

BRIDGE of Eta Kappa Nu

SPECIAL ISSUE

SIX COLLEGE CHAPTERS WON AWARDS FOR OUTSTANDING ACTIVITIES IN 1994-95

by Alan Lefkow

All the award programs of Eta Kappa Nu have the common theme of holding service to others as important as scholarship or professional achievement. For college chapters, whose members have already demonstrated their scholarship accomplishments by their original eligibility for Eta Kappa Nu, services to their department, their school, and their community mark an outstanding chapter. For chapters whose program of activities shows outstanding service to others, the Outstanding Chapter Activities Award program provides the recognition to those chapters who have excelled in this area.

For the academic year 1994-95, six chapters of Eta Kappa Nu were judged to have programs of activities that stood above the rest. These chapters received one of three awards: the Certificate of Merit award for meritorious programs, the Honorable Mention award for outstanding programs, or the National Winner award for the most outstanding program. Gamma Mu chapter (Texas A&M University), Iota Gamma chapter (University of California-Los Angeles), and Nu chapter (Iowa State University) received Certificates of Merit for their excellent programs. Beta Epsilon chapter (University of Michigan) and Psi chapter (University of Texas at Austin) received Honorable Mention awards for their outstanding programs. Beta chapter (Purdue University) was voted the National Winner for the most outstanding program in 1994-95.

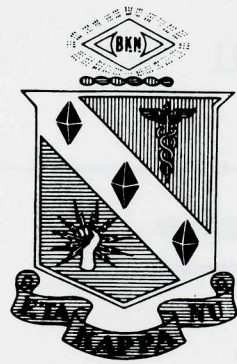
The award plaques have been presented to these fine chapters. Certificate winners each receive their certificate laminated in walnut with gold trim. Honorable Mention and the National Winner receive metal plaques engraved in color that are mounted on a field of red velvet framed in walnut.

All the awards are noteworthy symbols to mark the chapter's distinction as an outstanding chapter.

In the past, selected winning reports of such fine chapters have appeared in various issues of *Bridge* to serve as encouraging examples. For certain, their activities cover a wide range. Popular activities include helping the poor of their community, service to local high schools, support to many events at their own school, providing scholarships and awards to outstanding students, tutoring programs, Resume books for graduating seniors, providing food at their student lounge, services to alumni (newsletters, record keeping), evaluating courses and providing course guides, key supporters for Engineering Day, and promoting interaction between students and faculty. These are but a few of the activities the winning chapters performed for their school, department, or community.

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 are announced by spring.

Winning chapters submit reports of distinction that do justice to their programs of activities, as previous reports published in *Bridge* have shown. Desktop publishing and other professional methods on campus have contributed to reports that look as good as the chapters they portray. Such reports require hard work, as do outstanding programs of activity. Four (Beta Epsilon, Gamma Mu, Iota Gamma, and Nu) of the six winning reports are presented here as encouraging examples. *The May 1997 issue of Bridge will feature the reports of Winner, Beta, and Honorable Mention, Psi.*

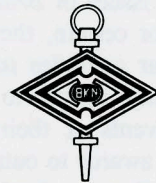


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J. Robert Betten

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Contributing Editors

Ralph J. Preiss
Alan Lefkow



The BRIDGE is published by Eta Kappa Nu Association, an electrical engineering honor society. Eta Kappa Nu was founded at the University of Illinois, Urbana, October 28, 1904, that those in the profession of electrical engineering, who, by their attainments in college or in practice, have manifested a deep interest and marked ability in their chosen life work, may be brought into closer union so as to foster a spirit of liberal culture in the engineering colleges and to mark in an outstanding manner those who, as students in electrical engineering, have conferred honor on their Alma Maters by distinguished scholarship activities, leadership and exemplary character and to help these students progress by association with alumni who have attained prominence.

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Contents

Awards

3 1996 Outstanding Young Electrical Engineers Award

7 Outstanding Chapter Activity Awards

In Memoriam

6 Russell J. Niederjohn

7 Lawrence H. Stubbe

13. Publication Title		14. Issue Date for Circulation Data Below	
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I certify that all information furnished on this form is true and complete. I understand that anyone who furnishes false or misleading information on this form or who omits material or information requested on the form may be subject to criminal sanctions (including fines and imprisonment) and/or civil sanctions (including multiple damages and civil penalties).			

1996 OUTSTANDING YOUNG ELECTRICAL ENGINEER AWARDS

by Ralph J. Preiss,
OYEE Awards Committee

The Eta Kappa Nu Outstanding Young Electrical Engineer Award is presented annually to young (under thirty-five) electrical and computer engineering graduates (within ten years from their BS degree) for meritorious service in the interest of their fellowman as well as for outstanding achievements in their chosen profession.

Those honored with this prestigious award are selected each year through a well-defined process which has remained virtually unchanged since its inception in 1936. The nomination process involves the initiative of the nominator and the participation of at least three references in support of the candidate. The dossiers of all nominees are carefully screened by the Awards Organization Committee, a standing committee of Eta Kappa Nu, which is responsible for soliciting and updating the nominations every year, and which then selects up to a dozen finalists for submission to the Jury of Award.

Professor Scott T. Acton, Associate Professor at Oklahoma State University, Stillwater was chosen by the Jury of Award as the Outstanding Young Electrical Engineer of 1996. Frank Lane, Hitachi America, Ltd., Advanced Television Systems Laboratory, Princeton, New Jersey, and Thomas F. LaPorta, Lucent Technologies, Bell Laboratories, Holmdel, New Jersey were named the Honorable Mentions.

In addition, three new finalists were picked by the Awards Organization Committee for possible further consideration in next year's judging. These three include Banu Rahime Ozden of Lucent Technologies, Bell Labs, Murray Hill, New Jersey; Kristofer S. J. Pister, University of California, Los Angeles at the time of nomination, and Berkeley currently; and David Norman Smargon, of Raytheon, Goleta, California.

The 1996 award recipients will be recognized at Eta Kappa Nu's sixty-first annual awards banquet on May 5, 1997 at the Princeton Marriott in Princeton, New Jersey.

This year's Jury of Award panel consisted of the following distinguished members:

* Robert A. Bartolini, Awards Chair, Vice President, David Sarnoff Research Center, Princeton, NJ

* Tom Garrity, General Manager, General Electric Power Systems, Engineering Department, Schenectady, NY

* David G. Daut, Graduate Program Director, Department of Electrical and Computer Engineering, Rutgers University, Piscataway, NJ

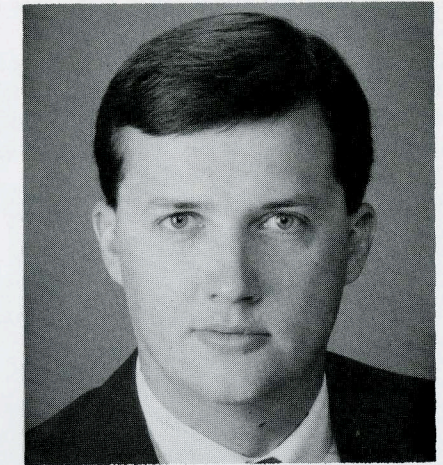
* Robert I. Egbert, President of Eta Kappa Nu Association, 1996-97; and Director of Center for Energy Studies, Wichita State University, Wichita, KS

* Daniel M. Litynski, Department of Electrical Engineering and Computer Science, U.S. Military Academy, West Point, NY

* Stephen A. Mallard, Professional Engineer, Nutley, NJ

* Ralph W. Wyndrum, Jr., Technology Vice President, AT&T Labs, Holmdel, NJ

Dr. Acton's citation reads, "By virtue of his outstanding contributions to the field of image processing, and his dedication to



Dr. Scott Thomas Acton

community and professional activities."

Scott Thomas Acton was born on January 22, 1966. He graduated from Oakton High School in Oakton, Virginia, and was the class valedictorian of 1984. He received the BS degree in Electrical Engineering from the Virginia Polytechnic Institute and State University in 1988. At Virginia Tech, he was a Virginia Scholar and Marshall Hahn Engineering Fellow. He received the MS degree (1990) and the Ph.D. degree (1993), both in Electrical Engineering, from the University of Texas at Austin.

While at UT-Austin, he was a Microelectronics and Computer Development Fellow and the recipient of the Motorola Partnerships in Research Grant. Scott's graduate research was performed in the Laboratory for Vision Systems under the direction of Dr. Alan Bovik. In 1994, he was a Center for Space Research postdoctoral fellow under the supervision of Dr. Melba Crawford. Dr. Acton has worked in industry for AT&T in Oakton, Virginia; for the Mitre Corporation in McLean, Virginia; and for Motorola, Inc. in Phoenix, Arizona.

Currently, Dr. Acton is an Assistant Professor in the School of Electrical & Computer Engineering at Oklahoma State University where he directs the Oklahoma Imaging Laboratory. The laboratory is sponsored by several organizations including the Army Research Office (ARO), NASA, National Science Foundation (NSF) and Lucent Technologies.

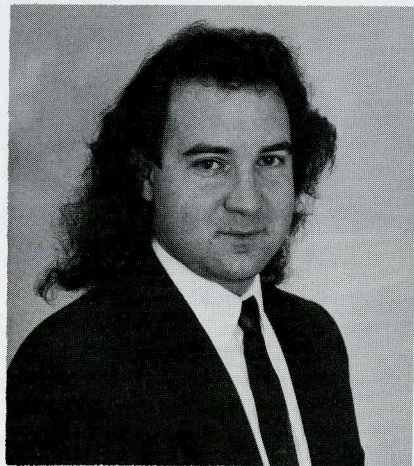
Dr. Acton teaches at both the undergraduate and graduate levels in the areas of digital signal processing, digital image processing, digital design, and computer vision. He is an active participant in the IEEE, SME, and Eta Kappa Nu where he has served as the faculty advisor for the Omega chapter. In 1996, Dr. Acton was the technical program co-chair of the IEEE Southwestern Symposium on Image Analysis and Interpretation.

Dr. Acton's research interests include multiresolution image representations, diffusion algorithms, image morphology, and image restoration. He is the inventor of generalized deterministic annealing, which is a neural network method that provides computationally inexpensive, high quality solutions to combinatorial optimization problems in image processing.

He also introduced the anisotropic diffusion pyramid, a non-linear approach to multiresolution image description and segmentation. His laboratory group is pursuing novel image segmentation and object identification methods for infrared imagery. Specific contributions include a new technique for infrared search and track (sponsored by the ARO) and a new approach to infrared circuit board inspection (sponsored by Lucent). Dr. Acton and the Oklahoma Imaging Laboratory are also investigating multiresolu-

tion image segmentation and classification techniques for remote sensing (sponsored by NASA).

He is an active supporter and volunteer for Young Life, Compassion International, Campus Crusade, and various international missions. He enjoys basketball, golf, playing guitar, hiking, traveling, reading, and church. He married Leslie Conkright on July 23, 1994. They live in Stillwater, Oklahoma.



Mr. Frank Lane

Frank Lane, an OYEE Finalist last year, was cited, "By virtue of his significant technical contributions to the field of digital communications and for his involvement in community activities."

Frank grew up in the town of Hoosick Falls, in northeastern New York, near the Vermont border. He graduated with honors from Hoosick Falls Central School in 1983.

Frank then attended Rensselaer Polytechnic Institute in Troy, New York, where he majored in Computer and Systems Engineering. In addition to his studies at RPI, he worked as a student consultant for the Center for Interactive Computer Graphics; captained an intramural hockey team; and worked as a graphics programmer for Infodex, a small firm making electroluminescent displays. He graduated cum laude in 1987 with a Bachelor of Science degree.

After RPI, Frank joined Raytheon Company's Missile Systems Division in Bedford, Massachusetts. He worked in the areas of radar system analysis, and advanced technology projects, as part of the Guidance System Department.

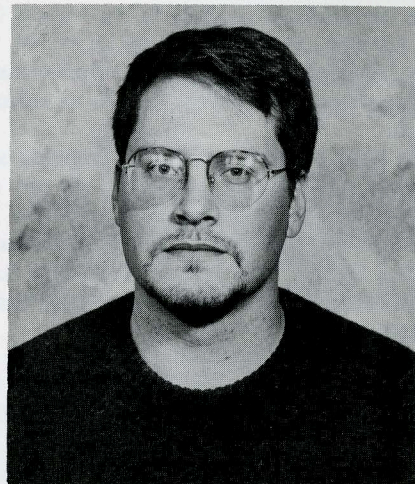
In 1988, Frank was selected to attend Princeton University through Raytheon's Miccioli Scholarship program. The Miccioli scholarship is a very competitive program which each year sends 20 to 30 people, company-wide, to pursue full-time graduate studies. With this support, Frank received a Master of Science in Electrical Engineering from Princeton University in 1988.

Frank left Raytheon to join Hitachi America's Advanced Television and Systems Laboratory (ASL) in 1992. The lab, located in Princeton, New Jersey, was formed to research and design High Definition Television (HDTV) in the U.S. The primary focus of Frank's work at ASL has been in the area of digital communication receivers. Here he has been a key contributor to a small team which has developed digital receivers for several different modulation formats, and a modulation agile HDTV receiver. In the past year they successfully completed a single chip QAM demodulator for the digital cable market.

