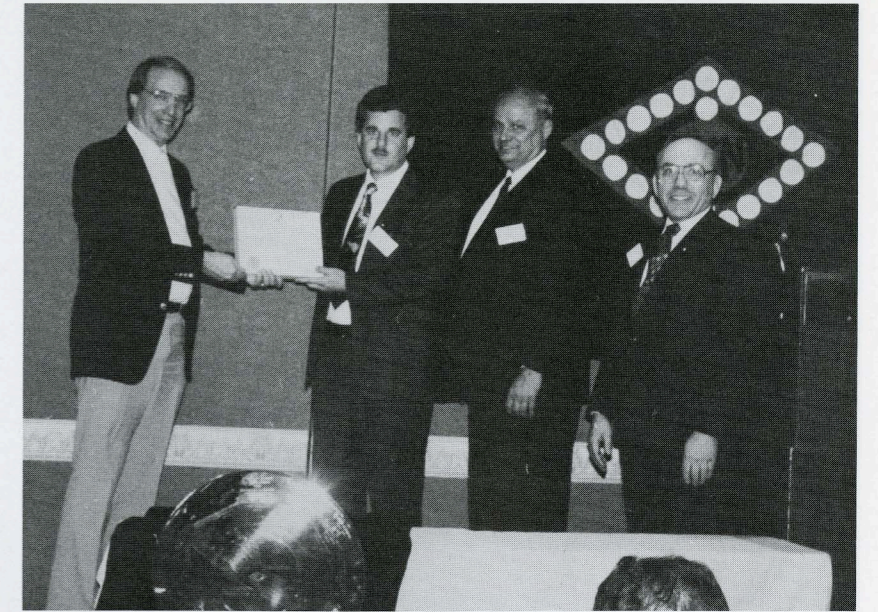


Dr. Wen-Mei Hwu receives Commemorative Bowl from 1994 HKN President, Dr. David G. Meyer



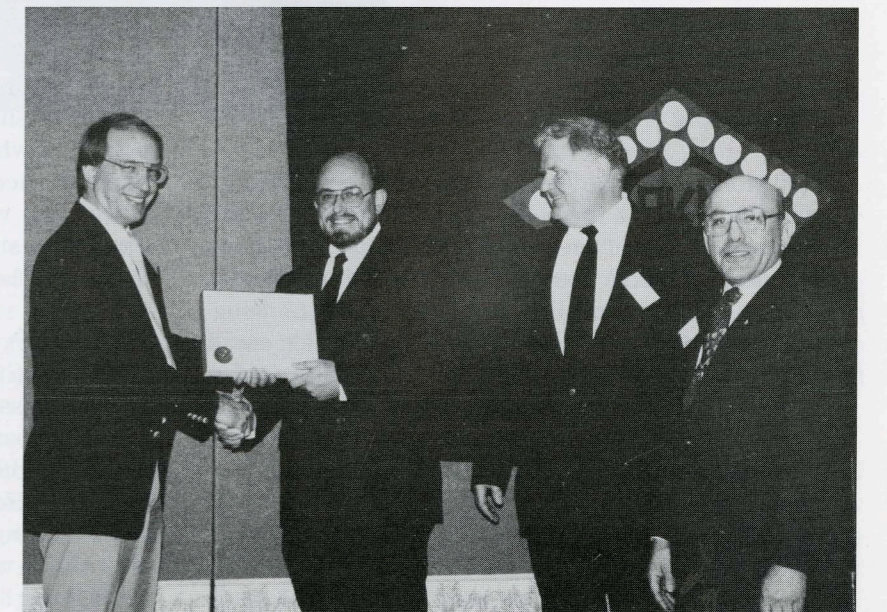
HKN President Meyer presents Honorable Mention Certificate to Dr. Christopher P. Yakymyshyn

Scott Campbell receives Finalist Certificate from President Meyer



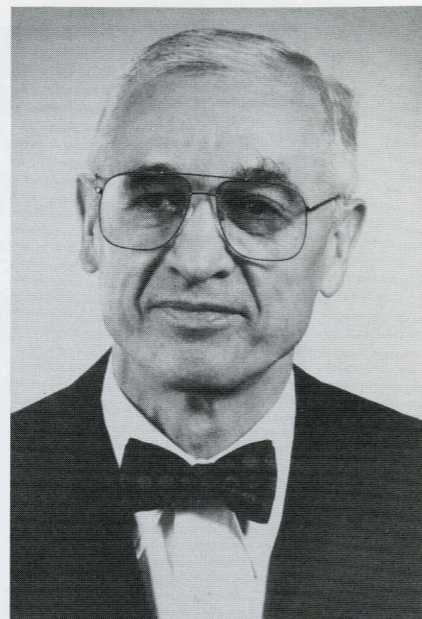
David Meyer presents Finalist Certificate to Paul MacGregor

Steve Watkins receives Finalist Certificate from Dr. Meyer



Nick Holonyak, Jr.
is
1994 Winner
Vladimir Karapetoff
Eminent Members' Award

by
Nancy T. Hantman



Nick Holonyak, Jr., the John Bardeen Chair Professor of Electrical and Computer Engineering and Physics at the University of Illinois, received the Eta Kappa Nu, Vladimir Karapetoff Eminent Members' Award at a ceremony in Princeton, N.J., on April 25. Dr. Holonyak was the third recipient of the award, HKN's most prestigious honor for career contributions. It is made in recognition of an invention, development, or discovery in the field of electrical engineering that has had a major impact on society through the improvement of the standard of living, the public welfare, and/or global stability.

He was recognized for his important discoveries and inventions in the area of semiconductor electronics and photonics, with emphasis on solid-state lasers and light emitters. Among his prominent inventions was the light-emitting diode that is widely used in digital read-outs in a variety of consumer and other electronic products.

Dr. Holonyak also developed the first semiconductor laser to operate in the visible spectrum, and the basic control element used in light dimmers. Among his recent developments are gallium arsenide lasers that are grown epitaxially on silicon substrates.

A recipient of the National Medal of Science and a Fellow of the IEEE and the APS, Dr. Holonyak was also elected to the National Academy of Sciences, the National Academy of Engineering, and the American Academy of Arts and Sciences. He has written or co-authored some 350 technical papers, and has been awarded 15 patents. He has been active in both the IEEE and APS as an author and conference organizer, and in awards recognition activities.

Among Dr. Holonyak's many professional awards are the (IEEE) Jack Morton Award, the Morris Leibmann Award, and the (IEEE) Edison Medal. He received the B.S., M.S., and Ph.D. degrees from the University of Illinois.

He was a member of the technical staff at Bell Telephone Laboratories and later joined General Electric as a physicist, ultimately becoming manager of the company's advanced semiconductor laboratory. Dr. Holonyak has served as a consultant to numerous industrial organizations, including Monsanto, GTE, Xerox, and Ameritech. He became professor of electrical engineering and materials research at the University of Illinois in 1963.

Dr. Holonyak was nominated for the Karapetoff award by Professor Joseph T. Verdeyen, a colleague at the university. Professor Verdeyen spoke of Holonyak as a man who "shaped our lives by virtue of his many technical accomplishments." Verdeyen also noted that Holonyak was "an excellent teacher," frequently praised by students for his preparation, delivery, enthusiasm, and lab work.

