BRIDGE of Eta Kappa Nu

***SPECIAL ISSUE***

Four College Chapters
Win Awards In Eta Kappa Nu's
Outstanding Chapter Activities Program
For The 1997-98 Year

by Alan Lefkow

The Top Eta Kappa Nu College Chapter Winners for the 1997-98 School Year were recently announced by Eta Kappa Nu's Outstanding Chapter Activities Award Committee. Beta Chapter at Purdue won top honors as the National Winner. Three other chapters, each of which typified the spirit of Eta Kappa Nu, received the HKN Certificate of Merit Award for their meritorious programs.

The three Certificate Winners are Alpha at the University of Illinois, Champaign-Urbana; Beta Epsilon, at the University of Michigan; and Kappa Delta at the Florida International University.

The National Winner, Beta, will soon receive its Winner's Plaque which is a metal plaque engraved in color and mounted on a field of red velvet framed in walnut; and the other three winners will correspondingly be receiving their time honored Certificates, each laminated in walnut with gold trim.

All the awards are intended to serve as noteworthy symbols which point to the chapter's distinction as an outstanding chapter.

As in the past, representative reports of the currently selected winners will appear in the HKN BRIDGE. In the past, selected winning reports of such fine chapters have appeared in various issues of Bridge to serve as encouraging examples to all chapters.

For certain, their activities cover a wide range. Popular activities include helping the poor of their community, service to local high schools and other needy entities, support to many events at their own school, providing scholarships and awards to outstanding students, and conducting tutoring programs. Providing Resume books for graduating seniors, providing food at their student lounge, services to alumni (newsletters, record keeping, etc.), evaluating courses and providing course guides, serving as key supporters for Engineering Day, and promoting interaction between students and faculty; these are but a few of the activities and services performed by winning chapters.

In this issue, the Winning Certificate of Merit Reports of Beta Epsilon Chapter and Kappa Delta Chapter are featured. They may be seen on page 12 and page 20 respectively.

NOTE: To all chapters! Chapter contributions of individual self effort, and service to school or community is the name of the game.

Congratulations to all winners, including, of course, Beta chapter at Purdue, which has, by far, the most wins nationally, over all the decades of the HKN Chapter Award Program.

Volume 95 - No. 2
February 1999
PAUL K. HUDSON HKN DEVELOPMENT FUND ANNUAL CAMPAIGN

Established by the Board of Directors in April 1992, this important fund will honor the memory of Paul Hudson, a devoted servant of HKN and a man who truly exemplified the qualities that “balance the bridge.”

The Hudson fund, managed by the HKN Board of Directors, will be used to support the general development of Eta Kappa Nu. For example, the fund will be used where necessary to help support HKN’s national award programs; expansion, including the development of new college chapters and alumni chapters; and chapter visitations by current and past national officers and directors to assist with special occasions. All of these examples represent activities which Paul so heartfeltly endorsed. Other developmental projects will be considered by the Board as funding grows and new objectives important to HKN become established.

As we honor Paul, we also honor donors to the fund by recognizing them as Paul K. Hudson Fellows. Five levels of giving are recognized, as in the form below. One-time donations at any level will be gratefully accepted. In addition, donors may now make pledges for annual donations. All donations will be counted cumulatively for the purpose of establishing the donor’s current level of giving. Fellows at each level will be recognized annually by name in the BRIDGE.

Eta Kappa Nu thanks those who have already become Paul K. Hudson Fellows. We invite all members and friends of HKN to join the growing list of Fellows. And whether or not you are presently a Fellow, consider extending your support of the Hudson Fund on an annual basis. Simply fill out and return the form below. Thank you for your part in supporting and strengthening Eta Kappa Nu.