Because ASL is a small laboratory with a large mission, there has been the opportunity to work on very diverse projects related to advanced TV. In 1993, Frank worked on a method of accom-

plishing fast visual scan in forward and reverse direction for a HDTV VCR. Because of the nature of the video compression used for HDTV, this function required the development of significant new techniques for organizing data, manipulating video data streams, and controlling the dynamics of the VCR playback. This work has been incorporated into international standards for recorders of compressed video bit streams.

Frank has also contributed to the Motion Picture Expert Group (MPEG) which developed international standards for the compression and transport of motion video sequences. The MPEG standard is the basis for most of the new consumer digital video products, such as direct broadcast satellite and digital video disk. In addition, he contributed to the Advanced Television Systems Committee (ATSC), which is a U.S. organization charged with certifying and documenting the broadcast HDTV standard proposed to the FCC. For his work at Hitachi, Frank has received four patents and has over twenty patents pending. He has also published several papers on Digital VCR fast scan and QAM demodulation. Frank currently lives in Medford Lakes, New Jersey. He is married with two children, and is active in the community as a Cub Scout den leader and as a member of the Medford Lakes Environmental Commission.



Dr. Thomas F. LaPorta

Thomas F. LaPorta, was cited, "By virtue of his outstanding technical contributions to the field of telecommunications and for his involvement in community and professional activities."

Thomas was born in New York City on April 30, 1964. He received his BSEE and MSEE degrees from The Cooper Union, New York, NY, in 1986 and 1987, respectively, and his Ph.D. degree in Electrical Engineering from Columbia University, New York, NY, in 1992. He joined AT&T Bell Laboratories in 1986 and is currently a Distinguished Member of Technical Staff in the Wireless Networking Research Department of Bell Laboratories, Lucent Technologies.

In the past five years, Dr. LaPorta has worked on various projects in broadband, wireless and mobile networking. His work has focused primarily on telecommunication networks. He has published papers in the areas of call processing, control architecture, and algorithm design and implementation, and signaling systems and protocols. He has also contributed in the field of transport and link layer protocols; is co-inventor on five patents; is co-author on ten technical journal papers and several technical magazine and conference papers. As an aside, he is co-author of three papers that have won best paper awards at technical conferences.

Dr. LaPorta is an adjunct member of faculty at Columbia University where he has taught courses on mobile networking and



1996 HKN Jury of Award

From Left, Daniel M. Litynski, David G. Daut, Ralph W. Wyndrum Jr., Robert I. Egbert, Robert A. Bartolini, Stephen A. Mallard, Tom Garrity

protocol design. He is Editor-in-Chief of IEEE Personal Communications Magazine, a technical editor on ACM/Baltzer Journal of Mobile Networking and Applications, was a member of the Executive Committee for ACM Mobicom '96 and IEEE Infocom '97, and has served on several program committees, including IEEE International Conference on Network Protocols and IEEE Infocom. At Bell Laboratories, he mentors Ph.D. students. At home, he is a member of his co-op board of directors, and participates in community patrols organized to respond to street crime.

The award winners are honored for their contributions to electrical, computer, and communications engineering, as well as to society at large. Selection of the OYEE, the honorable mention, and the finalists is based on individual accomplishments. It is not influenced by newsworthiness or the commercial value of a contribution. In the same way, contributions to local neighborhoods and schools, religious organizations and the arts are measured only in personal contributions, and not for newsworthiness or sensationalism. It is Eta Kappa Nu's emphasis on the well-rounded individual that leads it to recognize people who, in addition to striving for excellence in their profession, also give of themselves to the betterment of society, community, and family.

We hold that an education based upon the acquisition of technical knowledge and the development of analytical and logical thinking is a prerequisite to achievement in many lines of endeavor. This year's award recipients join a long list of individuals who have brought distinction to themselves, their community, and to our profession.

Award winners were brought to the attention of the Jury of Award after the top dozen were selected from a ranking provided by the Awards Organization Committee (AOC) as a whole. The Jury of Award is constituted once a year from highly respected leaders of the profession for the final selection of the winner

and honorable mention(s). Of course, we depend on the persons who had the foresight to nominate the outstanding young electrical engineers in their organizations. Without nominations, we would have no one to recognize. Nominations are solicited by the AOC in the spring of every year, and usually close around the first week in August. Nominations remain active as long as the nominees remain eligible and update their resumes at least every second year. At times, the AOC which solicits and maintains the nominations, may request additional information from the nominees, so it is important that nominees maintain contact with the AOC by sending them any changes of their addresses.

Members of the 1996 Award Organization Committee were:

- * Mark G. Adamiak, General Electric Co., Protection & Control, Malvern, PA
- * Amy Brotherton, On Leave, Columbus, OH
- * Robert Bartolini, David Sarnoff Research Center, Princeton, NJ
- * Donald Christiansen, IEEE (Retired), Huntington, NY
- * James D'Arcy, Martin Marietta, Astro Space Division, Princeton, NJ
- * Larry Dwon, Consultant (Retired), Columbus, OH
- * Irving Engelson, IEEE, Piscataway, NJ
- * Quayne Gennaro, Design by Hilton, Inc., Vienna, VA
- * Willard Groth, Consultant, Boca Raton, FL
- * Michael Hajny, Metering Engineering, Inc., Charleston, SC
- * James Hebson, Jr., PSE&G, Newark, NJ
- * Cecelia Jankowski, IEEE, Piscataway, NJ
- * John Henderson, Hitachi America, Princeton, NJ
- * Stephen Mauser, Power Technologies, Inc., Schenectady, NY
- * Ralph Preiss, IBM (Retired), Poughkeepsie, NY
- * Berthold Sheffield, RCA (Retired), Belle Mead, NJ

* Joseph Strano, New Jersey Institute of Technology, Holmdel, NJ

* Kurt Trampel, IBM Corporation, Purchase, NY

* Won-tien Tsang, Lucent Technologies, Bell Laboratories, Murray Hill, NJ

To review the nomination process: Nominations may be made by any member or group of members of Eta Kappa Nu; by leaders from industry; by any Section or Society of the Institute of Electrical and Electronics Engineers, Inc.; by the heads of electrical and computer engineering departments of any U.S. College or University; or by any other individuals or groups, who, in the opinion of the Awards Organization Committee, are properly qualified to make nominations.

Nomination forms for 1997 may be obtained from the Executive Secretary of Eta Kappa Nu, PO Box 2107, Rolla, MO 65402, and should be returned to him by August 1, 1997 for processing.

You may also care to view, periodically, the HKN home page on the world wide web which is periodically updated and which includes OYEE material. An eligible candidate for OYEE is one who:

* has an electrical engineering degree (B.S., M.S., or Ph.D.) from a recognized U.S. engineering school,

* will have been graduated not more than ten years as of May 1, 1997 from a specified baccalaureate program, and

* will not have reached his or her thirty-fifth birthday as of May 1, 1997.

Awards are based upon: (1) the candidate's achievements of note in his or her chosen work, including invention of devices, circuits, or processes; improvements in analyses; discovery of important facts or relationships; developments of new methods; exceptional results in teaching; outstanding industrial management; or direction of research and development; (2) the candidate's service to community, state, or nation, such as activity in philanthropic, religious, charitable, or social enterprises; leadership in youth organizations; or engagement in civic or political affairs; and (3) the candidate's cultural and esthetic development, such as work done in fine arts, architecture or the performing arts. Studies in history, economics, or politics are also highly valued, as well as any other noteworthy accomplishments, including leadership participation in professional societies and other organizations.

IN MEMORIAM

RUSSELL J. NIEDERJOHN

Dr. Russell J. Niederjohn, professor in the department of Electrical and Computer Engineering at Marquette University, died November 17 at age 52. He served as chair of the department from 1987 to 1994 and as co-director of the Signal Processing Research Center since 1990.

Dr. Niederjohn was born in Schenectady, New York. He received his bachelor's degree in 1967, his master's in 1968, and his doctorate in 1971, all in electrical engineering from the University of Massachusetts. He joined the Marquette faculty in 1971.

Early in his career, Dr. Niederjohn established several courses in the area of minicomputer and microcomputer hardware and software, at a time when many other universities were simply making plans to do so. In recent years, most of his courses were in digital signal processing and speech processing areas which he also developed at Marquette.

Dr. Niederjohn was an excellent teacher. In addition to several other teaching awards, he received the Eta Kappa Nu, C. Holmes MacDonald Award, as the

Outstanding Electrical Engineering Professor in the United States in 1978 and the Marquette University Faculty Award for Teaching Excellence in 1988. For over ten years he served as faculty advisor to the Marquette chapter of Eta Kappa Nu. He served as a member of the National Board of Directors of the society from 1993 to 1995.

He also carried an extraordinary amount of scholarly research, especially in the area of digital processing of speech signals. He directed the work of more than fifty master's and five doctoral students, published well over one hundred scholarly papers, and was principal or co-principal investigator on grants totaling more than two million dollars. In addition to various other recognitions for his research excellence, in 1996 he received the Marquette University College of Engineering Outstanding Researcher Award. In 1993, he was elected a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), for his "contributions to speech and signal processing."

In addition to Eta Kappa Nu, Dr. Niederjohn was a member of several honorary and professional

organizations. He was very heavily involved in professional society activities, particularly in the IEEE. Most recently, he served as president of the IEEE Industrial Electronics Society.

He is survived by his wife, Susan, and sons, Scott and Jeremy, as well as numerous other relatives and friends.

LAWRENCE H. STUBBE

Lawrence H. (Larry) Stubbe, 73, son of Henry and Ella Smith Stubbe died August 13, 1996 in Phoenix, Arizona.

He was born and grew up on a dairy farm near Central City, Nebraska. He served four years in the US Navy in the Pacific Theatre of Operation. He moved to Arizona from Iowa in 1955 and was a Project Engineer, retiring in 1986. He received his BSEE

from ASU, graduating with high distinction. He was a member of academic fraternities: Tau Beta Pi, Eta Kappa Nu, and Phi Kappa Phi.

He was a ham radio operator, photographer, private pilot, scuba diver, ballroom-dancer and had been a member of Phoenix Mountain Rescue.

He is survived by his wife, Flora (Flo) Davis Stubbe; three daughters [Susan Fish (Mrs. Tim Fish) of Rimrock, AZ; Virginia Stubbe (Mrs. Carey Foster) of Kingman, AZ; and Dr. Dorothy Stubbe (Mrs. John Thomas) of Hamden, CT]; and two stepchildren (Darlene Hagan and David Hagan of Mesa, AZ). Also surviving are ten grandchildren (J.B. and J.T. Fish; Shelby Stubbe; Grace and Caleb Thomas; Michelle, Jason, Zachary, Aaron and Justin Hagan), and one sister, Margie Fritz (Mrs. Lowell Fritz) of Casa Grande, AZ and Lincoln, NE.

OUTSTANDING CHAPTER ACTIVITY AWARDS

by Alan Lefkow

All the chapter programs of Eta Kappa Nu have the common theme of holding service to others as important as scholarship or professional achievement. For college chapters, whose members have already demonstrated their scholarship accomplishments by their original eligibility for Eta Kappa Nu, services to their department, their school, and their community mark an outstanding chapter. For chapters whose program of activities shows outstanding service to others, the Outstanding Chapter Activities Award program provides the recognition to those chapters who have excelled in this area.

For the academic year 1994-95, five chapters of Eta Kappa Nu were judged to have programs of activities that stood above the rest. These chapters received one of three awards: the Certificate of Merit award for meritorious programs, the Honorable Mention award for outstanding programs, or the National Winner award for the most outstanding program.

Gamma Mu chapter (Texas A&M University), Iota Gamma chapter (University of California at Los Angeles), and Nu chapter (Iowa State University) received Certificates of Merit for their excellent programs. Beta Epsilon chapter (University of Michigan) and Psi chapter (University of Texas at Austin) received Honorable Mention awards for their outstanding programs. Beta chapter (Purdue University) was voted National Winner for the most outstanding program in 1994-95.

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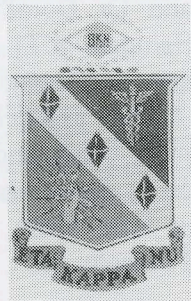
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ETA KAPPA NU

Beta Epsilon Chapter
The University of Michigan, Ann Arbor



1994 - 1995 Chapter Report

Beta Epsilon Chapter Report 1994 - 1995

We get a hearty meal!

You'll delight in the exquisite choices of our chef, the corresponding secretary, who treats us to fanciful pizzas, pastas, and Mexican enchiladas at our bi-weekly gatherings. (Can you say "30 minutes or less"?)

We have cool friends!

And our cool friends have more cool friends to introduce us to! In fact, without the generous contributions from our friends at Tellabs and our friends in the EECS Department, we'd never have been introduced to our fabulous new buddy, Bob, the PowerMac.

Our friends at Intel and Tellabs, who subscribe to the annual edition of our noteworthy Resume Book, have also been kind enough to introduce some of our HKN'ers to their friends who can offer us jobs! Our corporate contacts have also been known to spend an evening with us for some show-and-tell of the latest and greatest technologies.

We stay informed!

HKN'ers author and edit articles for "EECS Speaks," the atrium's hottest newsletter, featuring updates from all of the EECS societies/organizations, advice from counselors/professors, newsbriefs from our curriculum representatives, an occasional corporate column, and a witty letter from the editor.

Another hot item published by the HKN - Beta Epsilon staff is the annual Course-Evaluation Guide, where students can get the inside scoop on courses they may want to register for and the professors they may like to latch on to.

We give back to the department!

Join the recruitment team in phoning potential incoming freshman to the College of Engineering to share stories and answer questions. (Be honest, but please try not to scare anybody.)