HKN President David G. Meyer presented the award certificate and honorarium to Holonyak, who then addressed the attendees. "I feel lucky," he said, because his parents insisted on education for him and his sister. The child of immigrants, he had to learn English in school. He had found that "school is really the portal to everything" and credited Bardeen with showing him that there were even higher levels to education and with giving him the opportunity to try and to succeed.

Dr. Nick Holonyak
receives Eminent
Members' Award from
HKN President
Dr. David Meyer



Dr. Holonyak is accompanied by
Professor Joseph T. Verdeyen at
left and Donald Christiansen at
right

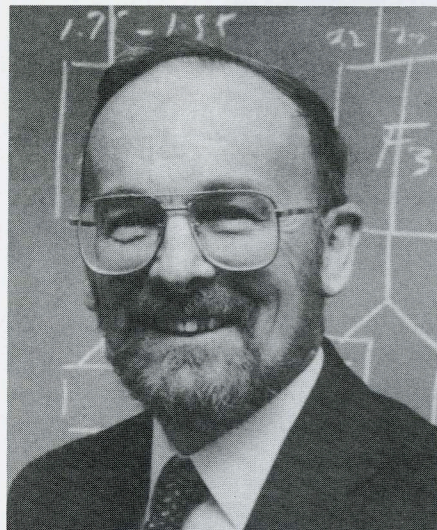
Dr. Holonyak, referring to his own early paper on semiconductor lasers (*The Bridge*, Winter 1965), predicted that light emitters would go even further than lasers had. He looks to young engineers to carry on the work.

The Vladimir Karapetoff Eminent Members' Award was established in honor and through the estate of Vladimir Karapetoff, an Eminent Member of Eta Kappa Nu and a Fellow of the IEEE. The fund to support the award was initiated through a bequest by Dr. Kara-

petoff's widow, R. M. Karapetoff Cobb, herself a distinguished chemical engineer. Dr. Karapetoff emigrated from his native St. Petersburg, Russia, in 1902, became a U.S. citizen in 1909, and was a professor at Cornell University until his retirement in 1939.

The Karapetoff award is administered by the HKN Eminent Members' Committee. Nominations are now being accepted for the 1995 award. They may be sent to Mr. Donald Christiansen, Chairman, VKEMA, 434 West Main Street, Huntington, N.Y. 11743; Fax 516-385-4940.

NEW OFFICERS AND DIRECTORS



Bruce P. Johnson
President

Born in Lewiston, Maine on August 8, 1938, Bruce attended Bates College where he majored in Physics, developed an interest in electronics including building stereo systems out of World War II surplus electronics, and played varsity tennis for two years. Graduation from Bates in 1960 took him to the University of New Hampshire, Durham where he was a teaching and research assistant and held a National Science Foundation Fellowship. His specialization at UNH was in the area of solid state transport properties of semiconductor materials at elevated temperatures. The M.S. degree in Physics was completed in 1963.

In 1962, he joined the faculty of the Department of Physics at Hobart and William Smith Colleges in Geneva, N.Y. teaching all levels of undergraduate Physics and supervising undergraduate research on the dielectric and optical

properties of materials. In 1964, Bruce enrolled for the Ph.D. at the University of Missouri, Columbia. At Missouri, in addition to being a teaching assistant, he received a Stewart and a National Science Foundation Fellowship. The dissertation research area was on color centers in single crystal strontium oxide, a material used in oxide coated cathodes for efficient electron emission.

The completion of the Ph.D. in Physics in January of 1967 took him to the Advanced Engineering Laboratory of General Electric's Medical System Division in Milwaukee, Wisconsin. The work at GE, Milwaukee was on non-conventional x-ray imaging systems including semiconductor-electroluminescent sandwiches and x-ray luminescent fiber optic imaging systems. In December of 1969, he transferred to the Lamp Division of General Electric at Nela Park in Cleveland, joining a new GE effort to develop solid state lamps. Responsibilities at GE included managing a group of scientists and engineers doing research and development on light emitting diodes and displays. When GE transferred this effort to Syracuse, N.Y., in 1974, Bruce decided to return to teaching and academic research. He joined the faculty of the Electrical Engineering Department at the University of Nevada-Reno as an Associate Professor with responsibilities for courses in integrated circuit design, device electronics, electromagnetic fields and computer engineering. In 1978, he was elected chairman of the Department and served through 1983 with promotion to full professor in 1981.

With the generous assistance of Eminent Member Marcus Dodson, the Theta Psi Chapter of Eta Kappa Nu was created at UNR in 1982. Bruce has been the Chapter Advisor since its founding. He served on the Board of Directors of Eta Kappa Nu from 1990 to 1992 as the Western Director and as Vice-President in 1993-94.

President Jimmy Carter appointed Bruce to the United States Metric Board from 1978-80 and from 1980-82 as he served two terms including chairman of the USMB research committee. Active as a senior member in IEEE, he has served as student chapter advisor, chairman of the Northern Nevada Section, Region 6 Central Area Student Activities Coordinator, and from 1991-1994 as the Region 6 Student Activities Chairman. A term as President of the Northern Nevada Chapter of Sigma Xi, the Scientific Research Honor Society, occurred in 1984. For several years he has been active in the Nevada Innovation, Technology and Entrepreneur Council serving as member and chair of the Nevada Inventor of the Year Committee. Other professional associations have included Sigma Pi Sigma (Physics honor society), American Society for Engineering Education, American Physical Society, Electrochemistry Society, and the International Association of Science and Technology for Economic Development.

In 1991, he was elected to a second term as chairman of the Electrical Engineering Department. Through the years at UNR, he has served on the Faculty

Senate including the Faculty Senate Executive Committee, the Graduate Council, the Graduate Research Advisory Board, and many campus, college and department committees. He was co-chairman of the International Symposium on Recent Advances in Microwave Technology held in New Delhi, India in December, 1993 and is a member of the international advisory committee planning the next meeting in Russia in 1995.

Present research interests center on high frequency electronics including CAD modeling of electronic devices and circuits and intelligent vehicle highway systems. Bruce has over 50 publications and has been involved in a wide variety of funded research from agencies such as NSF, AFOSR, NASA, and several private companies. A recent project he is working on involves developing a radar module to laterally guide a vehicle along the automated highway of the future with no driver intervention. This project is funded by the California Department of Transportation. He recently completed another project funded by the Federal Strategic Highway Research Program which involved instrumenting a truck tire with a video camera that monitored the internal rib deformation as the tire encountered different surface characteristics. This approach represents a novel method for real time data collection of pavement condition at high driving speeds.

Bruce has been married to his wife Marcia since 1961. Marcia is a registered nurse and a care manager at the local Rehabilitation Hospital. They have four children, two boys and two girls, with Sam and Becky attending UNR, Michael the Chef at a Reno casino, and Robyn who recently finished her Ph.D. in psychology at the University of Southern California.