I wish to become a Paul K. Hudson Fellow at the level of (check one)

Distinguished Fellow ($2000 and above)  
Century Fellow ($1000 - $1999)  
Sustaining Fellow ($500 - $999)  
Supporting Fellow ($100 - $499)  
Fellow ($25 - $99)

with the enclosed contribution of $______

I wish to pledge a total of $______ to the Hudson Fund, at $______ per year for ____ years, beginning ______

NAME __________

ADDRESS ____________________________________________

CITY, STATE, ZIP CODE _______________________

Return to:  Eta Kappa Nu International Headquarters  
Box HKN  
University of Missouri-Rolla  
Rolla, Missouri 65401
EE’s Follow Your Inner Voice! (Even If It Say’s Management Or Marketing) by A. Elizabeth Kidd

I have worked in the technology field long enough to know a few things about our kind: Computer and Engineering professionals. We are a lucky group, one foot in a new millennium opening doors our ancestors only dared to dream of. We are savvy, funny, witty characters in this ‘play’ of life, those of us in computer science as well. In general, we share some basic personality traits. We know the web address for ESPN without having to go to our ‘favorites list.’ We are more likely to communicate with our friends via “@friend” then the “archaic” communications of the fiber-optic network. We view AOL users as “less technical.” We religiously watch or (record) The X Files and are continually searching for “THE TRUTH” (After all, if Mulder says, "It’s out there" then statistically speaking "It’s out there.")

Engineers today order plane tickets over “expedia.com,” not even comprehending why our parents would consider using a real life travel agent. “Techys” of today, quote Homer Simpson in normal conversation; and document, the Internet Newsagazine, all the other minutiae from each show to ensure that they “got it.” “It being the true meaning in each episode. They can tell you, without even looking, from their 3-dimensional display, whether that Star Trek guy is K Klingon or Vulcan. How can you spend discussing how the movies don’t compare to the series, and heated debates can ensue while convincing opponents about the merits of “The Original” versus the “next generation.”

All of these pop culture references bond the “technogeek” of the 90’s.

The ultimate bond however, the bond that has lasted generations, the bond father shares with child, the bond that management shares with subordinate, the TRUE BOND, existing since the days of the slide rule and up to the present day. THE BOND that is stronger than the tensile strength of steel. ... THE BOND that goes above and beyond all others, is the hatred and loathing felt by people toward each other, even if I use the word. SALESPEOPLE.

Now I considered not disclosing to you, from which side of the fence I view this little debate. However, I have been asked to share with you, my background and experience.

I grew up in an engineering-college town and in a home where it was believed that you would only have to do the problem sets that you chose to do. I had a No. 1 toy, a “Little Professor” math calculator. Flash cards were a normal weekend pass-time. I took algebra one year early so I could squeeze calculus in before I graduated from high-school. Words like “final” were jokes around the high school lunch table because it supposedly helped us to remember that force equaled mass times acceleration.

Acting/Performing was my true love, and in high school I always got the choice parts that I wanted. It was what I did well and yearned to do, but thoughts of a career in speech or drama were entirely too far fetched for a logical young lady like me.

So, I thought of a degree in business as a reasonable compromise. I was quickly re-directed by my engineering minded parents, indicating that you could either be an engineer or live life where the words “you would like fies with” that were part of one’s normal vocabulary. They had been correct up to that point in my life, so who was I to question? They wanted what was best for me and as my engineer father taught me, WHO would be able to STAND the life of a sales rep.

I started my Electrical Engineering degree and took all the math and science classes required of me. Before my first summer I interviewed for one of the esteemed “ce-op” positions and was given the chance of a lifetime to work for General Motors for a rotation period. The thought in my head was “lucky and why me?” Why did I get this opportunity when my 3.5 gpa definitely wasn’t the highest grade point. I didn’t start in the highest-levled math courses. I wasn’t in a sorority or even an honor society or organization. I worked, but only on Friday and Saturday nights at a restaurant. I didn’t have AP classes that transferred to college, and I KNEW that I was interviewing against people who had all those things. WHY DID I

GET THE JOB? Let me just put that thought on the shelf and continue with my story.

Next came the job, which basically consisted of copying things, being whistled at as I walked across the plantroom floor, and go back, ALONE with a person in management. It may have been a completely innocent invitation, but Thanks Anyway and Bye Bye! Needless to say my salary today is still a lot less than anyone -- just drew circuits day in and day out. I could barely stay awake after lunch, if I hadn’t been able to take an hour a day to work out, I am not sure I could have sat through an 8 hour day. It was as close to torture being pinned in that cubicle as anything I had ever experienced, yet those around me were enjoying their work. I would have rather continued to wait tables then do this for the rest of my life.

I didn’t want to disappoint my parents, so I compromised again and instead of a business degree, I focused my efforts on obtaining an Engineering Management degree.