Or if you're one of those people who needs to get more often, leave the lab for half an hour to explore the rest of the building while providing a tour to a group of high school seniors.

But if you just can't get away from your studies, take them with you, and spend an hour tutoring undergrads while you brush up on those handy formulas from Calculus 216.

We give back to the community!

Donate some of your blood to the needy, or if you've got a valid excuse, help us solicit blood from other unsuspecting passersby.

You say you're not into violence? Well, how about gak? Spend an afternoon teaching girl scouts about Nickelodeon's slime and it's chemical composition. Or head over to the African American Academy to play show-and-tell with other neato-torpedo science experiments. Volunteers are also appreciated by the Ann Arbor's Hands-On Museum.

You say you're not into experiments? Well then, how about garbage? Clean up the community environment by donating all of your neighborhood's cans, bottles, newspapers, and plastics to the Ann Arbor Recycling Center.

We get to know some really awesome people!

With the surprisingly large size of our electee class this winter, you won't soon run out of folks to meet. Friday happy hours are a happy place to be. For the more adventuresome, we offer Jeopardy-style happy hour down town at Touchdown Café during the national "Wings and Trivia" tournament. In the upcoming terms, we'll also begin planning joint social activities with the Wayne State University HKN chapter.

We also get to know some really awesome faculty!

(Well, okay, so maybe they're people too.)

Join over 400 students, professors, and staff at the ultimate "wine and cheese party." At the Student-Faculty Mixer, you can mingle with the renowned faculty of our esteemed university, while feasting upon trays and trays of crispy crackers and Sparkling White Grape Juice as the sweet melody of a harp echoes throughout the atrium.

If this setting is a little too chaotic for you and you're above "mingling," HKN can treat you to a personal lunch with the professor of your choice. Fancy invitations provided.

We keep you healthy!

All it takes is a shake for lunch followed by a sensible dinner. May we suggest a fine Snapple beverage or hot coffee with a fresh glazed Infinity™ from our bakery case? Or perhaps a new-and-improved turkey sandwich loaded with veggies? Next term, we will be able to offer a wide variety of sodas as well, to quench your cravings for caffeine.

Page 2

Beta Epsilon Chapter Report 1994 - 1995

Barrel down the side of an icy mountain at uncontrollable speeds approaching 3 mph!
Drive smack into your lab partner!
Fire a loaded plastic weapon at your TA!
Free fall off the top of a brick wall!
Relax as an entire pint of blood is drained from your arm!
And then escape in a new-age monorail system!

Sounds like a scene from "Die Hard IV, Nakatomi Strikes the EECS Building," doesn't it? You could be paying a whopping \$7.50 to go see Bruce Willis' stunt man up on the big screen! But why? Why waste your money watching someone else have all this fun, when you can experience it all yourself right here in your own backyard?!

No need to go on depriving yourself of life's simple pleasures, because YOU, yes YOU, can do all this and more as a member of HKN - Beta Epsilon!

We build a network of support and trust!

Spend an early Saturday morning in the Ropes/Challenge Course, where you'll fall into the hands of a great bunch of friends and members who are there to support you not only when you tip backwards off of a 10-foot wall, but more importantly as you work and play together throughout the entire school-year.

We study smart!

Pair up with a buddy or maybe even 10-20 buddies to fill out the 10 page "HKN Electee Exam" booklet, where you can learn about the history and the values of our organization, the quirky habits and embarrassing moments of the "officers" you once respected, and about the latest and greatest artifacts in the HKN office, including Major Munch and the Rose Tea Zoo.

We also study smart when it comes time for preparing for those frightening EECS exams, by providing you with access to a vast collection of past exams/solutions. This valuable assortment is not available anywhere else, so order now!

We involve you in amazing projects!

Work just like real engineers on a number of exciting projects sponsored by HKN. Join UM-Transit, and help a modern driverless personal rapid transit system become a reality here at Michigan! No longer will students have to wait forever for a bus late at night or in the freezing cold to take them between campuses.

Or join Crater Conquest, and design and build a small remote controlled vehicle which destroys its competition from other universities by shooting ping-pong balls.

We stay active!

Join us for a weekend of skiing at the beautifully renovated Mount Brighton. But, if tumbling headfirst into a snowbank while learning to do the "snowplow" is not your idea of fun, you're not alone and you're definitely not short on options.

Perhaps you'd prefer to skate around to the enchanting organ music at Yost Ice Arena. Or maybe you'd rather slide down the lane in your sleek twisting to the melodies of Rockin' Bowl with your fingers stuck in the tiny holes of a bowling ball. If that doesn't wear you out, we've also got intramural football, basketball, soccer, and volleyball teams for you to join. Currently, our world-class volleyball team holds the title and the trophy for winning the Inter-Engineering-Society Volleyball Championships.

We have a blast!

Whether you're driving a bumper car across a gym floor for a quick-paced match of Whirlyball, or stuffing a pile of hay into the sweatshirt of your helpless president during a Halloween hay-ride, you'll be having a ball. For those true die-hards, if you promise not to throw a grenade down the elevator shaft, you have permission to personally blast fellow HKN'ers during the month-long game of Assassin, once you register your plastic pistol with our Weapons Control Committee.

We keep you entertained!

Every other week, you'll sit in on yet another memorable guest presenter. Learn how to start your own business! Check out the insides of Intel's latest multi-chip modules! Find out more about exciting opportunities abroad and around the country through our Engineering co-op office!

Page 1

Beta Epsilon Chapter Report 1994 - 1995

We induct YOU into our organization!

Join us at the end of the term to welcome the new initiates and the incoming class of officers. Enjoy a smashing celebration at the Heidelberg with a fine evening of dining and dancing.

We keep in touch!

The benefits of joining us do not end after graduation by any means. The network of Beta-Epsilon HKN'ers around the country continues to grow. We still hear from our friends in California, Illinois, Oregon, Texas, North Carolina, Arizona, and more. And even if you never get out of Michigan in May, the Ann Arborites carry on with activities and happy hours throughout the summers.

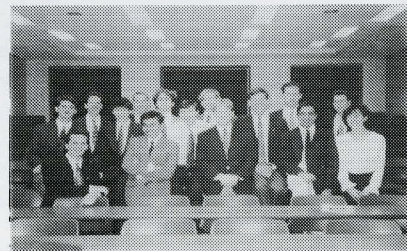
Yes! Experience HKN - BETA EPSILON!

Share in the thrills and excitement as you travel along the topsy-turvy roller-coaster ride of a fall and/or winter term in the oh-so-comfortable reclining chairs of EECS lecture room 1001. Pose as one of our 30+ electees or as one of 50+ actives during a 14 week adventure brought to you exclusively by a crew of highly trained future professionals known as the officers.

Lawrence Page
Fall '94 President
Cynthia Romer
Winter '95 President

1994 - 1995 Officers

President Lawrence Page Fall '94 President	Fall 1994 Lawrence Page Mickey Badalamenti Raj Shaw Jamie Phillips John Clark Brian Leno Jeff Freistler Christopher Pirich Dennis Sylvester	Winter 1995 Cynthia Romer Christopher David Keith Weintraub Dennis Sylvester Jamie Phillips Jeff Freistler Christopher Roth Leon Hong Anil Arora
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Fall 1994 and Winter 1995 Officers

Page 3

Beta Epsilon Chapter Report 1994 - 1995

Electees

At the beginning of the Fall and Winter terms, the top 1/4 of the junior class and the top 1/3 of the senior class in the Electrical Engineering and Computer Science department were invited to elect into the Beta Epsilon chapter of Eta Kappa Nu at the University of Michigan. Their job: to be active in Eta Kappa Nu, in the University of Michigan, in the community. This year, 62 electees completed this task. They were active in Eta Kappa Nu, attending many of the social events from TG's to bowling. They were active in the University of Michigan, involving themselves with projects from Crater Conquest to Tech Day. They were active in the community, working in community service projects from Outreach to the Hands On Museum. After their ten week election, the electees went through the induction ceremony and became newly active members of the Beta Epsilon chapter.

Fall 1994 Dave Amez Anil Arora Anthony Baladad Eric Beaubien Christopher David Doug Domke	Ben Guidinger Leon Hong Bruce Khalang Paul LaCourse Krista Lange John Locke	Paul MacFalda John Nasers Christopher Roth Stacey Seatch Manish Sharma Lam Shing Fai	Kin-Yip Sit Greg Thelen Jerry Tong Teck-Lee Tung Jeff Uller Keith Weintraub
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Winter 1995 Scott Bassin Scott Beechuk John Bemdeserfer Matt Bissiri Jason Brown Dan Cermak Rob Chappell Andy Chien Zach Dalton Dennis Fitzgerald	Brian Forney Nicole Fortin Nathan Goslee Matt Hanselman Benedict Hubbert John Korsakas John Lalik Anthony Lee Gordon Madson Gregory Maynard	John Montes, Jr. Nirman Ng Eric Palmer Rajeev Parekh Russell Robideau Ofer Ronen Steve Ross Andy Russo Raymond Shih Peter Shim	James Sparrow Jeff Sugamosto Michelle Vallabhanath Naresh Vyas Daniel Wandeler Anthony Wen Harry Zhu Itai Zohar
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HKN Banquet a Big Hit

Judging by turnout alone, HKN's Spring Banquet this year was a roaring success. On a whim, the powers that be decided to throw the bi-annual extravaganza at the long standing Ann Arbor fave, the Heidelberg. The German bar, rich in tradition and Old World style, was the perfect backdrop for the event that drew both the young and the old in the HKN family. The newly elected members and their dates were surrounded by the electees from years past, some with dates and others bearing spouses.

The members and their guests were also treated to an HKN exclusive, a video-montage commemorating the lives and times of the EECS family, on and beyond campus throughout the past year. Set to some foot-tapping tunes, the exposé framed the members not only at society activities and in the community, but it also caught a few guilty members in those rare moments of lounging, sleeping and the occasional studying. The video



One big happy family! (HKN Spring Banquet)

Page 4

Beta Epsilon Chapter Report 1994 - 1995

and labs. These meetings are a good time to visit with friends, make new friends, and learn about great job opportunities from guest speakers.

There is a wealth of information that is announced at the meetings. They keep us informed about the community around us and things we can do to help make it better. This is also the time that the HKN officers "reign supreme" (actually, they just do their job). They give announcements about events going on around school and events going on in our department.

So why should you come to an HKN meeting? HKN is the best society in the engineering department, not to mention the best group of people you could hope to meet!



Enjoying pizza at the first electees meeting

Resume Book Works for HKN'ers

The HKN resume book is distributed to interested companies in the fall of each year. The book contains all the resumes submitted by HKN members, providing the recruiters

with a valuable source for exceptional electrical and computer engineering majors. Students graduating within the next year or searching for a summer internship are encouraged to include their resumes in the book. HKN also receives resumes from people who have already graduated. Information about HKN and the community activities that they are involved in is sent with the books to keep the companies informed of what our chapter is doing.

Members Wish Old Advisor Best of Health

At the end of the Winter 1995, the Beta Epsilon chapter received word that former Eta Kappa Nu advisor Professor Alan MacNee was hit by a bus near central campus at the University of Michigan. He was then sent to St. Johns Hospital in Ann Arbor, where he is currently going through rehabilitation.

To wish Professor MacNee the best of health, HKN created a poster board sized get-well card and had members sign it. Officers Chris David and Anil Arora, drove out to St. Johns Hospital and delivered the card along with a copy of the End of the Year video and a basket of flowers.

We wish MacNee a speedy and complete recovery, and hope that he will never forget the tremendous contributions he has made to our organization.



Student-Faculty Relations

EECS Student-Faculty Mixer

The EECS Student-Faculty Mixer is a biannual event put on by the Eta Kappa Nu Beta Epsilon Chapter at the University of Michigan in conjunction with the local IEEE and ACM chapters. Every fall and winter semester, this event is held in the afternoon to give the students and faculty of the EECS (Electrical Engineering and Computer Science) department the chance to get to know one another outside of the classroom and laboratory. The event can easily be distinguished as the EECS Building atrium is converted from the norm to a virtual wine of course sparkling grape juice is used instead and cheese gathering suitable for a royal reception.

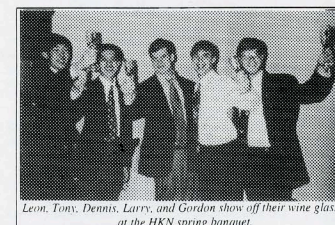
The Winter 1995 mixer was held on a sunny March afternoon, and featured a harpist from the School Of Music.



Students and faculty mix at the Student-Faculty Mixer.

Page 6

Beta Epsilon Chapter Report 1994 - 1995



Leon, Tony, Dennis, Larry, and Gordon show off their wine glasses at the HKN spring banquet.

was met by the crowd's laughter, tears, and joy. With an abundance of food of Bavarian fare and live entertainment, the event lasted long into the night, as those stalwart members of the society out-danced the band, well into the morning. Who said engineers can't dance?

The banquet also marked the passing of the torch, as the newly elected officers were introduced to their path of supplanting the aged, yet accomplished officers before them. Awards were also handed out to the most outstanding members of HKN over the past term, as well as HKN's annual scholarship given to the best exemplar of the society. Not to be forgotten, as each member and their guest left the banquet they received a wine glass engraved with the best memories of the unforgettable night.