Michael R. Hajny
Vice-President

Michael Hajny is a Registered Professional Electrical Engineer with over twenty years experience in power measurements, metering, system losses, demand side management, wheeling and interconnected power pool operation, data telemetry, supervisory control and data acquisition (SCADA) systems, and energy management systems (EMS). He has fifteen years experience with a major electric utility holding company, four years experience with major manufacture of power measuring equipment, and one year experience with a major manufacture of weighing, load transducers and scales.

Michael received his B.S.E.E. Degree from Santa Clara University in 1970. He received his M.S.E.E. Degree from the University of Michigan, Ann Arbor, in 1973.

Michael is a Registered Professional Engineer in the States of California, New York, Ohio and South Carolina. He has a General Radiotelephone Operator's License in the Commercial Service of the Federal Communications Commission, and he has an Extra Class Operator's License in the Amateur Service (NC8Z).

Michael attended the American

Electric Power System's Management Program at the Graduate School of Business Administration, the University of Michigan in 1980. He attended General Electric Company's Power Systems Engineering Course (PSEC) in Schenectady, New York in 1977-1978. He attended the Quality Institute, ISO 9000 (Q90) Quality Systems Training Programs of the University of South Carolina, Spartanburg, including the programs for Documenting An ISO 9000 (Q90) Quality System, and Internal Auditor Training.

Michael is a Principal in Metering Engineering, Inc., which provides world wide engineering and management services related to metering (engineering, operations practices, budgets, human resources, policies and procedures), system losses, demand side management, data telemetry, SCADA systems, and EMS.

At Mettler-Toledo, Inc., a world wide leader in the manufacturing of weighing instruments, Michael lead the research and new products development department. A wide range of scales and force transducers were developed and supported. Capacities of various models ranged from a few grams to tens of tons. Accuracies ranged from 1 part in 100 to 1 part in 20 million. This work involved liaison with associated research and development groups in Brazil, China and Switzerland.

At American Electric Power Service Corporation (AEPSC), from 1973 to 1988, he was responsible for the engineering, design, procurement, installation, start-up, and training associated with all revenue metering, meter record systems, demand side management, system losses, data telemetry, SCADA, power plant computers, and generation control. This included expense, capital and lease budgets; policies and procedures; procurement; and,

technology planning. While at AEP, five major SCADA, power plant, and generation control systems were developed and brought on line.

At Scientific Columbus, Inc., from 1988 to 1992, he was responsible for research, development of new products, moving new products into manufacture, and ongoing support of products. Scientific Columbus is a leading manufacturer of high accuracy multifunction revenue electric meters, laboratory and field standards, transducers, and associated personal computer based data systems.

While at American Electric Power and at Scientific Columbus, Inc., Michael was a leader in the development and updating of metering standards published by the American National Standards Institute (ANSI), New York City; the International Electrotechnical Commission (IEC), Geneva; and, the Legal Metrology Branch of the Canadian government. He represented AEP and Scientific Columbus to the ANSI and Canadian Standards meeting. He represented the United States to the 1990 General Session of the IEC metering Standards meeting in Beijing, China.

In the mid 80's he spear-headed the multi-utility, multi-manufacture task force that developed and implemented the bar coding of meters and instrumentation transformers for electric utilities. He consulted to the transmission and distribution groups on the corresponding bar coding of high power and distribution transformers.

Michael has been involved in the revision of many ANSI metering standards, particularly: C12.1, Meter Performance Testing; C12.10, Electromechanical Watthour Meters; C12.13, Time of Use Meters; C12.16, Solid State Electricity Meters; and, C12.17, Solid State Cartridge Recorders.

Michael was also active in the U.S., Canadian and International developments of standard communication protocols for metering. In the mid 80's he was a member of an Edison Electric Institute's committee that prepared and proposed a standard on metering communications. In the early 90's he was Chairman of the Data Protocol Working Group of the Legal Metrology Branch of Industry and Science Canada (the Canadian equivalent of the U.S. National Institute of Standards and Technology). In the early 90's he represented the U.S. (manufacturers, utilities, and regulatory agencies) to the Working Group 14 (Communication Protocols) of Technical Committee 13 (Metering and Load Control Devices) of the IEC.

Michael has extensive experience in the whole range of utility operations, and the interrelations of the various groups. At Metering Engineering, Inc., AEPSC, and Scientific Columbus, Inc., he worked closely with System Operations, System Planning, Customer Accounting/Billing, Information/Computer Systems, Division Operations, Purchasing, Finance, Legal, Rates Research and Design, and Public Affairs Departments.

From 1980 to 1988 Michael was very active in the Edison Electric Institute's Meter and Service Committee. He lead various investigations, and, as previously mentioned, was a member of the committee which prepared and proposed a standard protocol for metering communications.

Michael was inducted into Tau Beta Pi while at Santa Clara University. He was inducted into Eta Kappa Nu while at the University of Michigan.

He is a Senior Member of the Institute of Electrical and Electronics Engineers, and is an active member of the Power Engineering Society, and the Instrumentation

and Measurements Society. He is a Past Chairman of the Power Engineering Society's Columbus, Ohio Chapter.

Michael is a member of the International Conference on Large High Voltage Electric Systems (CIGRE), Paris. He co-wrote a paper published in the CIGRE Journal *Electra*.

Michael has also written papers presented at the Distribution Automation and Demand Side Management Conference, the American Power Conference, the IEEE Winter Power Meeting, the American Public Power Association Conference, the Canadian Electric Association, the North Carolina Meter School, and the Pennsylvania Electric Association.

Michael is a member of the American Consulting Engineers Council (ACEC), and the Consulting Engineers of South Carolina (CESC).

In addition to extensive work in Canada and the United States, Michael has also worked in China, France, India, Russia, Spain, Switzerland and Ukraine.

Michael has been very active in Eta Kappa Nu. In the early 70's, as a young engineer in New York City, he worked on the annual Awards Banquets for HKN's Outstanding Young Electrical Engineer (OYEE) award. From 1985 to 1987 he served on the Board of Directors of Eta Kappa Nu. In the late 80's he represented HKN headquarters at the installation of the Eta Kappa Nu Chapter at the University of Dayton, Dayton, Ohio. In the early 90's, he was the Chairman of the Award Organization Committee (AOC) that administers the OYEE award. He is presently a member of the AOC.

Michael's election as the 1994-95 Vice President of Eta Kappa Nu is a continuation of his many years of service to HKN.



Karl E. Martersteck
Director

Karl E. Martersteck is currently Vice President, AT&T Architecture, AT&T Bell Laboratories. The Architecture Area works with AT&T Business Unit planners to support the planning across Business Groups/ Business Units to enable AT&T's strategic intent, in particular by identifying and defining opportunities to utilize emerging technologies. It also provides leadership in generating standards strategies reflecting AT&T business needs and priorities.