This changed my life in two ways. First, I understood that even as students, the prejudice existed toward “less technical” careers. Engineering Management was “looked down upon” by “real” engineers. Anyone in engineering management just “couldn’t make it” as a “REAL” engineer. That was truly the belief, and seemingly fostered by the faculty in the various departments. YET, Engineering Management had the highest percentage of students with actual JOBS when they graduated. Suddenly, there was a pattern starting to emerge. Students who possessed outstanding communication skills got offered jobs.

The second thing I learned was that I LOVED my class curriculum for the first time in my college career. All of a sudden I could even do some of the, computer programmer or engineer, I cannot complete my job! Everyone is in agreement about that. But, here is the flip side: Without someone like me (the salesperson, business manager, client user), you don’t have a job to complete. We simply need each other! That’s a fact.

Let’s both let that sink in for a minute.

If you have the opportunity to take a management, marketing, sales course, I don’t think you will be
disappointed. It will benefit you. Time and time again, I meet with people who have the corner office. Rarely are they the engineer with only an engineering degree. Instead, they're an engineer with an MBA, or a marketing person, who took every communications class offered them by their company. Generally, they are the ones who possess both technical and nontechnical skills. In today's world, if you have both, you are in demand.

As an interviewer of technical people, I have learned to look for the following (believe it or not):

Strong Hand Shake
Posture, and, how if you walk with purpose
Your answer to NON-TECHNICAL QUESTIONS
Your ability to answer a technical question in "layman's" terms
EYE CONTACT
Ability to chin chat, and talk small talk
Confidence

Humor
No Ball

There was a time when I held back a smile on all of that, but (Guess What!) the experts who first mentioned it to me have proven to be right, time after time, in my job!

You are so gifted and so blessed if you have a mind that allows you to be a member of this society, Eta Kappa Nu.

All we have to do is use our mind and be humble enough to accept the fact that just as all "technogeeks" don't fit the stereotype described above, neither do all sales/recruiting/marketing people. We are not all lying, cheating, smart talkers, and I know that I am not so rare.

Many sales people and managers have technical back-grounds. Many have taught themselves and worked their way through the industry to acquire as much knowledge as possible/necessary.

They may not be able to tell us what Olums law is, but, they might just be able to give us the taped copy of the X files, or a favorite that you and I both forgot to record?

Good Luck being yourself. It's a Win/Win & a MUST!

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Eminent Member Listing

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This distinguished event was held at the University of Illinois in conjunction with their new-member induction ceremony. It was attended by faculty, staff and students of the EE Department, as well as by many guests. Dr. Holonyak was honored royally by the entire group. He responded humbly and graciously, in his normal style, by his warm statements of gratitude and encouragement to all.

To further indicate in this report, the kind and quality of the world benefit which has arisen due to Dr. Holonyak’s working efforts, the following list of accomplishments which was cited on the occasion of his receipt of the Japan Prize is included below.

**NICK HOLONYAK, JR.**

(awards, honors, etc.)

- 1962 Cordier Award, GE (first visible spectrum semiconductor laser)
- 1973 Morris N. Liebmann Award (IEEE) - for outstanding contribution to the field of visible light emitting diodes and diode lasers
- 1973 Member US National Academy of Engineering
- 1976 and 1974 Invited guest of the Soviet Academy of Science
- 1975 John Scott Award (City of Philadelphia) - “for his inventions leading to the First Practical Light Emitting Diode”
- 1976 GCA Symposium Award with Weller Medal
- 1977 University of Illinois Center for Advanced Study
- 1981 Jack A. Morton Award (IEEE)
- 1983 Electrochemical Society’s Solid State Science and Technology Award
- 1984 Member US National Academy of Sciences
- 1984 Fellow American Academy of Arts and Sciences
- 1988 Münch Festschau Award of Sigma Xi (the Research Society)
- 1989 Edison Medal (IEEE)
- 1990 National Medal of Science (U.S.)
- 1992 Charles Hard Townes Award (Optical Society of America)
- 1992 Doctor of Science (Honorary Degree, Northwestern University)
- 1992 Honorary Member of the Ioffe Physical-Technical Institute (St. Petersburg)
- 1993 John Bardeen Chair Professor of Electrical and Computer Engineering and Physics
- 1993 National Academy of Sciences Award for the Industrial Application of Science
- 1993 ASEE Centennial Medal
- 1993 American Electronics Association 50th Anniversary Award (“Inventing America’s Future”)
- 1994 Vladimir Karpeloff Eminent Members’ Award of Eta Kappa Nu
- 1994 Doctor of Engineering (Honorary Degree, Notre Dame University)
- 1995 John Bardeen Award (The Minerals, Metals, and Materials Society, TMS)
- 1995 Fellow International Engineering Consortium (IEC)
- 1995 Japan Prize - “for outstanding contributions to research and practical applications of light emitting diodes and lasers through pioneering achievements in the understanding of physical principles and the process technology of interstitial compound semiconductors”
- 1997 Optical Society of America/Nick Holonyak, Jr. Award established