HKN Awards

During each banquet, Eta Kappa Nu honors several of its members based on their academics and their activity in the Beta Epsilon chapter. One such award is the Eta Kappa Nu scholarship. The \$250 scholarship recipient is chosen by three EECS professors. Criteria is based on need, service to HKN and the community, and scholastic achievement. During the course of the term, the officers evaluate the activities and service of members and select four more distinguished individuals for the Most Active Electee, the Most Outstanding Electee, the Most Outstanding Electee, and the electee with the Highest Electee Exam Score. The award winners for the Fall 1994 and the Winter 1995 terms are listed below.

Scholarship Most Active Electee Most Outstanding Active Most Outstanding Electee Highest Electee Exam	Fall 1994 Krista Lange Jeff Freistler Keith Weintraub John Nasers	Winter 1995 Steve Ross Erich Brandt Joyce Wu Greg Maynard James Sparrow
--	--	---

HKN End of the Year Video

What better way to end the Winter 1995 semester than with a ten-minute video montage showing the highlights of the term. Each semester there is always someone taking pictures. This semester we decided to combine them with music and captions into a video, creating a new team project and a keepsake to remember all of the fun we had.

What started as an alternative to a slide show quickly developed into a fairly substantial project with a team of electees, actives, and officers all pitching in their time and artistic abilities.

It is amazing to think about the things we did to get from the original photographs to the final VHS product. Some pictures were actually retouched to remove red-eye, others were digitally enhanced to enhance edges and color separation. A few even had nice text bubbles added, most of them were resized or reformatted to fit our video. Every captured picture was carefully examined for quality, sizing, and content to determine what needed to be done, and where in the video it should go. The pictures were organized into different categories showing everything from the early history of our

chapter, including a scan of the original charter, to the fun activities and events that take place each term.

To top off the video we added music. The soundtrack for our video was edited totally digitally (except for the last section). Each section was carefully timed and the sound digitally mixed and processed to go exactly where we wanted. The audio cuts were done on the computer, and not by hand (except for the last section, when you are tired, you will do anything for sleep).

The final product, slightly over ten minutes of content, was shown at the banquet with amazing results. People watched as they saw pictures of themselves at one of the many activities. Within minutes of the end of the video, requests for copies were already coming in.

Meetings Keep HKN Alive

What can you expect from an HKN meeting? Chaos, destruction, and free food! Well, maybe not the first two, but there is definitely free food. That is, it's free until you pay your dues (so be sure to eat a lot). HKN meetings are a lot of fun. They are a good break at the end of a long day of classes

Page 5

Beta Epsilon Chapter Report 1994 - 1995

Professor of the Year Award

Each year, HKN presents an award to a Professor based on the votes of the EECS student community. The award represents outstanding teaching ability, dedication to the students, and general availability and approachability.

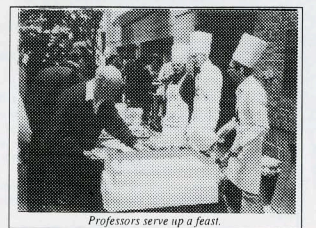
This year, HKN Beta Epsilon Chapter presented the award to Professor Farnam Jahanian. Professor Jahanian teaches courses in introductory and advanced operating systems theory. He is a former Vice-President of Upsilon Pi Epsilon and has been nominated for an award for excellence in teaching from the University of Michigan EECS Department.



Chris Roth presents the Professor of the Year Award to Professor Jahanian during St. George's Feast.

St. George's Feast

Each year the EECS staff and faculty puts on St. George's Feast in the EECS atrium. It is a great opportunity for the students to meet their professors and to do a little networking and socializing, also eating. It is a nice free meal in which the EECS staff informally serves the students. They provide a variety of breads, meats, cheeses, and other sandwich toppings among chips and drinks and other things on which to nibble. The Eta Kappa Nu students basically help keep things in order, keep the snack tables full of food, the drinks available and all of the other little odds and ends that need to be dealt with. All in all it is just a fun time in the EECS atrium, meeting professors with chef's hats on and just being informal and friendly, and the food's not bad either!



Professors serve up a feast.

HKN'ers Take Professors to Lunch

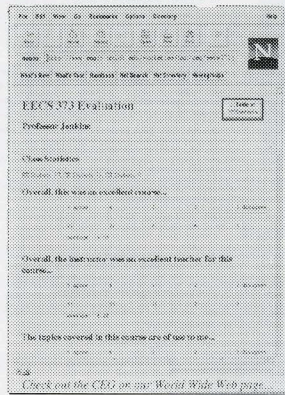
This year, the Beta Epsilon Chapter of HKN began a new social activity -- "Take a Professor to Lunch." HKN actives and electees were encouraged to take the professor of their choice out to lunch, and HKN would foot the professor's bill. The premise behind the activity was to increase the degree of student-faculty interaction by providing an open, casual environment for discourse.

"It rocked!", said James Sparrow, a Winter 1995 electee, after taking Professor Jahanian, his Operating Systems professor, to lunch. "It was great to get to just chat with a professor and tap into their wealth of experience."

Anil Arora, HKN Newsletter Chair, said, "It was wonderful to learn more about the personal side of Professor Winful. He told us about his boxing debut in college and about his interests in musical instruments -- the things you never associate with a professor."

Page 7

HKN Goes WWW



Over the past year, the HKN Beta Epsilon home page has really been improved by the Bridge Correspondents who have maintained it.

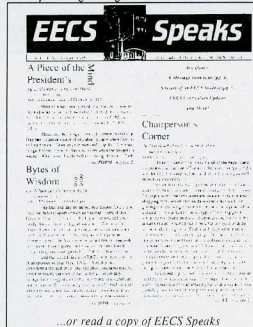
Course Evaluation Guide

Every term, prior to student registration, HKN publishes a handy guide to assist students in their selections.

For each course, some of the information provided includes ratings on lecture style, assignment and exam coverage, textbook use, professor availability, course load, laboratory time, topic coherence, and quotes/comments from students.

EECS Speaks

Eta Kappa Nu kept its commitment to inform students and faculty of the happenings of the EECS building through the seventh year of the EECS Speaks newsletter.



The production of the EECS Speaks was definitely a learning process. The chairs learned about how to produce a newsletter and what types of articles the student/faculty audience responds to.

The future of EECS Speaks is looking bright. With added support from ACM and IEEE, we will be able to expand the newsletter to include more pictures and feature articles from professors, and increase distribution.

HKN Has Say in EECS Curriculum

As HKN's student representative to the Computer Science and Engineering Curriculum Committee during the 1994-95 school year, Ted Belding attended the committee meetings along with the faculty representatives and the graduate and computer science student representatives.

Several major decisions were made during the year. It was decided that Systems Programming should be removed from the curriculum because it was felt that there was no longer a need for a course covering assembly language programming on the 680x0 Macintosh computer.

originally been intended as a prerequisite to Operating Systems and to Compilers. This requirement added one term to the "critical path" leading to graduation.

Another major decision was to introduce a new introductory course for both computer engineers and electrical engineers. Up until now, computer engineers have been taking Pascal, as an introductory course, and electrical engineers have been required to take Fortran.

Donut Stand

HKN rung in the 1994-1995 school year by continuing to provide engineering students at the University of Michigan with 100% of their U.S. Recommended Daily Allowances of sugar and caffeine.

The donut stand is a many-faceted resource for HKN. The donut stand provides HKN with the bulk of its income, selling such nutritional necessities as donuts, candy, coffee, juice, and sandwiches.

Money Matters

A number of years ago the HKN'ers of the University of Michigan opened for business peddling donuts and coffee out of a converted janitor's closet to desperate students and staff in need of that early morning boost to jump start their day.

Activities

Assassination Game

Bang! Bang! Gun shots in the EECS Building. It can only mean one thing: the assassination game. The sounds of HKN students running through the halls, chasing each other with plastic guns.

The rules of this game are simple. Everyone gets a slip of paper with the name of the person that they must kill without knowing who has to kill them.

- 1. No assassinations during or for one hour after Eta Kappa Nu meetings.
2. No assassinations in the donut stand.
3. No assassinations during class.

Fall 1994's winner was Jamie Birk with 7 kills. Winter 1995's winner was Anil Arora with 8 kills. Both were awarded with \$15 gift certificates to Tower Records.

The Haunted Hayride

On a cold October night, just after one of Eta Kappa Nu's famous TGIF parties, 35 people from Eta Kappa Nu and Tau Beta Pi went on a hay ride. We took a trip to Ward's Orchards, a place that is regionally known for its hay rides and is just a few miles northeast of Ann Arbor.

HKN Goes to the Moon

One interesting new project that University of Michigan HKN'ers participated in this year was the 1995 W.J. Jerry Sanders Creative Design Competition. Created by the University of Illinois and sponsored by AMD, the competition challenges engineering students to build a small mobile robot based upon the theme of the competition.

"Crater Conquest" helped our members gain in experience in practical, hands-on engineering, as well as developing skills such as teamwork and leadership.

The competition was held at the University of Illinois in March, and while we did take various places (fourth, sixth, etc.) winning was far from the goals of this project.

"Crater Conquest" helped our members gain in experience in practical, hands-on engineering, as well as developing skills such as teamwork and leadership.

Several robots collide in the Crater Conquest.

When we were all chilled out, the fun didn't end. A bunch of us headed over to Chris David's house to warm up with some drinks. Isn't it great when an officer lives right near the ski slopes?

Ski Trip to Mt. Brighton

Ann Arbor is known for many things, most least of which is the inherent unpredictability of the weather. One thing is for sure: in the winter there is snow, and where there is snow there is skiing.

Going up the mountain, we looked down, yelling to our friends as they flew under us. Every five or ten minutes, the ski lift would stop as beginners got stuck trying to get on the chairs (well, okay, we were some of those people), causing everything to come to a halt until the employees could hit the big black button to restart the large green contraption.

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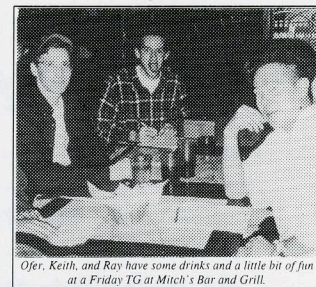
TG's Relieve HKN'ers

Monday: Class, group meeting, officer meeting, work on problem set. Tuesday: Read four chapters, organize outreach trip, class. Wednesday: Class, homework, take car to service station. Thursday: Programming assignment due, class, group meeting, pick up car from service station. Friday: THANK GOD!

This happens to be a light schedule for most Eta Kappa Nu members here at the University of Michigan. With all the classes, meetings, projects, a lot of us lose sight of one of the other major parts of college life: having a good time.

That's why, two or three times a term, we all take a time-out from our busy schedules and meet at a local pub to relax. The TG's (as in TGIF) have been staples in the Beta Epsilon chapter events schedules for quite some time, and 1994-95 was no exception.

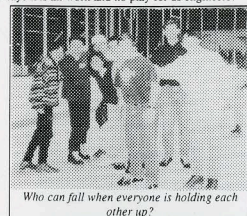
TG's at the University of Michigan traditionally enjoy the largest turnout of active Eta Kappa Nu members, and they are a great way for the electees to meet active and officers in a more relaxed setting than a classroom or electee meeting.



Ojer, Keith, and Ray have some drinks and a little bit of fun at a Friday TG at Mitch's Bar and Grill.

Sports

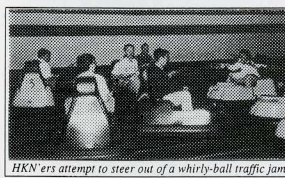
Who says it is all work and no play for us engineers?



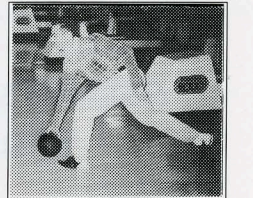
Who can fall when everyone is holding each other up?



The HKN basketball team prepares its defense.



HKN'ers attempt to steer out of a whirly-ball traffic jam.



Jamie Phillips bowls for a strike!

Service

Outreach

The Beta Epsilon chapter remained very involved in community activities this year by continuing the Outreach program to get grade school students excited about science and engineering.

Our first Outreach activity for Fall term was with Owen Elementary in Pontiac, Michigan. HKN members helped out with their air pressure, "bubble-ology," and gliders sessions and even played "Heads Up, Seven Up" with the kids.

During Winter term, our Outreach program began doing activities with Ann Arbor's African American Academy. The African American Academy is a Saturday program that holds enrichment sessions for elementary and middle school students and tutoring for high school students.

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Service

who had questions about almost every aspect of life at U of M. I remember speaking with one person for nearly a half hour; she was very enthusiastic about coming to Michigan and I even related some of my personal experiences that I had had.

The High School Phone-a-Thon was and is an excellent program for students to participate in. It not only assists the University and College of Engineering in recruiting efforts, but more importantly, it helps the high school seniors we call make one of the more important decisions in their lives.

Remember senior year of high school when you were trying to decide where you wanted to go to college? Barring the advice of relatives and friends, the decision was most likely up to you. Wouldn't it have helped to talk to someone at those schools to get more information than could be gleaned from some glossy brochure?

That's where the High School Phone-a-Thon comes in. Throughout most of Winter Term 1995, several members of Eta Kappa Nu, along with other engineering societies and organizations, spent their Wednesday nights calling up high school seniors who had been accepted to the U of M College of Engineering.

It is your generosity that enables us to do what we do. This House is a representation of your kindness and concern and the hospitality of this community. We hope you will continue to consider our house a priority among the people and organizations that you help.