After serving in the U.S. Navy as a destroyer chief engineering officer, Mr. Martersteck joined AT&T Bell Laboratories in 1959 as a member of technical staff and worked on developing silicon devices and integrated circuits. From 1964 to 1972 at Bellcomm, Inc. in Washington, D.C., he led mission planning and systems analysis for the Apollo lunar landing and the Skylab projects. Upon returning to AT&T Bell Laboratories in 1973, he was responsible for systems engineering, design and development of operations software systems. From 1977 to 1982, he

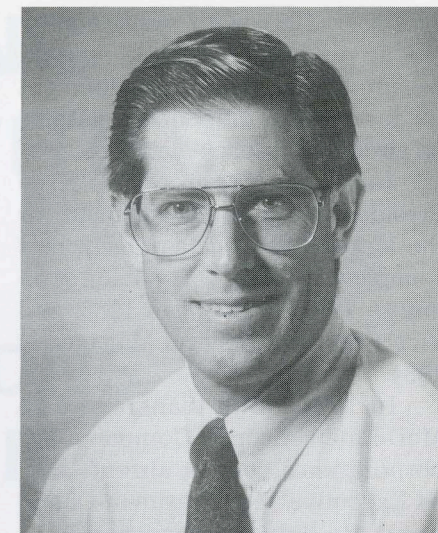
directed the development of various digital switching systems, principally the 4ESS Toll Switch. In 1982 he assumed responsibility for the development of the 5ESS Digital Switch which has become the AT&T flagship switching product and widely deployed throughout the U.S. and around the world.

In 1989, Mr. Martersteck was appointed Vice President, Network Development, with responsibility for architecture and systems engineering as well as operations software development to support the AT&T global network. Following an assignment assisting in the redefinition of the AT&T Bell Laboratories with emphasis on accelerating the flow of new technology into AT&T products and services, he assumed his present position in 1992.

Mr. Martersteck received a Bachelor of Science degree in Physics from the University of Notre Dame in 1956, and the Master of Electrical Engineering degree from New York University in 1961.

He is a member of the National Academy of Engineering, a Fellow of the IEEE and a member of the IEEE Computer Society and Communications Society. He serves as a member of the Board of Overseers of Armour College of Engineering of the Illinois Institute of Technology as well as being a member of the Board of Trustees at North Central College, Naperville, IL. In addition, he serves on the Boards of Directors of the International Engineering Consortium, the American National Standards Institute, the Corporation for Open Systems and Eta Kappa Nu Electrical Engineering Honor Society.

In 1988 Mr. Martersteck became the first recipient of the IEEE Medal for Engineering Excellence.



John D. Wolf
Director

John D. Wolf is Executive Vice President of the Douglas Aircraft Company division of McDonnell Douglas Corporation in Long Beach, California. In the post since April 1991, he is responsible to the President and the company's airline customers for Douglas commercial transport aircraft activities, providing leadership to the functions of marketing, development, product support and achievement of financial performance for commercial aircraft.

John joined McDonnell Douglas in 1963 as a cooperative engineering student while an undergraduate at University of Missouri-Rolla. He became a full time employee after earning his BSEE in 1967. He continued studies at Rolla to win his MSEE in 1968.

His first full-time assignments were as associate engineer in the McDonnell Douglas Astronautics Company, on U.S. Air Force weapon system studies. In 1970, he was made Task Leader, Systems Integration, for acquisition and tracking equipment in the company's laser communications program. Through the years, he took on increasing responsibilities in laser communications and became deputy program manager in 1978. John was named Deputy Director-Laser Communi-

cations in 1981, with responsibility for advanced concepts, system design, and hardware development for laser communications systems on aircraft and space platforms

John was promoted to Vice President-Program Management for the McDonnell Douglas Electronics Company in 1982; was named Executive Vice President in 1983, and Vice President-General Manager in 1984

In 1986, John transferred to McDonnell Aircraft Company, the corporation's combat aircraft arm, as Executive Vice President-Operations. He held that position until moving to the Douglas commercial aircraft division in 1989 as Vice President-General manager of the MD-90/MD-80/DC-9 twin jet programs.

At Douglas, John led the twin jet team in developing and implementing new approaches to manufacturing. The result was dramatically improved production processes that yielded significant reductions in assembly span times and costs, and major gains in quality, on-time deliveries and customer satisfaction.

The effect of those changes is illuminated by the highly successful design and development of the MD-90, a new mid-size, medium range jetliner that will go into airline service in 1995. Throughout the development and flight test activity since the program was launched in November 1989, the MD-90 has met every major milestone on or ahead of schedule.

As the newest in the long line of Douglas twin-engine airliners, the MD-90 is establishing itself as the industry's most environmentally friendly aircraft. Flight tests for certification by the Federal Aviation Administration have demonstrated

MD-90 community noise levels substantially lower than any other aircraft in its class—as much as 22 decibels below FAA limits. In addition, engine exhaust emissions are well under allowable standards; in the case of hydrocarbon emissions, 98.5 percent below the guidelines of the International Civil Aviation Organization.

The MD-90 will complete flight testing this year, with the FAA type certificate expected in November, with airline deliveries to begin early in 1995. The first production aircraft are in assembly now, using an advanced modular assembly process developed during John's tenure as vice president of twin jet programs. The same new techniques will be extended to manufacture of MD-80 aircraft, as both jetliner types continue in production.

In his present role, John also oversees the company's product support activity, which provides 24-hours-a-day technical assistance and spare parts provisioning to airlines and other operators of Douglas commercial aircraft around the world. A network of field representatives and several hundred support people at the Long Beach plant give any needed aid to customers flying any Douglas airplane, from early DC-3s to the most recently delivered MD-11s.

In addition, John has cognizance over marketing and business development efforts, including market research in support of new designs—such as the MD-95, a proposed 100-seat twin jet model now far along in product definition and attracting the interest of many airlines.

Throughout his career, John has been active in technical societies and industry associations and has

published a number of technical papers. His personal contributions have been recognized with honors that include selection as an AIAA Outstanding Young Engineer and a McDonnell Douglas Teammate of Distinction. Most recently, he was recipient of the 1993 Distinguished Engineering Achievement award from the Institute for the Advancement of Engineering. He is also listed in the upcoming edition of Strathmore's "Who's Who Registry of Business Leaders."

John served as General Chairman of the SAE Aerotech '93 national meeting last year, and is General Chairman this year of the 19th Congress of the International Congress of Aeronautical Sciences and AIAA Aircraft Systems Conference, being held in September.

In addition to serving on the Eta Kappa Nu BOARD, John is a member of IEEE and AIAA (both since 1975). He was Deputy Director for Information Systems on the AIAA Technical Activities Committee, 1981-83, and chaired AIAA technical sessions in 1982 and 1983. He was also a member of the Electronic Industries Association, serving on the Government Division Communications Council, 1983-85 and on the Government Division Board of Directors from 1985 to 1989. He also was a member of the EIA Board of Governors from 1987 to 1989.

A native of Norman, Oklahoma, (b. 1944) John is married and father of two sons. His community activities have included membership in the St. Charles, MO, Chamber of Commerce and service on the St. Joseph Health Center Advisory Board, the Tri-County United Way Board of Directors, and the Lindenwood College Board of Directors.

OUTSTANDING CHAPTER ACTIVITIES AWARD CONGRATULATIONS BETA CHAPTER

Twelfth Consecutive Year Winner

by
Alan Lefkow

The Outstanding Chapter-Activities Award program epitomizes the characteristics of a successful member of Eta Kappa Nu. Members' election to Eta Kappa Nu demonstrates their academic ability. But members, working together in concert as a college chapter demonstrate their humanitarian side with their activities of service to their fellow students, their department, their school, and the community at large. In return, the Chapter Award program provides recognition of college chapters for their programs of service to their students and community.

For the academic year 1992-93, seven college chapters received awards for having an outstanding program of activities. Awards are broken into three categories. *Certificate of Merit* winners are recognized as up-and-coming chapters whose programs demonstrate unselfish dedication to their fellow students and community. *Honorable Mention* winners are recognized as truly outstanding chapters whose extensive program of activities stands out from the rest. The *National Winner* is simply that chapter whose program stands out above all these others.

For the 1992-93 school year, seven chapters received recognition for their programs of excellence. Beta chapter of Purdue University copped the National Winner award, their twelfth win in as many years. Beta Epsilon chapter of the University of Michigan, and Iota Xi chapter of the University of Arizona received Honorable Mention awards. Four other chapters were

cited for their meritorious programs and received Certificates of Merit. They were Gamma Mu chapter of Texas A & M University, Delta Pi chapter of Colorado State University, Nu chapter of Iowa State University (*Ed Note: see page 24 for photo of this chapter receiving their award*), and Zeta Pi chapter of the State University of N.Y. at Buffalo.

Outstanding chapters are selected based on their annual chapter report. Any chapter that sends in an annual report is automatically entered into the competition. Reports arrive at National after the end of the academic year and into early fall. They are judged in the winter, and the winners announced by spring. The Chapter Award program is also unique. One winning award can touch the hearts of a whole chapter. The award plaques themselves have been made as rich as possible. The National and Honorable Mention winners receive metal plaques engraved in color. The Certificate winners receive their awards laminated in walnut.

Winning chapters send in reports of distinction that do justice to their programs of activities, and many of these reports have been published in the pages of BRIDGE as examples to others. Desktop publishing and other professional services on campus have contributed to annual reports that look as good as the chapter they portray. A winning report requires hard work, but then so does an outstanding program of activities. Gamma Mu's meritorious report is presented here as an encouraging example of recognized quality.

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Eta Kappa Nu

ANNUAL REPORT

GAMMA MU CHAPTER

1992-1993

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Eta Kappa Nu Association

ELECTRICAL ENGINEERING HONOR SOCIETY

A Letter from the President

I was honored when Eta Kappa Nu invited me to become one of its members. I noticed right away as a candidate that this organization did more than just cycle people through the process. The officers and actives had goals they wanted to achieve and wanted every candidate to become a contributing member after they were inducted.

That was over two and a half years ago. We have since met the goal of my first semester to complete the Video Information Center (VIC). I am proud to walk through the lobby of Zachry Engineering Center and know that I was part of the organization that made the VIC a reality.

Setting and achieving goals is one of the many purposes of the Gamma Mu chapter. We have already started work on our next long term project of creating a park area in front of the Zachry Engineering Center. We believe that there is more to becoming an engineer than understanding theories or learning formulas. We feel that applying the problem solving skills we learned as engineering students to the problems that face the community around us helps develop well rounded individuals as well as qualified leaders.

We take pride in our accomplishments. The following report shows what we have achieved over the past year. It tells of how we interact with one another as fellow Aggies, as engineers solving problems and most of all as friends. I know the spirit of achievement and involvement will continue. I can only hope that future members will enjoy it as much as I have.

John Willis
John Willis

President 1992-1993

1992-1993 GAMMA MU CHAPTER OFFICERS

FALL

PRESIDENT	John Willis
VICE-PRESIDENT	Darren Faulkner
TREASURER	Jeff Harvey
RECORDING SECRETARY	Stephanie Strauss
CORRESPONDING SECRETARY	Jason Arbaugh
BRIDGE CORRESPONDENT/HISTORIAN	Yale Vinson
PUBLICITY CHAIRMAN	Benjamin Stockton
VIDEO INFORMATION CENTER CHAIRMAN	William Ezell
FACULTY ADVISOR	Mr. John Tyler
FACULTY ADVISOR	Dr. Karan Watson

SPRING

PRESIDENT	John Willis
VICE-PRESIDENT	Darren Faulkner
TREASURER	Jeff Harvey
RECORDING SECRETARY	Stephanie Strauss
CORRESPONDING SECRETARY	Jason Arbaugh
BRIDGE CORRESPONDENT/HISTORIAN	Doron Chosnek
PUBLICITY CHAIRMAN	Yale Vinson
VIDEO INFORMATION CENTER CHAIRMAN	William Ezell
FACULTY ADVISOR	Mr. John Tyler
FACULTY ADVISOR	Dr. Karan Watson

SOCIAL ACTIVITIES

The Gamma Mu Chapter of Eta Kappa Nu has always had social activities whose focus has been getting members to interact with fellow students in an atmosphere outside of the classroom.

Eta Kappa Nu Picnic

There was a picnic at Texas A&M's Hensel Park during both the Fall and Spring semesters. The picnic was a casual atmosphere for the candidates to get better acquainted with the officers and other candidates. The picnic included barbecued hamburgers and hot dogs, chips, and soft drinks. Candidates enjoyed playing football, volleyball, frisbee, and baseball.

Candidates were responsible for preparing the picnic and did a great job both semesters. The picnics were both very successful.

Happy Hours

A tradition that began in the Spring of 1992, Eta Kappa Nu happy hours were an excellent opportunity for candidates to gather in an atmosphere away from school. Often used as an evening study break, the happy hours were usually held at a restaurant within walking distance of campus. Taco Cabana was the most popular site, but happy hours were also held at The Dixie Chicken, The Cow Hop, and other restaurants in the North Gate area of the Texas A&M campus. Happy hours were sometimes held at lunch time to avoid scheduling conflicts.

Pool Tournament

A pool tournament was held at Alfred T. Hornback's during the Spring semester. Candidates participated in a double-elimination style tournament. Attendance and enthusiasm were both high.

Induction Ceremonies and Banquets

The Fall induction ceremony was held in December at the Memorial Student Center. This location was chosen instead of a classroom in consideration of the parents who traveled hours to attend the induction. Twenty-six new candidates were inducted, and Doron Chosnek received the Outstanding Candidate Award. His Eta Kappa Nu certificate was matted and framed in recognition of his hard work. About fifty people attended the banquet at Tom's Barbecue.

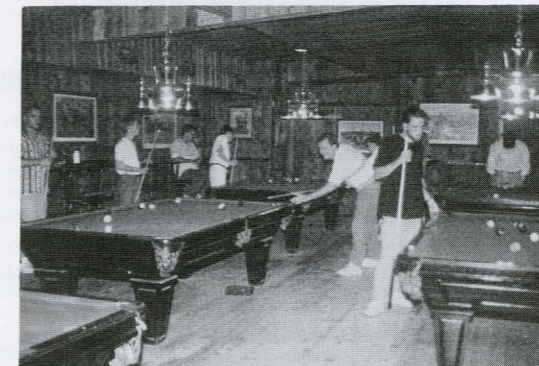
Twenty new candidates were inducted during Texas A&M's Parents' Weekend on April 25. The Spring induction ceremony was held at the College Station Convention Center. Scott Fornero received the Outstanding Candidate Award and had his certificate matted and framed. The banquet was again held at Tom's Barbecue due to the enormous success of the Fall banquet.