With best wishes, Phillip Bowen, President

Ann Arbor Hands-On Museum Many HKN electees volunteer at the Ann Arbor Hands-On Museum (HOM). The exhibits at the HOM are a little different from the exhibits of traditional museums.

The visiting students had a jam-packed, fun-filled day. Hopefully, they all went away with some insight into what electrical and computer engineering is all about.

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A Letter from Professor Winful

Seven years ago, two students walked into my office and asked me if I would be the faculty advisor for the Michigan Beta Epsilon chapter of Eta Kappa Nu. I was, of course, flattered and honored. At the same time, I wasn't sure I was up to the challenge.

At the risk of getting all of us a little too swelled up with pride, I would like to review some of the gains we have made during the past seven years. Some objective measures of our success can be seen on the walls of our chapter's office in room 1221 EECS.

Working at the Ann Arbor Hands-On Museum provides an opportunity for HKN to give something back to the community, while having a good time in the process.

Engineering: A New Frontier - Tech Day 1994 Tech Day is an annual engineering fair presented by U of M engineering students and faculty. It reaches out to high school and community college students from Michigan and neighboring states and provides them with an opportunity to observe first-hand the facilities and programs offered at the U of M College of Engineering.

Some of the highlights of the day included: Trying on the bunny-suits worn in the Solid-State Electronics Lab! A juggling robot from the Artificial Intelligence Lab! A huge chunk of the ENIAC, brimming with vacuum tubes!

While awards are fine, the best indication of the spirit and vitality of our chapter is the visible impact we have had on the department, the college, the university, and the larger community. We have become an organization known for service.

This is a wonderful organization with a glorious past. I know that you will continue the tradition of excellence that HKN is well known for. I congratulate all of you for the zeal and devotion you have brought to Eta Kappa Nu.

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Credits

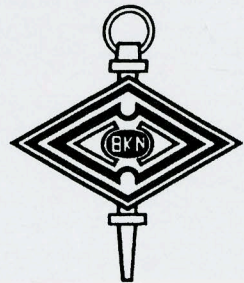
Editor

Anil Arora

Writers and Contributors

Scott Bassin, Eric Brandt, Dennis Fitzgerald, Leann Fu, Jeanette Leonard, John Nasers, Jamie Phillips, Cynthia Romer, James Sparrow, Dennis Sylvester, Jeff Utler, Keith Weintraub, Herbert Winful

Tod Belding, Christopher David, Nicole Fortin, Eric Glover, John Monty, Jr., Lawrence Page, Mitchell Rohde, Christopher Roth, Jeff Sugamosto, Anthony Tank, Michelle Vallabhanth, Anthony Wen, Joyce Wu



ETA KAPPA

NU

ANNUAL REPORT



GAMMU MU CHAPTER 1994-1995

TABLE OF CONTENTS

LETTER FROM THE PRESIDENT	1
1994-95 GAMMA MU CHAPTER OFFICERS	2
MAJOR PROJECTS	3
HKN WORLD WIDE WEB HOME PAGE AND LISTSERV ACCOUNT	3
FRESHMAN SURVIVAL GUIDE	3
RESUME BOOK	3
TUTORING	4
HIGH SCHOOL LAB STATION	4
COMMUNITY SERVICE	5
THE BIG EVENT	5
CHAPTER ACTIVITIES	7
STUDENT FEEDBACK TO THE ELECTRICAL ENGINEERING DEPARTMENT HEAD	7
INTRODUCTORY PIZZA SOCIALS	7
SPEAKER MEETINGS	7
KYLE FIELD PRESS BOX MEETING	8
CANDIDATE MEETINGS	8
CANDIDATE PRESENTATIONS	9
INDUCTION CEREMONY AND BANQUET	10
AWARDS BANQUET	10
AWARDS RECIPIENTS	10
1995-96 GAMMA MU CHAPTER OFFICERS	13
1994-95 NEW MEMBERS	14

Major Projects

HKN World Wide Web Home Page and Listserv Account

The Gamma Mu chapter went on-line this semester with a World Wide Web home page and a listserv account. The home page address is "http://eesun1.tamu.edu/~hkn/". Currently the home page has a list of HKN's goals and projects, the requirements to join, a list of officers, and a picture of the members. We intend to eventually use the home page and listserv to stay in contact with old members and to promote HKN projects.

Freshman Survival Guide

HKN continues to support the Freshman Survival Guide (originally written by HKN members). The survival guide is given to incoming Electrical Engineering freshmen during summer orientation. The guide has hints on surviving and succeeding in Engineering as well as helpful snippets of information for their transition to campus life. We rewrote the survival guide this semester to make corrections, updates, and a few additions.

Resume Book

This year HKN produced its most professional resume book yet. Each candidate and active member of the organization turned in a resume, and we divided them into three sections: students graduating within a year, students looking for co-op jobs, and students graduating more than a year from now. The resume book was bound and sent to local Electrical Engineering companies along with information about current HKN projects.

3

Letter from the President

Howdy, my name is Matt Felder and I've had the privilege of being the President of the Gamma Mu Chapter of Eta Kappa Nu for the past academic year. This position was one of the most challenging, rewarding, and occasionally nerve-wrecking responsibilities I have ever undertaken. I must admit that I was originally reluctant to accept the position for lack of confidence. Looking back, I realize now that I made one of the best decisions of my life-- right behind attending A&M. Whoop! I can not encourage students enough to seek out leadership positions especially if they don't feel comfortable about their abilities. Nothing will breed confidence like succeeding in a leadership position.

I had two primary goals that I hoped to achieve with HKN this year. I wanted to make a few changes in the chapter to promote the professional aspects of the organization, and I wanted to improve the finance committee to hopefully attract new company interest in supporting HKN projects. Both of these goals were fulfilled with the projects described in his report. I owe many thanks to the other officers who I was able to rely upon immensely. Also, the candidates were very motivated and willing to commit time to HKN, especially considering their busy schedules... we all know that the EE curriculum doesn't give students a great deal of free time.

I wish the new President, Ponch Gonzales, and the other new officers the best of luck. I hope HKN continues to attract the same caliber of candidates.

Sincerely,

Matthew Felder
President, 1994-1995

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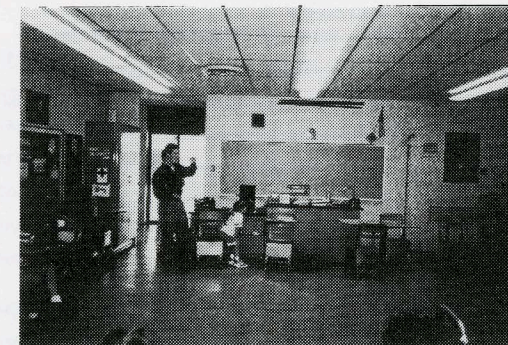
1994-95 GAMMA MU CHAPTER OFFICERS

PRESIDENT	Mat Felder
VICE-PRESIDENT	Royce Zatopek
TREASURER	Chris Forthman
RECORDING SECRETARY	Stephen Graham
CORRESPONDING SECRETARY	Daniel Long
BRIDGE CORRESPONDENT/HISTORIAN	Steven Spriggs Paul Dugan
SOCIAL CHAIR	Ponch Gonzales



1994-95 Gamma Mu Chapter Officers

2



Mat Felder Speaking at Stroman High School on the Use of the Oscilloscope

Community Service

The Big Event

The Big Event is the largest community service project in the country. Every Spring Texas A&M student organizations get together and spend a Saturday improving the local community. This semester HKN was glad to participate in the Big Event by doing yard work for two ladies in the community. We did mowing, weeding, raking, and trimming.

5

The industry response was grateful, and we hope to be able to build HKN project funding sources through these companies.

Tutoring

Engineering has always been characterized by a low rate of retention partially due to students who are unprepared for the curriculum and need special academic guidance. The tutoring center was established to help retain engineers by providing academic guidance that they may not find elsewhere. This year HKN members completed approximately 400 hours of volunteer tutoring for underclassmen engineering courses. HKN provides more tutors for the Student Engineers Council tutoring center than any other society on campus. HKN members find tutoring to be a great way to brush up on old material and to help out struggling students.

High School Lab Station

A follow up visit to Stroman high school in Victoria, TX was made in the spring semester. Stroman high school was the recipient of the electrical engineering lab station presented by the HKN Gamma Mu chapter in 1993-94. The purpose of this visit was to update some of the equipment being used in the lab station. In addition, the laboratory experiments were revised and a new lab manual was presented. A presentation on the use of the new equipment and on electrical engineering was given to science classes at Stroman high school.

4



Big Event: HKN Members Humping it after a Long Day's Work



Big Event: HKN Members Giving the Traditional Aggie Gig'em Sign

6

Chapter Activities

Student Feedback to the Electrical Engineering Department Head

Each year HKN compiles a list of suggestions for Dr. Patton, the Dean of Electrical Engineering. This year HKN members suggested changes in the curriculum, student advising, and computer lab structure and operation.

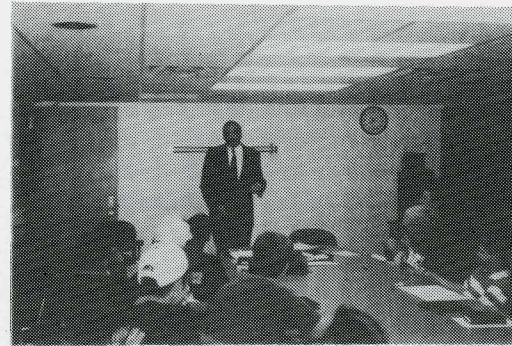
Introductory Pizza Socials

The Gamma Mu chapter begins each semester by informing potential candidates of HKN's requirements, goals, and achievements at a pizza social. In the Spring, the officers attempted to promote more professional aspects of the organization by giving a formal presentation (overhead slides and all). We explained each project and described what the candidates should expect from HKN. Networking skills were the major focus of our discussion with the new candidates.

Speaker Meetings

Mike Reed, a manager at IBM in Austin, spoke to HKN during the fall 1994 semester about resume writing skills. Mike discussed what companies like IBM are looking for when they review a resume. He discussed resume formats and ways to promote particular skills and achievements.

During the spring 1995 semester Roy Collins III spoke to HKN members about intellectual property law and the patent process for engineers. Mr. Collins is a patent lawyer with the Texas A&M University system.



Roy Collins III Speaking to HKN about Patent Law and Intellectual Property

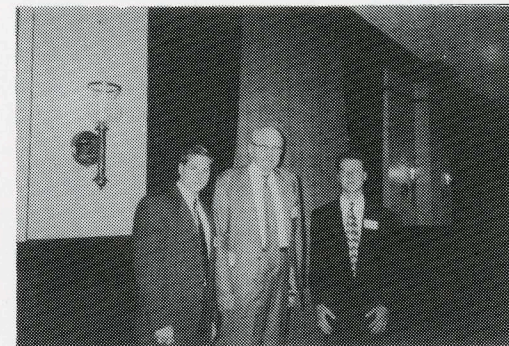
Kyle Field Press Box Meeting

During the Spring semester one of the regular candidate meetings was held in the Kyle Field press box (Kyle Field is the A&M football stadium). The press box meeting was a relaxing change from regular meetings in the engineering building. The candidates enjoyed the change of setting and the chance to see the A&M campus at night from the top of Kyle Field.

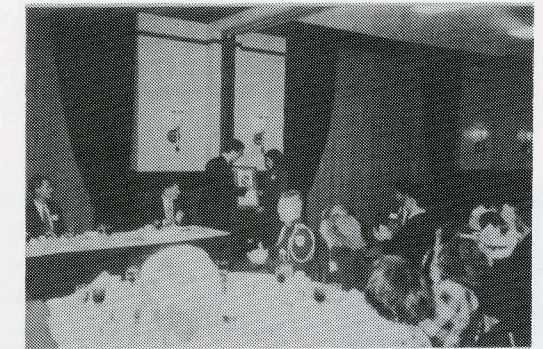
Candidate Meetings

We attempted to give HKN meetings a more relaxed, yet more professional feel by holding them in a conference room instead of a class room. Members were more comfortable and less reluctant not to attend the meetings.

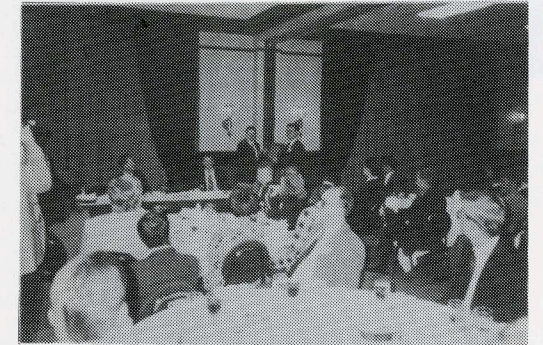
- Outstanding Teaching Assistants- Alex Dubler
Yale Vinson
Mark Yeary
- Outstanding Senior EE Student- Matt Felder
- Outstanding HKN Candidate- Elizabeth Ramirez



Mat Felder and Steven Spriggs with Dr. Jack Kilby- Inventor of the IC



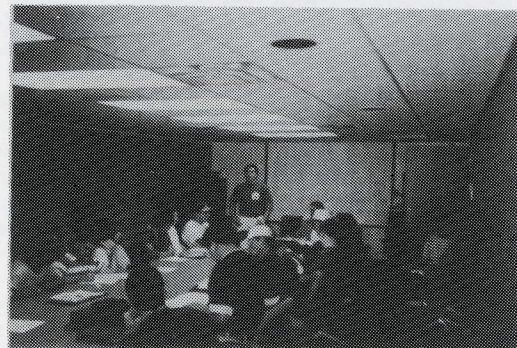
Elizabeth Ramirez Accepting the Candidate of the Year Award



Mat Felder Receiving Outstanding Chapter Award from Nationals

Candidate Presentations

During past semesters each candidate was interviewed by the officers. This allowed the officers and candidates to be introduced and find similar interests. In the Spring the officers decided to try something new by having candidates give presentations to all of the HKN members. Candidates were asked to give a short speech to introduce themselves and talk on a topic of interest to other Electrical Engineering students. Topics included co-op jobs, research opportunities, new EE products and technology, and GRE and EIT preparation advice.



Candidate Presentations: Octavio Gonzalez Talking about Co-oping at TI

Induction Ceremony and Banquet

The HKN induction ceremonies were held in the Memorial Student center and many parents and friends of the candidates attended. Some of the guests were HKN alumni themselves and enjoyed discussing their experiences in HKN and the changes in the engineering curriculum. In the Spring the Gamma Mu chapter broke the long standing tradition of holding the banquet at Tom's Bar-be-que and moved to the Old Country Buffet. We had larger dining tables, a meeting room, and a better variety of food.

Awards Banquet

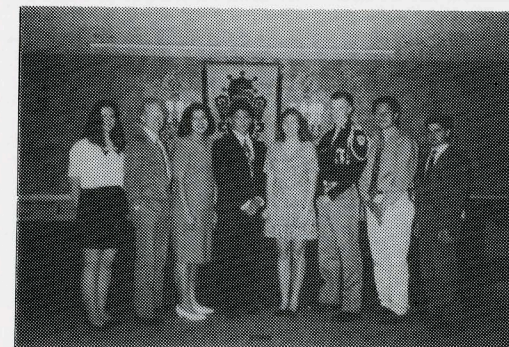
HKN and IEEE organized the 2nd annual Electrical Engineering Student / Faculty Awards Banquet. This year the banquet was far more extensive than last year. We were honored to have Dr. Jack Kilby, the inventor of the Integrated Circuit, speak at the ceremony. Dr. Kilby talked about the development and the future of the integrated circuit. He discussed the approaching technological shift from minimizing feature size toward improving interconnects. The Electrical Engineering advisory board also attended the awards ceremony. The advisory board included representatives from Loral and Texas Instruments. Awards were given based on ballots turned in by Electrical Engineering students.

Awards Recipients

- Outstanding Professors- Mr. John Tyler
Dr. Parker
- Outstanding Lecturer- Joydeep Mitra

1995-96 GAMMA MU CHAPTER OFFICERS

- PRESIDENT Ponch Gonzalez
- VICE-PRESIDENT Marcy Hodapp
- TREASURER Stephen Graham
- RECORDING SECRETARY David Stoller
- CORRESPONDING SECRETARY Liz Ramirez
- BRIDGE CORRESPONDENT/HISTORIAN Octavio Gonzalez
- SOCIAL CHAIRS Carrie Kovarik
D. Jarret Guill
- ACADEMIC RELATIONS William R. Petty
- WWW RELATIONS Gao Tu



1995-96 Gamma Mu Chapter Officers

1994-95 NEW MEMBERS

- | | |
|-----------------------|-------------------------|
| Mark Anthony Banse | Chuck Boecking |
| Ross Vincent Ciomperk | Kenneth Chinchilla |
| Gregory Thomas Clark | Gulam Dashtri |
| Kenneth Allen Delling | William Preston Galle |
| Jeffrey Michael Giard | Dorothy Frances Golden |
| Octavio A. Gonzalez | Dennis Jarret Guill Jr. |
| Mathew Lynn Hammond | Allison Winitred Hicks |
| Brett Hinson | Marcy Hodapp |
| Suhail Jalil | Edwin Koh |
| Carrie Kovarik | Andrew Moch |
| Chad D. Nguyen | Patsy Lynn Noah |
| Hazem Numan Nounou | Samuel Palermo |
| William R. Petty | Gregory Pratt |
| Elizabeth Ramirez | David S. Scott |
| Marj Bradley Taylor | Gao Tu |
| Robert Tung | Duane Jeffrey Young |

Eta Kappa Nu

Annual Report

Nu Chapter

Iowa State University

1995



TABLE OF CONTENTS

Letter from the President	1
Officers and Chapter Data	3
Chapter Activities	4
Bucket O' Parts Competition	4
General Meetings	6
VEISHEA Events	8
Test File	8
Other Activities	9
Community Service	10
Science in the Grade Schools	10
YMCA Concession Stand and Other Service Projects	10
Social Activities	11
Faculty/Student Picnic	11
Friday After Classes (FAC's)	12
Volleyball	12
Initiation Ceremonies	12
Honors and Recognition	14

Nu Chapter Officers and Chapter Data

Spring 1995

President	Chris Steenhoek
Vice President	Niki Nilsen
Recording Secretary	Marcia Jones
Corresponding Secretary	Tara Gray
Bridge Correspondent	Doug Spanning
Treasurer	Ryan Mattison
Activities Officer	Allie Lovett
Officer-at-Large	Becky Agnew
Communications Officer	Scott Buesing
E-Council Representative	John Philbrook
VEISHEA Chairman	Jennifer Skinner
Faculty Advisor	Dr. David Stephenson
Number of Members	167
Number of Initiates	21
Number of Business Meetings	12
Number of General Meetings	2

Fall 1995

President	Chris Steenhoek
Vice President	Niki Nilsen
Recording Secretary	Marcia Jones
Corresponding Secretary	Tara Gray
Bridge Correspondent	Doug Spanning
Treasurer	Ryan Mattison
Activities Officer	Rich Larson
Officer-at-Large	Jason Onstot
Communications Officer	Scott Buesing
E-Council Representative	Dan Weiche
Faculty Advisor	Dr. David Stephenson
Number of Members	164
Number of Initiates	26
Number of Business Meetings	8
Number of General Meetings	3

CHAPTER ACTIVITIES

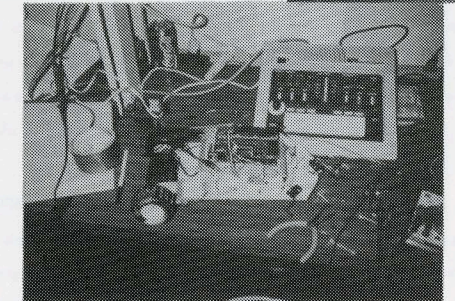
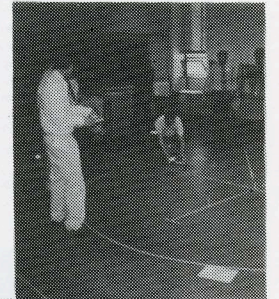
Bucket O' Parts Competition

The Nu chapter participated in the Bucket O' Parts competition held February 17th - 19th, 1995 at Western Michigan University in Kalamazoo, MI. Two teams were sent by Iowa State

University -- each was sponsored by HKN, IEEE and

E-council. Each team took a micro-controller and processor board to the contest. On Saturday the 18th, the teams were told what to build and what had to be accomplished. The object was to build an autonomous vehicle capable of completing 10 tasks, given a bucket full of parts. Some of the tasks included:

going forward exactly 20 feet, maneuvering through a slalom course, and going through a simple maze.



The winning vehicle required 110 HOURS of hand work.

Eta Kappa Nu

Electrical and Computer Engineering Honor Society

Nu Chapter

Iowa State University

A Letter from the President

As a new member of the Nu Chapter of Eta Kappa Nu, I saw an organization with a great deal of potential. However, as my involvement in the organization increased, I saw that even though the Nu Chapter was very active, there were certain improvements that could be made.

Two areas I targeted for improvement in the past year were very much related to each other. First, I felt that our activities should be expanded to give active members greater opportunity to participate. Too many of Nu Chapter's activities were centered entirely around initiating new members and around the pledge projects associated with this process. Second, I felt that Nu Chapter's lack of exposure to the general membership, and our tight alliance to IEEE in joint activities had eliminated much of our own self-identity.

To facilitate improvements in these areas, we organized monthly general meetings with interesting and informative speakers followed by some social time over pizzas and pop. These meetings -- both joint and solo -- have met with huge success and we are expanding our schedule to include more special interest and technical presentations also.

To further improve our service and visibility, the Nu Chapter helped sponsor two ISU student teams to go to an intercollegiate competition called Bucket O' Parts. We now proudly display the first place trophies outside our office. We are also creating HKN T-shirts for our members and reviving a traditional HKN volleyball tournament against the other engineering and campus clubs.

Also, in addition to the community service pledge projects we normally undertake, the Nu Chapter is laying the groundwork for continuing community service projects. One of these is called "Science in the Grade Schools" and is designed to peak children's interest in science and engineering through cooperation between the college and the grade schools.

Eta Kappa Nu

Electrical and Computer Engineering Honor Society

Nu Chapter

Iowa State University

Naturally, the addition of these new activities on top of Nu Chapter's existing activities has led to new and challenging problems, particularly in the area of fundraising. New sources of revenue to support these activities are being explored. Interestingly enough, these problems have led us to ideas that would benefit not only our organization, but our fellow students as well. One such idea that we are considering, is the possibility of obtaining a photocopy machine for student use. This would provide a valuable service to students since there is no public copier in the our building, and would enhance the usefulness of our test files and browsing library while providing a continuous source of revenue for Nu Chapter.

The accomplishments of this chapter have made myself and all of our members proud. We have greatly increased our activities, services, and involvement and we have attained greater visibility in our college and community. And in doing so, we have gained a better sense of self-identity and pride for our organization.

I feel that we have done a great deal to capture the potential that I saw in Eta Kappa Nu when I was initiated. There are still untapped resources and opportunities to be explored by those that follow in our footsteps, but I believe that the officers of the 1995 Nu Chapter of Eta Kappa Nu have left new paths that lead in the directions of greater activity and service to our associates, our institution, and our community.

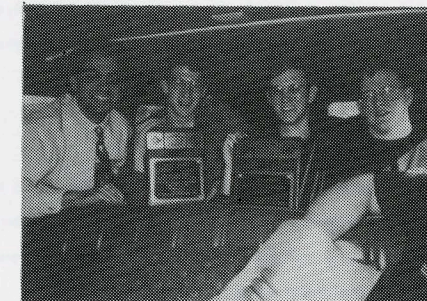
Chris Steenhoek
President - 1995

After hours of assembly and programming, the vehicles were finished. On Sunday morning, the judging took place. Team #1 from Iowa State won the contest with 162 points. This team also won the best overall design award. We blew away the competition -- the nearest competitor scored only 89 points. Everyone involved in the Bucket O' Parts had a great time, and we hope that Nu chapter will continue to participate in this competition.

The following people made up the two teams from Iowa State:

Equipment Manager: Becky Agnew

Team #1:	Earnie Beern	Team #2:	Darren Cummings
	Raj Gandhi		Dan MacArthur
	Brian George		John Philbrook
	Tom Pesek		Chris Steenhoek



Team #1 from Iowa State proudly displays their awards.

General Meetings

In addition to weekly cabinet meetings, Nu chapter holds several general meetings per year. All initiates are invited to the general meetings, and all students are welcome to attend. General meetings allow students to relax and listen to speakers, including faculty and industrial representatives. Pizza is served at every meeting, creating a comfortable environment in which students can relax. Nu chapter has held three general meetings since February this year, with two more meetings planned before January.



EE and CPE students really enjoy pizza!

On February 21st, 1995, Nu chapter held a general meeting jointly with Iowa State University's IEEE chapter. Mike Studer from Texas Instruments spoke on Total Quality Management, and he accepted resumes from students.

Nu chapter held its second general meeting on March 21st, 1995. A representative from Biomedical Engineering spoke on the need for Electrical and Computer Engineers in Biomedical Engineering. Instruments for detecting pregnancy in animals, and for measuring blood flow rates were demonstrated for everyone.

On September 26th, 1995, 56 students gathered to hear Dr. Julie Dickerson's presentation on fuzzy systems. Models for fish behavior and heavy traffic problems were introduced. Everyone was very interested in learning about fuzzy logic. The free pizza was a special bonus!



Welcome to the Pizza Buffet!

7

Other Activities

A resume book has been updated for use in Iowa State University's Engineering Placement Office. Industrial representatives are encouraged to look at every HKN member's resume, provided they have submitted resumes to an officer. This gives Nu chapter's members an edge for getting positions as interns, co-ops or full time employees.

Until recently, Nu chapter's members did not have their membership recognized on their transcripts. As of this fall, every member will have their membership in HKN noted on their official transcripts.

9

Two more general meetings are scheduled for this year. A representative from Engineering Animation, Inc. will show animation videos, emphasizing applications of computer animation. Later, Texas Instruments will return to Nu chapter and give another technical presentation.

VEISHEA Events

VEISHEA is an annual, three day university-wide celebration. Nu chapter participates in this every year by giving demonstrations or setting up displays. In April, 1995, Nu chapter combined efforts with a chemistry club, SCUM. Together, a "Magic Show" was put on, where electrical and computer engineering projects were shown to the community, particularly to young people. Some of the items demonstrated were: the Bucket O' Parts vehicle, maze solving robots, superconductors, the ISU solar car, a sound and light display using analog filters, a Vislab demo, a speech synthesis project, other senior projects and CYBOT. The magic show was a wonderful way to get our community's children and adults excited about Iowa State University.