SPEAKER MEETINGS

Each year, Eta Kappa Nu provides technical and professional information for candidates and actives in the form of speaker meetings.

In the Fall, Phil Palese, a representative of IBM, gave an entertaining and frank discussion of effective resume writing. Through interaction with the candidates and actives, Mr. Palese provided his audience with examples of good and bad resumes. As junior and senior electrical engineers, the members present realized that graduation would soon be upon them, and found the meeting to be most useful.

In the Spring, a representative from Schlumberger spoke to the chapter on the technology of oil drilling. People attending learned about job opportunities for electrical engineers in the petroleum industry, and discovered that a student should not necessarily channel themselves into a "typical" electrical engineering job. There are many options to be explored. The talk was very informative and technically focused.



"Pool sharking" at Alfred T. Hornback's.



The Induction Banquet at Tom's Barbecue.

COMMUNITY SERVICE

Big Event

Initiated in the Spring of 1993 and destined to become a Gamma Mu tradition, participation in Texas A&M's Big Event project was a fun and rewarding experience. The Big Event is a mass community service effort involving students from every facet of the university. Eta Kappa Nu received the job of yard and exterior work on the house of Mrs. Waynerdy, and elderly Bryan lady. In an all day event, candidates and actives mowed grass, painted, spackled, and patched concrete on the exterior of Mrs. Waynerdy's house. In return for their diligent work, the members received advice from Mrs. Waynerdy on life and its challenges, as well as a special treat. At a breaking point, she read to the group a poem she composed that was recently published in an anthology of American poetry. It was a day that no none would soon forget.



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EDUCATIONAL DEVELOPMENT

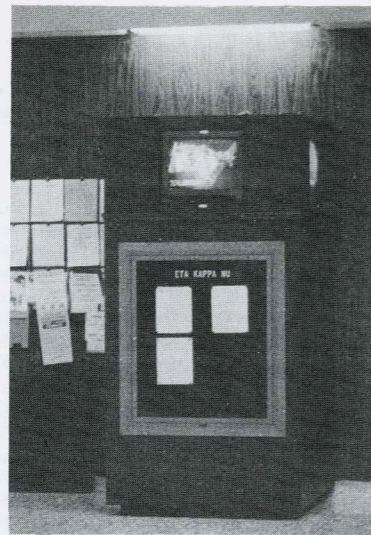
EE Lab Tours

In both the Fall and Spring, two candidates scheduled tours of various labs throughout the department as a minor project. The tours were headed by professors and graduate students who work in the labs and included explanations of equipment and procedures, as well as a description of what undergraduate courses applied to the research currently underway. Some of the more popular tours included the VLSI lab, the microwave lab, and the laser lab.

Tutoring

The tutoring efforts of the chapter have vastly expanded from a tutoring table, or tutor by appointment, to a tutoring center in operation four days a week, three hours a day. Through a joint effort with other engineering honor societies, Gamma Mu provided extensive help for all engineering students, covering many of the lower level courses that are mandatory for all majors, as well as electrical engineering courses. Candidates worked hard on this major project, in the hopes that they could make a difference and perhaps help a freshman or sophomore meet the requirements for Eta Kappa Nu candidacy.

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The Video Information Center (VIC).

Video Information Center

After its implementation in the Spring of 1992, the Video Information Center (VIC) has undergone some changes and remains a vital part of the Zachry Engineering Center. Cable was installed to the system in the Fall, and CNN Headline News keeps students informed of the events of the world around them.

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MAJOR ACCOMPLISHMENT

Freshman Survival Guide

In the Fall of 1991, the Freshman Survival Guide (FSG) was proposed as a way to make the transition from high school to college a little easier to manage. Based on a booklet compiled by the HKN chapter at the University of Houston, the candidates of that semester set out to "Aggieize" the guide. As it went to press in the Spring of 1993, the FSG far exceeded the expectations of that original group and became an integral part of the electrical engineering freshman orientation program at Texas A&M.

The driving force of the FSG project was active Tammy Gray and her assistant, active Teresa Hinojosa, who co-chaired the committee in the final year of development, and eventually brought the guide to press. The FSG covers virtually every aspect of freshman life, and even offers some words of wisdom from some students and faculty. The guide itself is comprised of four major sections: Academics, Social Activities, Parking and Additional Information. Each of these topics is briefly described below.

Academics

The most extensive section of the FSG covers the academic side of college life. It suggests ways to handle a class with 300 to 400 people and not feel like a number, as well as an assurance that classes do get smaller as the student progresses. It also alerts the students to dangers of falling behind in a class that has no homework due or no set assignment schedule. Additionally, the guide offers study techniques and tips that have helped many Eta Kappa Nu members not only pass but succeed in their academic careers. One of the more useful aspects of the FSG is the section describing the five areas of concentration in the electrical engineering department. This section gives an accurate but easy to understand description of the different sections of the

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curriculum that everyone must choose from in order to graduate. In introducing these areas during the freshman year, it gives the students plenty of time to explore before the ultimate decision is upon them.

Social Activities

This section of the FSG tells the students to avoid becoming an "engineer" and to experience "the other education." From intramural sports to the Dixie Chicken (a traditional Aggie hangout), the guide covers several aspects of the social scene, including the ever important "ways to get good football tickets before your friends do." At the end of this section, there is a warning that too much partying can lead to serious trouble, and will most likely result in a ticket home. Still, a major part of college life is social development, and this section accurately and honestly portrays the subject.

Parking

One of the more humorous sections of the guide informs students of the evils of the "Parking Gestapo." Parking has long been a problem at Texas A&M, and tickets and towing are a common occurrence that every student must regrettably face. This extensive part of the FSG tells students where and when they are safe to park on campus, as well as where they should never park, unless of course they don't mind paying the extensive towing fees. When the student inevitably gets a ticket, the guide even discusses where to go to take care of it and the consequences involved with not paying the fine. Parking on this campus is a nightmare, but at least the guide makes the system understandable.

Additional Information

This final section is filled with useful and useless, but funny, information that could prove useful to the freshmen. It includes a page on

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FUND-RAISING

Car Wash

The most active fund-raiser of the semester is the car wash. In the Fall, the car wash was held at the Bombay Bicycle Club parking lot and netted approximately \$150. The candidates all participated in a day of fun and hard work that raised funds for other chapter events throughout the rest of the semester.

Finance Committee

The finance committee was headed up by Treasurer Jeff Harvey, and had another successful year of fund-raising. A total of thirteen candidates worked diligently to contact companies in industry in a effort to fund the many projects, both current and future, that the organization has planned.

The candidates developed a personal relationship with the representatives of the different companies, keeping them abreast of the chapter activities and goals for upcoming semesters. An extensive budgetary breakdown accompanied the solicitation package, so that the contributors could see how their money was being used. Several candidates received job and co-op offers from the companies that they worked with on the finance committee.

As a result of their efforts, the finance committee collected nearly \$2000 during the academic year, with a few promising prospects for summer contributions.

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common terms used by students at Texas A&M that most people have never heard of (like "Bad Bull" and "two percenter") as well as some terms that engineering students use that have become common vocabulary. There is also a section on the many engineering organizations at Texas A&M and their membership requirements. The last page of the FSG is a page of quotes from different sources that are some ideas to think about as the freshmen begin their journey through Aggieland.

The FSG will continue to be a worthwhile project long into the future. The production crew of candidates Jon DeShazo and Randy Pond have left the guide on disk for the chapter to update and maintain for many years to come. The electrical engineering advisors have found the guide both useful and well received by the freshman class at its first distribution during the Summer of 1993. During that Summer, several other engineering advisors approached HKN about setting up a similar guide for the different departments in the College of Engineering.

Freshman Survival Guide



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GENERAL ACTIVITIES

HKN T-Shirts

Each year, the Gamma Mu Chapter designs new T-shirts for the candidates. A committee of candidates works together on the design, and the rest of the candidates then vote on it. The T-shirts are funded by a percentage of the dues. Candidate Kishna Wristers created the design that was used during both the Fall and Spring semesters.

Actives List

In order to have an accurate list of HKN members still at Texas A&M, an actives list is kept and updated each semester. A committee of candidates calls the actives to ensure that the information is still accurate. The list is used to keep actives informed about Eta Kappa Nu events and future plans.

Publicity Committee

The publicity committee has been instrumental in insuring a good turnout at every Gamma Mu event. The publicity committee calls candidates and actives, puts up a banner, makes signs for classrooms, puts an ad in the school paper, and puts slides on the Video Information Center for every HKN function. All these methods of publicity combined to keep members very informed about chapter events. The 1992-1993 publicity committee had an incredible impact on attendance.

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Candidate Meetings

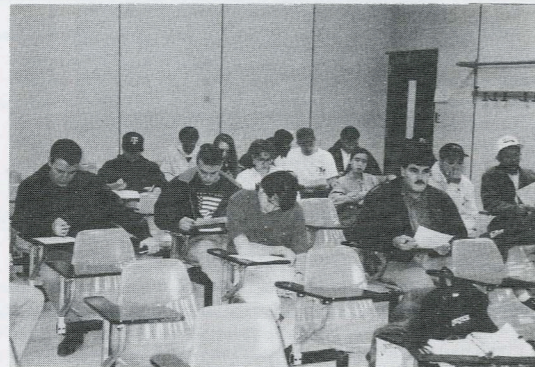
Candidate meetings were held approximately twice a month. The purpose of the meetings was to keep candidates informed about what was going on throughout the entire organization. Committee reports were announced so candidates would be aware of the progress of projects other than the ones they were working on. It gave them a "global" picture and promoted chapter unity.



Enjoying ice cream at a candidate meeting.



Candidate meeting in the Zachry lobby.



The Spring candidate quiz.

HONORS AND RECOGNITION

Fall 1992 Outstanding Candidate

Doron Chosnek was elected Outstanding Candidate for the Fall of 1992. He was cited for his hard work with the Publicity Committee. Doron was elected Historian for the Spring of 1993 and Vice-President for the 1993-1994 academic year.

Spring 1993 Outstanding Candidate

Scott Fornero was elected Outstanding Candidate for the Spring of 1993. He was recognized for his work on the Eta Kappa Nu picnic and his contributions to the Finance Committee and the Big Event.

Outstanding Active

The Outstanding Active Award was given to Teresa Hinojosa. Teresa put many hours of work into the Freshman Survival Guide and the Tutoring Committee. Teresa was also the Student Engineers Council representative for Gamma Mu. She was elected Treasurer for the 1993-1994 academic year.

Outstanding Electrical Engineering Professor

Dr. Jose Pineda de Gyvez was elected Outstanding Electrical Engineering Professor. He was cited for his emphasis on learning the material rather than having his students worry about grades. He was also cited for presenting real-world examples of material being covered in class. Elections were held in the Zachry lobby.

FUTURE PLANS

The Gamma Mu chapter has many exciting plans for future semesters. We are currently in the process of finishing the Video Information Center (VIC). We have secured cable access to bring in educational programming and up to date news and information; however, we still must establish a "maintenance" fund for the VIC, and obtain additional informational videos to show on the VIC's VCR.

Another project that we are currently finalizing is the *Freshman Survival Guide*. This is a guide for freshmen entering Texas A&M University, with a specific emphasis on engineering programs. This guide contains information on all topics that are beneficial to freshmen such as computer access, using the library, quiz files, study habits, time management, etc. We have received wonderful response from the freshmen who have received our guide. We hope to establish a maintenance fund to provide this service to future classes during their summer conferences.

A Student Advisement committee has been established to advise students on classes within the electrical engineering department. This advisement will allow students to get information about class contents and difficulty from a student who has already taken the class. This will alleviate some of the strain on the academic advisers and provide students with an alternative information source.

For our next major project, we are currently investigating the possibility of establishing an electrical engineering lab in a Victoria, Texas area high school. This lab will be located in a low income side of town and will provide an electronic lab to students who would otherwise not be exposed to such equipment. It will help stimulate interest in electrical engineering, foster young engineers to meet the challenges of the future, and allow current Eta Kappa Nu members the opportunity to experience teaching by training the high school's faculty on the lab's operation.

In addition, we are planning a park for the Zachry Engineering Center patio area. The design is being provided by the landscape architecture department and the construction will be contracted to the University Physical Plant. This park will provide a pleasant atmosphere for student lunches, meetings, or social gatherings.



Proposed site for the park project.

1992-1993 CANDIDATES

FALL

- | | |
|-----------------|-----------------------|
| Brian Austin | Humberto Ibara |
| Jim Bankson | Jeff Jeansonne |
| Kim Burks | Derrick Johnson |
| Sijian Chen | Mark Gavin Kokes |
| Doron Chosnek | Jeff Krantz |
| Darren Collins | Anthony Joseph Lell |
| Joseph Cucera | Randy Lee Pond |
| Jon DeShazo | Brian Rust |
| Dwayne Dohmann | Daniel Schaefer |
| Alex Dubler | Donna Strader |
| Richard Gaido | Kyle Stuckly |
| John Gammon | John Matthew Trippett |
| Bobby Goodwin | Kishna Wristers |
| Paul Graykowski | Brad Youngblood |

SPRING

- | | |
|------------------|-----------------|
| Barbara Abucejo | Kashif Haq |
| Imran Ahmed | Namhau Hung |
| Michael Alderson | Charlie Kasim |
| Daniel Alexander | Keith Kunz |
| Peter Byrd | Binh Le |
| Matthew Felder | William Lockett |
| Scott Fornero | Minh Mai |
| Chris Forthman | Alison McDaniel |
| Ronnie Ganske | Doug Starr |
| Kelli Garth | Kevin Trapp |
| Larry Goats | Tay Trinh |
| Wiedy Gunawan | Sherwin Wang |

1993-1994 GAMMA MU CHAPTER OFFICERS

- | | |
|-----------------------------------|------------------|
| PRESIDENT | Yale Vinson |
| VICE-PRESIDENT | Doron Chosnek |
| TREASURER | Teresa Hinojosa |
| RECORDING SECRETARY | Alison McDaniel |
| CORRESPONDING SECRETARY | Matt Felder |
| BRIDGE CORRESPONDENT/HISTORIAN | Keith Kunz |
| PUBLICITY CHAIRMAN | Chris Forthman |
| VIDEO INFORMATION CENTER CHAIRMAN | Erik Wilson |
| FACULTY ADVISOR | Mr. John Tyler |
| FACULTY ADVISOR | Dr. Karan Watson |

**Etta Kappa Nu Association
ANNUAL CHAPTER REPORT
— SUMMARY FORM —**

A completed copy of this form may be used as a basic annual report, or added to the chapter's own annual report. If the chapter's own report normally covers the material below, this form is not necessary.