Test File

Nu chapter's test file was established in 1991, and it continues to be a valuable resource for students. Initiates and members may provide copies of old exams, usually in electrical and computer engineering coursework. Initiates must provide at least two old tests as an initiation requirement.

8

COMMUNITY SERVICE

Nu chapter is consistently involved in the Ames Community. Many community service projects are done as pledge projects during initiation week. However, Nu chapter is extending its participation in the community by organizing continuing projects.

Science in the Grade Schools

This community service project began as a pledge project during fall semester, 1994. Ellen Stacey, an undergraduate initiate, began this project, and has encouraged its growth. This is a service project which provides demonstrations in science and engineering to grade school children in the Ames community. Nu chapter is in the process of informing faculty members in science and engineering of this great opportunity. Elementary school children will be brought to the Iowa State University campus, where faculty will give spectacular demonstrations of science that children will enjoy. Peaking children's interests in science and engineering will greatly benefit the respective professions.

YMCA Concession Stand and Other Service Projects

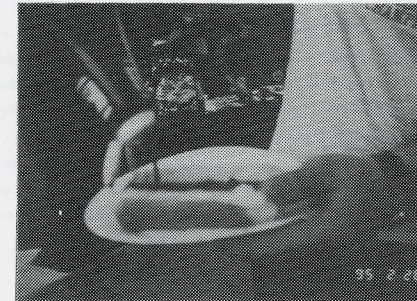
Nu chapter's major pledge project for this fall is the YMCA concession stand. Pledges will operate the concession stand at home football games on October 21st and October 28th. In addition, Nu chapter is interested in sponsoring an Adopt-A-Highway clean up project near Ames. Hopefully, Nu chapter will soon participate in this continuing effort.

10

SOCIAL ACTIVITIES

Faculty/Student Picnic

Every semester, Nu chapter and Iowa State's IEEE branch provide a faculty/student picnic for all electrical and computer engineers. This is an excellent opportunity for faculty and students to talk outside of the classroom. Large numbers of students attend the picnic, encouraging Nu chapter to continue sponsoring this terrific event. It is a very fun and relaxing time for both students and faculty.



Hmm... You can't beat free hot dogs and sub sandwiches.

11

initiates are also informed of the requirements of induction into Eta Kappa Nu. The "smoker" meeting allows chapter officers and candidates to get acquainted with each other. It is a very enjoyable and informative meeting for everyone.

13

Friday After Classes (FAC's)

FAC's are most likely Nu chapter's favorite social events. On several Fridays every semester, Nu chapter reserves a local pizza parlor and invites its members to enjoy free pizza and pop. The most important FAC is always the initiation week pizza party. On Friday of initiation week, Nu chapter members and new initiates get together to wind down after a long week. FAC's are a great opportunity for members to get acquainted with the new initiates. The FAC also serves as a welcome for initiates into our chapter. Nu chapter occasionally has more than one FAC during a semester. This is usually done several weeks after initiation, allowing members to relax and enjoy themselves before finals week. FAC's are an effective means for informing members of upcoming activities including general meetings, community service projects, job opportunities, technical presentations and campus activities.

Volleyball

Periodically, Nu chapter assembles a volleyball tournament, where our members and others can compete in the gym or in the sand. There is a tentative plan to hold a tournament after courts become available in November. Weather and court availability tend to cause delays so that we are only able to play once per year.

Initiation Ceremonies

Nu chapter's first contact with initiate candidates is at a "smoker" meeting. This is an informal gathering of officers and candidates, where we introduce Eta Kappa Nu with some history of its origins and purpose. Our chapter's activities and the benefits of joining are discussed. The

12

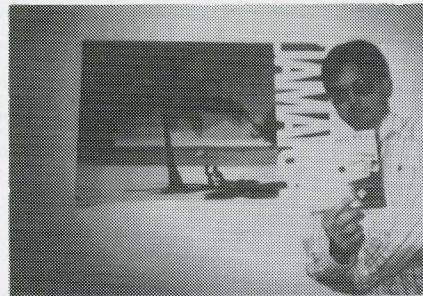
HONORS AND RECOGNITION

Nu chapter recognizes the achievements of its faculty and students. Throughout 1995, Nu chapter has honored several faculty members and students. Nu chapter nominated Dr. Degang Chen for the C. Holmes MacDonald Outstanding Teaching Award in January. Also, Nu chapter's Bridge Correspondent, Doug Spanning, was nominated for the Alton B. Zerby and Carl T. Koerner Outstanding Electrical Engineering Student Award.

Nu chapter honors faculty members by initiating one or more professors as professional members each semester. In Spring 1995, Dr. Doug Jacobson became a professional member of Nu Chapter. For the initiate class of Fall 1995, Dr. Sachin Sapattekar has been selected as the professional initiate.

Nu chapter will remain involved in many campus activities, as well as community service projects. We intend to continue strengthening our chapter, so that it will benefit our department, university and profession.

The 1994-1995 Annual Report



The treasurer investigates methods of creative financing to balance the budget.

Iota Gamma Chapter Eta Kappa Nu University of California, Los Angeles

TABLE OF CONTENTS

Sections	Starting Page
Eta Kappa Nu Officers	3
Eta Kappa Nu Candidates	4
Industrial Relations	
Corporate Recruiting Event	6
Technical Information Sessions	7
Hughes Tour	8
Academic Services	
Independent Research Survey	9
EE Student Survey	9
Open Forum	10
EE Research Symposium	10
Freshman Electronics Workshops	11
SPICE Workshop	11
Lab Nights	11
Freshman Welcome Day	12
Social Events	
Pizza Night with Professors	12
Broomball	12
Engineer's Week	13
Basketball with CSULB	14
Candidate Welcome Barbeque	14
Barbeque with the Dean	15
Spring Initiation Banquet	15
Financial Report	16
Future Plans	17

PRESIDENT'S ADDRESS

The Iota Gamma Chapter has seen rapid growth in the past few years, and the 1994-1995 academic year was no exception. We strove to continue Eta Kappa Nu's commitment of service to the electrical engineering community with hard work and dedication from an excellent group of officers and members. It was our pleasure to serve and be a part of a group that we believe is an integral part of the Electrical Engineering Department here at UCLA.

Iota Gamma serves a significant role in bringing the electrical engineering students closer to the faculty. Pizza night with professors allows students to get better acquainted with their professors in a more social setting. The Research Symposium serves as a way for students to get familiar with current research topics in the department. The Independent Research Survey has been compiled to help undergraduates link up with professors to start research. Our chapter also serves as a vital link between the students and the industry. Iota Gamma sponsors events as corporate recruiting and industry tours in an attempt to better prepare students to meet the expectations of engineering companies.

Last year, our chapter sponsored numerous events which were aimed to help students academically and provided opportunities to become involved in the field of electrical engineering. We sponsored a Spice workshop to provide extra help for students who needed it, and held Open Lab Nights to provide extra hours for students to complete their assignments. We initiated a series of workshops aimed at introducing electronics to incoming Freshmen. Our members also constructed a bicycle generator which was our main contribution to the Newtonian Carnival during Engineer's Week.

When the dust settled at the end of the year, we found ourselves with twice the number of officers and committee chairmen that we had begun with. Behind us were numerous events and activities that enable us to continue to grow. It was an exciting and challenging year. Without any further delay, we would like to present to you a summary of our activities for the 1994-1995 school year.

Sincerely,

Kristyn Cuc Do

Kristyn Cuc Do
Iota Gamma President
Summer-Fall Term

Robert W. Kim

Robert W. Kim
Iota Gamma President
Winter-Spring Term

ETA KAPPA NU OFFICERS

	SUMMER-FALL 1994	WINTER-SPRING 1995
President	Kristyn Do	Robert Kim
Vice President	Chris Jones	Chuck Reese
Bridge Correspondent	Robert Kim	Bryan Ma
Recording Secretary	Chuck Reese	Charles King
Corresponding Secretary	John Maddux	Fredrick Newberg
Treasurer	Christopher Deng	Rod Speece
Corporate Relations Chair	Amy Weisbin	Christopher Deng
Social Event Chairs	Mark Ross	Michael Dong
	Michael Dong	



HKN Officers Summer-Fall 94: (L to R) R. Kim, M. Dong, C. Reese, J. Maddux, K. Do, C. Deng, M. Ross



HKN Officers Winter-Spring 95: (L to R) C. King, R. Speece, R. Kim, C. Deng, C. Reese, F. Newberg, M. Dong

ETA KAPPA NU CANDIDATES

Fall 1994

Dan Benyamin	Keang Kho	Fredric Newberg
Dan Caplan	Charles King	Darby Riley
Bill Chan	Sach Lam	Yimei Sheng
Lap-Shing Chan	Rick C. Lao	Kevin W. Sterling
Keith Chung	Giang Le	Han Tran
Sopheap Heng	Erik Louie	Chon Un
Baldwin Hsu	Bryan Ma	Russell Watanabe
David D. Hwang	Shailen S. Mistry	Oren Zarin
Prof. Bahram Jalali		

Spring 1995

Eric Chairunas	Fletcher Riggs	Sven Vahsen
Robert Cooke	Nancy Shen	Alice Ngai Ming Yip
Michael Jackson	John Stafstudd	

4

INDUSTRIAL RELATIONS

The Corporate Support Program, which was initiated last year, continued to be highly successful this year. The purpose of the Corporate Support Program is to supplement the limited funds of the Iota Gamma Chapter at UCLA and to strengthen ties between UCLA students and industry representatives. The program offers two levels of sponsorship: the Associate Package calls for a sponsorship of \$250 in exchange for free advertising, a UCLA EE resume book, and a mention of the company name on all of our fliers; the Executive Package costs \$500 and includes everything in the Associate program as well as a recruiting event on campus. Some of our past company sponsors were IBM, Intel, Tandem, National Semiconductor, Advanced Micro Devices, and AT&T Bell Labs.

This year, we also initiated other corporate relations efforts. We requested equipment donations for our Freshman Electronics Workshop Program and received generous offers from companies such as Intel. We also arranged technical information sessions with Texas Instruments and Intel, respectively. In addition to the two recruiting events we had with Intel and Tandem, we sponsored a tour of the Hughes El Segundo facility. Although these efforts did not garner income, they served to assist our workshops Program and to expose our undergraduate students to current "hot issues" in industry.

The Corporate Support program and other corporate relations projects continue to be beneficial to both UCLA undergraduate students who use HKN services and to industry representatives who seek quality engineers.

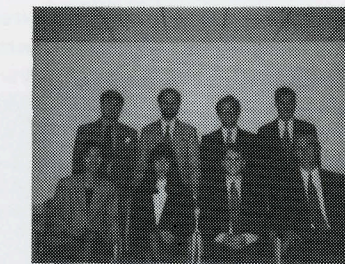
Corporate Recruiting Events

As part of our services to companies who are UCLA HKN's Executive sponsors, the Corporate Recruiting Event is an information session for companies who are seeking new hires through our assistance. We provide fliers, classroom announcements, e-mail, and web information as advertising for a company which wishes to have a successful recruiting session. We assist our sponsors by making room and equipment reservations, providing seating and refreshments, and much more. In the 1994-1995

6



HKN Initiates for Fall 1994: (L to R) Top Row - D. Riley, H. Tran, E. Louie, L. Chan, K. Chung, K. Sterling, C. King, Y. Sheng, Middle Row - S. Lam, B. Hsu, D. Hwang, F. Newberg, S. Mistry, D. Caplan, B. Ma, S. Heng, K. Kho, Bottom Row - G. Le, C. Un, R. Lao, Prof. B. Jalali, R. Watanabe, B. Chan, D. Benyamin

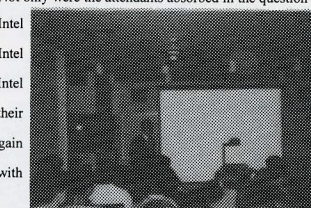


HKN Initiates for Spring 1995: (L to R) Top Row - J. Stafstudd, M. Jackson, E. Chairunas, F. Riggs, Bottom Row - N. Shen, A. Yip, R. Cooke, S. Vahsen

5

academic year, we helped companies such as Intel and Tandem to set up their recruiting sessions.

Intel's event was held in Fall of 1994 with a tremendous turnout. The event was presented at the UCLA Athletic Center with refreshments and an LCD overhead display. Intel representatives discussed company hiring trends, salary and growth. Not only were the attendants absorbed in the question and answer discussion, but they were also given Intel Pentium key chains and many received even Intel 486 Overdrives! During March of 1995, Intel made another recruiting presentation due to their immense corporate growth. Of course, we again announced Intel's event in classrooms and with fliers.



Students gathered at the Intel recruiting session.

In addition to Intel's event, Tandem also came to UCLA in January, 1995 in an attempt to increase their applicant pool. We showed our appreciation of Tandem's sponsorship by announcing Tandem's coming with the company's custom fliers and posters, classroom announcements, and advertising in the UCLA School of Engineering's publication—the Bruin Engineer Lite.

These recruiting events are undoubtedly important to corporations. UCLA Eta Kappa Nu will continue to assist engineering companies by enhancing their applicant pools with well organized information sessions.