Chapter Name GAMMA MU Institution TEXAS A&M UNIVERSITY
Address Rm 214 Zachry Engineering Center, College Station, Texas 77842

OFFICERS AND DATA

	FALL 19 92	SPRING 19 93	THIRD 19 ____
President	John Willis	John Willis	
Vice President	Darren Faulkner	Darren Faulkner	
Treasurer	Jeff Harvey	Jeff Harvey	
Recording Sec.	Sijian Chen	Sijian Chen	
Correspond. Sec.	John Gammon	John Gammon	
Bridge Corresp.	Yale Vinson	Doron Chosnek	
Faculty Advisor	Mr. John Tyler	Mr. John Tyler	
No. Members	40	60	
No. New Initiates	28	24	
No. Business meetings	20	18	

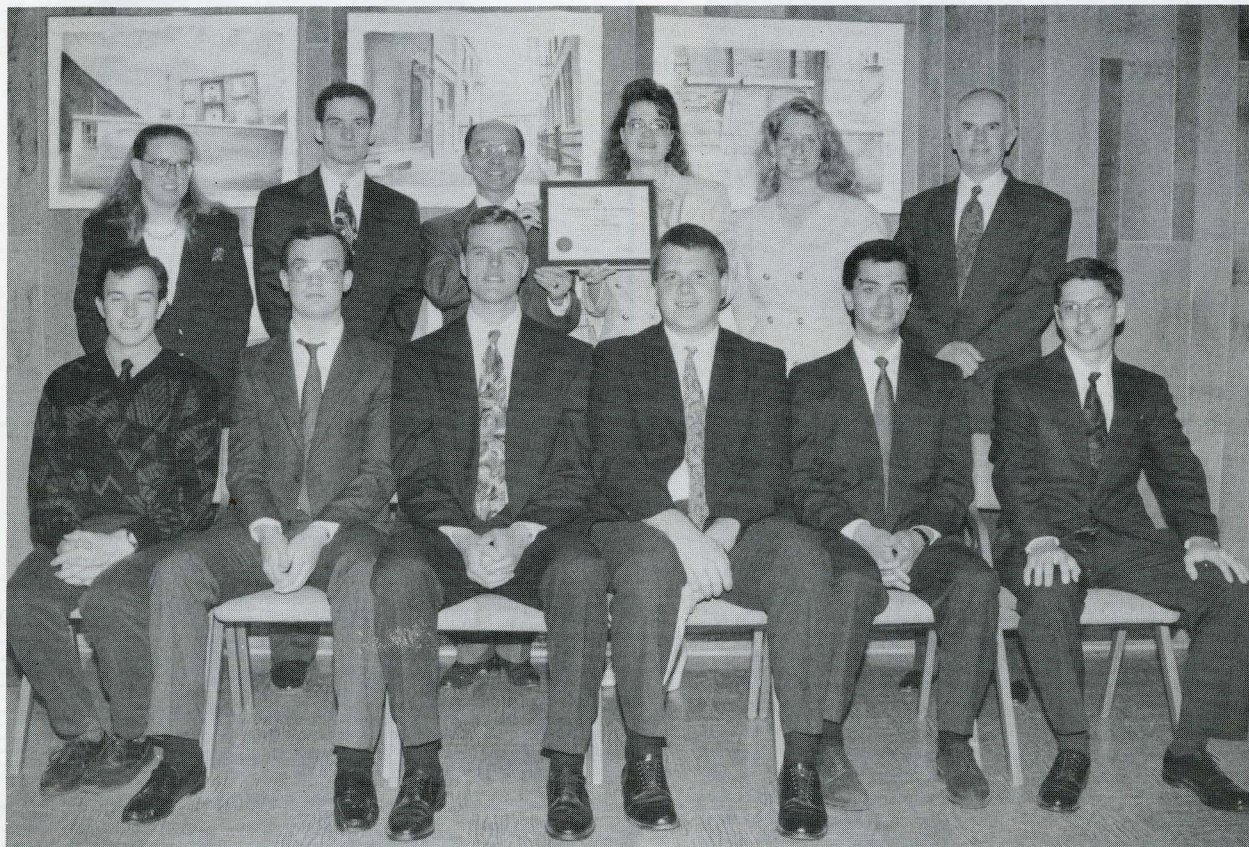
PROGRAM AND ACTIVITIES

ACTIVITY NAME	OLD, NEW OR CONTINUED	MAN - HOURS	SEMESTER FALL & OR SPRING	DESCRIPTION (Use additional sheets if necessary)
Picnic	Cont	90	Fall/Spring	Sec Report
Happy Hours	Cont	300	Fall/Spring	" "
Ball Tournament	New	20	Fall/Spring	" "
Induction	Cont	200	Fall/Spring	" "
Speaker Meetings	Cont	50	Fall/Spring	" "
Community Service	Cont	350	Fall/Spring	" "
VIC	Cont	300	Fall/Spring	" "
Lab Tours	Cont	150	Fall/Spring	" "
Tutoring	Cont	800	Fall/Spring	" "
ESG	Cont	500	Fall/Spring	" "
Car Wash	Cont	80	Fall/Spring	" "
Finance Committee	Cont	850	Fall/Spring	" "
T-Shirt	Cont	90	Fall/Spring	" "
Active List	Cont	100	Fall/Spring	" "
Publicity Committee	Cont	750	Fall/Spring	" "
Hours & Recognitions	Cont	50	Fall/Spring	" "
Park Project	New	300	Spring	" "

SIGNED John Willis DATE 10/6/93
Send to: OCAA Chairman or National Headquarters Doron Chosnek

IG 94 0 11/16/93
Ali Niknejad
747 Gayley Ave #407
Los Angeles CA 90024

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Nu Chapter, Iowa State University, receives National Certificate of Merit Award in the 1992-93 Chapter Activities Program. College of Engineering Dean, David Kao, presents Award to 1994 Chapter President Lori Stahle, back row center. They are flanked at left by Ann Grimm and Doug Beatty, and at right by Jennifer Skinner and Advisor, Dr. David Stephenson. Front Row, left to right, are Eric Lee, Gary Clayburg, Steven Schnier, Mike Bany, Raj Gandhi, and Scott Michael.

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