Technical Information Sessions

Iota Gamma Chapter also brings in guest speakers during technical information sessions. In the fall quarter of 1994, a representative from Texas Instruments came to UCLA for a talk on two subjects they did much research on: semiconductors and Digital Signal Processing. Tom Becker, the college relations manager from Texas Instruments, first played an interesting video that covered the step-by-step processes involved in turning sand into high quality silicon chips. He then gave a captivating talk on DSP

7

using UCLA's football records to illustrate important electrical engineering concepts. The event closed with Mr. Becker announcing the Texas Instruments \$100,000 DSP contest which made our members very excited to join.

In the spring quarter of 1995, our chapter invited Mike Allen, a design engineer from the PCI Components Division of the Intel Folsom site, to speak at our first general meeting. Before the meeting, we gave Mr. Allen a brief tour around the UCLA campus and gave him some information on the Electrical Engineering Department. During the meeting, he gave a talk on issues associated with designing high performance I/O circuits for personal computers. We were engaged in a highly-interactive question-and-answer session that was both beneficial and informative to our members and candidates. We look forward to more guest speakers from Intel in the future.

Hughes Tour

In the ongoing search for employment in the life of an undergrad, a clan of job-hungry students hit the road for a tour of the Hughes El Segundo facility during the spring quarter of 1995. Their search was the beginning of a series of industry tours that would be sponsored by HKN to give jobless students a taste of life in "the real world." After getting lost and then receiving directions from another division within the vast expanse of the company, the job-seekers arrived at their final destination: the Hughes Space and Communications Group. The job-seekers received an informative talk on the history of satellite communications and recent developments, and also got a look at the test floor where Hughes engineers focus their daily frustrations onto the poor unsuspecting space-bound satellites. With another episode in their search complete, the jobless returned to campus and to their mild-mannered lives as students. Perhaps some of them would be back one day ... this time for pay.

8

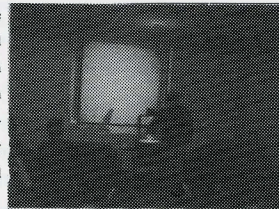
Open Forum

After the results of the EE Student Survey were in, it was time for our annual EE Open Forum. Faculty and students gathered to discuss the results of the survey, as well as issues pertaining to the department and the curriculum. Many faculty attended, including Chairman Wang, Vice Chairman Kolner, and Dean Jacobsen.

One of the more important issues discussed was the implementation of four new classes aimed to provide engineering students with some design experience. Furthermore, the issues of allowing engineering students to take language courses for their humanities requirement and ways of better coordinating classes and labs were discussed.

EE Research Symposium

Every year, Iota Gamma Chapter sponsors a research symposium to inform undergrads about current research topics in the Electrical Engineering Department. As one student wrote in a recent HKN survey when asked how well students are informed about research in the EE Department, the student responded: "You have to inform yourself [by] sneaking around professors." By having these talks, our goal is to bring the EE faculty to the undergrads and to increase student awareness of research opportunities at UCLA. On April 25, 1995, the Third Annual Eta Kappa Nu Research Symposium was held featuring talks from four UCLA Electrical Engineering faculty members. The afternoon began with a talk given by Professor Kanellakopoulos on the challenges in making intelligent vehicle and highway systems. Professor Kolner began his lecture on time lenses, followed by Professor Stafsudd who discussed topics in optical materials research. The afternoon was concluded with a talk by Professor Yablonovitch on "The Not-So-Distant Future of Quantum Electricity." We just hope that students who previously responded to the EE Student Survey have finally found the faculty.



"And I can also make a swan and a dog..."

10

ACADEMIC SERVICES

Independent Research Survey

The EE department offers seniors the opportunity to get hands-on experience in research, while working one-on-one with a professor of their own choosing. Such work can be applied towards a bachelor's degree with accreditation as an EE 199 Special Studies course, which fulfills a laboratory requirement for the degree. These projects introduce undergraduates to an environment which they otherwise seldom see: goal-oriented research (as opposed to duplication of experiments in standard lab classes). The projects thus provide a valuable introduction to graduate-level work and serve to develop greater interaction with the faculty.

Last year our chapter collected information about available research topics from professors and compiled it in a booklet which was made available to students in the department. Much effort was applied to further develop this service during the time since then. Every professor in the department was approached with a detailed questionnaire, and an updated survey was compiled with an expanded range of available research topics. The topics were broken down by research fields, and the survey was posted in a spot well-traveled by EE students (i.e. close to the student lounge and cafe).

The survey has generated and maintained a high level of interest and participation in these projects. We now plan to update the survey on an annual basis. Additional data was collected from the administration regarding enrollment in the projects, and this was broken down into research fields, allowing us to use some feedback in designing next year's survey.

EE Student Survey

During the spring quarter of each year, Iota Gamma Chapter performs a survey on the undergraduates of the Electrical Engineering discipline. This survey is written, printed and distributed by our officers. Distribution occurs during the last 5 minutes of a classroom lecture with the approval of the instructor. The 1995 EE Student Survey was done in the same general manner but with dramatically different questions than those of previous years in order to understand the needs of current undergraduates. This survey is the key topic of discussion for the EE Open Forum.

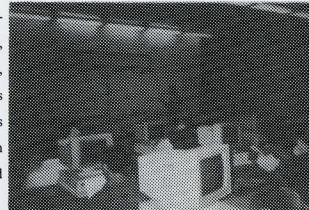
9

Freshman Electronics Workshops

Two of the major concerns many students have about our EE department's curriculum is that there is not enough practical hands-on experience outside of the labs, and that the students do not have much interaction with the department until they reach their Junior year. We decided to address this issue by creating a short three-week series of electronics workshops geared toward the first- and second-year students. Even though it was called "Freshman Workshop," we saw many upperclassmen joining in on the fun. Loud warbling siren noises could be heard in the hallways of the 5th floor Engineering IV buildings as the last workshop in the series came to an end. The workshop program was such a success that we are working on expanding it to an eight-week series with most of the parts being donated by industry and the EE department.

SPICE Workshop

Many of the electronic circuits classes at UCLA have incorporated computer aided design into the curriculum, and SPICE is recognized as the electronics program of the champions. The initiates, may find the program somewhat intimidating, however, so Iota Gamma periodically conspires to disseminate educational propaganda on this issue. An introductory hacking session known as the SPICE Workshop was held recently, and was attended by more than 40 sympathizers.



Chris, the cracker hacker, gave the lowdown on SPICE techniques.

Lab Nights

One of our continuing services to the EE student body is to offer extended hours for the circuits lab. Our officers manage the stockroom each Wednesday from 4 to 7 p.m., allowing students extra time to work on unfinished lab projects, double check results, or work on their own projects.

11

Freshman Welcome Day

Every year the Engineering Society of the University of California sponsors an ice-breaking introduction for its incoming scholars, known amongst civilians as Freshman Welcome Day. The young misty eyed innocents are escorted about the campus by a seasoned veteran force of upperclassmen volunteers. The recruits are split into squads to patrol the university, with a rendezvous at the Engineering Library. A hearty helping of chow is served post-mission. Several of our officers battalion proudly served in this endeavor.

SOCIAL EVENTS

Pizza Night with Professors

We had our second annual Pizza Night with Professors in the fall quarter. This was a time for EE students to meet and socialize with professors and fellow students in a non-academic environment. A room full of hungry EE professors and students went on a feeding frenzy on all-they-could-eat pizza, bread sticks, and salads.



The pizza bandit makes off with the goods.

Broomball

The student groups had assembled together from far and wide to participate in a traditional test of skill known only as Broomball. The challengers, a motley crew consisting largely of representatives from Eta Kappa Nu and Tau Beta Pi, had summoned our most valuable players to defeat ASCE, the reigning champions of the region.

Played on ice, the game at first glance resembles ice hockey, with brooms for sticks and a ball for a puck. However, the use of shoes instead of skates adds an interesting element of balance to the game, and anyone who has ever played knows that the game is soon reduced to hordes of advancing

12

Basketball with CSULB



Aren't you glad you used Dial!

We were challenged by Cal-State Long Beach to a basketball game in the early spring quarter. We gathered at a basketball court in beautiful Hermoso Beach. Our team came out strong, and had a sizable lead, but CSULB managed to make up the difference, and eventually won by 1 point. Such a close game ... too bad the O'Bannon brothers are not Electrical Engineering majors!

Candidate Welcome Barbeque

Last spring, the officers decided to throw a barbeque for new candidates to welcome them to HKN and give them an opportunity to meet our members. The food on the second floor of the engineering complex served as a useful bribe for the unsuspecting candidates, who first listened to a long list of new requirements that the officers had been busily preparing. The BBQ (or perhaps just the smell of something "free") attracted such a crowd of professors and graduate students that we finally ran out of food. It was a mistake we do not intend to make again.



The cook signals to Running Bull in the next county.

14

maniacs brandishing brooms. It is perhaps the ongoing attempt to keep one's balance that makes the game such great fun.

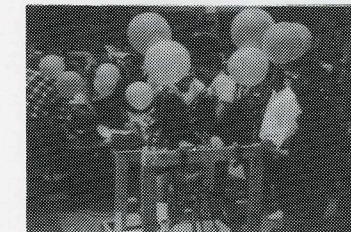
In the Year of Our Lord Nineteen Ninety-Four, we engaged the reigning champions in two tests of skill at the Culver City Ice Rink at 12 midnight. The first bout took place during the fall quarter with over 50 participants, but since we were outnumbered two to one, our side took heavy losses during the game, resulting in our defeat. We were able to increase our numbers, so we challenged them to another bout during the winter quarter of the following year. With the sides now even the game resulted in a stalemate. Without doubt, we shall taste the fruits of victory in our next conflict-on-ice.



HKN sweeps the floor with our competition.

Engineer's Week

Every year, all the engineering student groups gather together to show off their talents and to have fun in a week-long celebration. Numerous project groups presented the fruits of their hard labor to the rest of the campus. A paper airplane contest, box car races, and other contests, and events were held throughout the week. This year, Iota Gamma Chapter decided to team up with the IEEE student chapter



Pedal faster - they're gaining on you!

to build a bicycle-powered generator. Despite a rain delay and a few minor glitches, we still managed to attract quite a crowd, including a group of junior high school students. The huffing and puffing of students peddling the bike to power up a radio, light bulbs, and other electrical devices could be heard throughout the two-hour Newtonian carnival.

13

Barbeque with the Dean

Every spring, Dr. Alan Willson, the Associate Dean of the School of Engineering and Applied Science and faculty advisor to HKN, throws a barbeque for all our members. We had an excellent turnout this year from both students and faculty, which provided a great opportunity for students to talk with their professors away from the on-campus atmosphere. This year the officers decided to introduce a new wrinkle into the initiation process, known only as the "candidate test."



Another breakthrough in the field of cold fusion.

to give the candidates an opportunity to meet all the members, so the officers made sure that each active member at the barbeque had been "seeded" with the answer to a different question. The food and drinks were delicious, as always, and we appreciate Dr. Willson and his wife hosting the barbeque for us each year.

Spring Initiation Banquet

The smell of salt air filled the room as the newly elected members prepared for a night of excellent seafood at Gladstone's in Malibu for the Spring Banquet. The Spring Banquet is our last social event of the academic year and is the last time when members and friends gather together before graduation. This year, we presented the "Shiny Bridge" Award to Michael Jackson (no relation) for his pains-taking efforts at polishing his bridge in the machine shop. We also presented our Certificate of Merit to Mike Sickmiller, our president for the 93-94 academic year, who worked hard during that year to make our chapter award possible.



"Check out my shiny new belt buckle."

15

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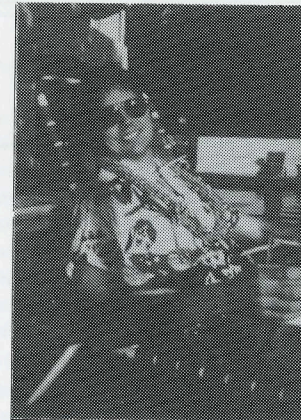
IOTA GAMMA'S FINANCIAL REPORT (1994-95)

Beginning Balance	\$1958.24
Income	
Initiation Fees	2280.00
Corporate Sponsorship	2205.76
Resume Book Donation	820.00
Engineering Society of the University of California Funding	437.50
T-shirt Sale	306.00
Banquet Fees	138.00
Total Income	\$5767.26
Expenditure	
Initiation Banquets	\$2386.40
Food/Drinks for Events	1227.91
National Initiation Fees	800.00
Photocopying Fees	328.94
Corporate Events	318.51
Engineer's Week Project	211.96
Office Supplies	123.75
Phone Bill	74.93
Electronics Supplies	68.95
Eta Kappa Nu Pins	31.50
Total Expenditure	\$5862.85
Ending Balance	\$1862.65

16

FUTURE PLANS

During the 1994-1995 academic year, the Iota Gamma Chapter successfully sponsored numerous events and activities to serve our electrical engineering community. Building on last year's success, we plan to initiate several new beneficial projects and enhance our existing programs. New projects include an Eta Kappa Nu monument to be located outside Engineering IV, home of UCLA Electrical Engineering, a quarterly newsletter containing articles about our on-going activities, and a research board which would provide information about professors' research topics. Furthermore, we would provide new services including a tutoring program and workshops on Matlab and how to create home pages. Areas of improvements to our current programs include Freshman Electronics Workshops and Independent Research Survey. With strong enthusiasm for the betterment of Iota Gamma, our freshly elected officers are eager to witness great success during the 1995-1996 school year.



The treasurer decides to divert excess funds to a worthy cause.

17

MOVING?

Send Your Address Changes to: **HKN BRIDGE**
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