WHEREAS, you, sir, have made a signal contribution to the progress of science and technology and to the prosperity and peace of mankind through science and technology, in recognition of your distinguished contributions, the Science and Technology Foundation of Japan has the privilege and honour to bestow upon you the Japan Prize.

Tokyo, April 27, 1995

The S & T F of Japan

Prof. Jiro Kondo, Chairman
IN MEMORIAM

PROFESSOR THOMAS JAMES HIGGINS

Professor Thomas James Higgins, a distinguished national and international figure in electrical engineering for over 50 years, died September 11, 1988. He worked in industry and as a consultant, but his principle achievements came in the university setting. Thomas J. Higgins was born on July 4, 1911, in Charlottesville, Virginia. In 1932, he received the Electrical Engineering degree from Cornell University, and in 1937 the Masters degree in Mathematics. In 1941, he received the Ph.D. Degree (in Electrical Engineering) from Purdue University. His teaching experience comprised: Instructor (in Mathematics) for one year at Auburn Intercollateg (1933-34); two years at Wyomissing Polytechnic Institute (1935-37); four years at Purdue University (1937-41); Assistant Professor at Tulane University (1941-42); Associate Professor at the Illinois Institute of Technology (1942-47); Professor in 1947-48. He was appointed Professor of Electrical Engineering at the University of Wisconsin in September, 1948, and retired from active teaching, as Professor Emeritus, in June 1982.

Dr. Higgins was experienced also in industry: spending five summers in construction work and field engineering in Ithaca, New York; and having periods of employment with Agfa-Ansco Corporation at Binghamton, New York as field engineer (1934-35), with Ebesco Services, Inc., New York, as a power-systems electrical engineer in the summer of 1941, and doing consulting work for various firms since. He edited the manuscripts of more than 120 textbooks in electrical engineering and associated areas for various publishing companies, has published over 350 reviews and/or discussions of books and papers having to do with electrical engineering, Mathematics and Applied Mechanics, was the author of over 220 research papers published in various scientific and technical journals in the United States and Europe, and was the Editor or an Advisory Editor for seven journals published in the United States and Europe. He supervised 55 Ph.D. theses and over 147 M.S.E.E. theses over his active teaching years. He wrote Advanced Basic Automatic Control Theory, Madison Publica-

A member of 33 professional and honorary so-
cieties, he took leadership roles in many of these (he was a long time Vice-President of the Tensors Society of Great Britain), and served on commit-
tee in a number of them, having been chairman of several. He also served on a number of committees for the Electrical Engineering Department, the College of Engineering, and the University. He adjudicated more than 94 Ph.D. and D.Sc.
theses from various universities in India and Aus-
tralia; and was a member of the Selection Board for Appointment of Professors and Associate Profes-
ers, University of Bangladesh at Dacca, Bang-
ladesh, from 1971 to about 1976.

In 1954, Dr. Higgins received the George Westinghouse Award of ASEE given annually to an electrical engineer for "Outstanding Teaching of Engi-

He received the Benjamin Smith Reynolds Award of the College of Engineering of the University of Wisconsin for "excellence in teaching of future engineers"; in 1964, the Donald P. Eckman Senior Memorial Distinguished Activity in Education Award of the Instrument Society of America for "outstanding contributions in teaching and research in instrumentation and control"; and in 1964, the citation of "Engineer of the Year" of the Wisconsin Society of Professional Engineers in recognition of activities as an "Eminent Educator and Distinguished Engineer." In 1971, he received the "Certificate of Outstanding Service" of the American Automatic Control Council, and the "Annual Appreciation Award" of the IEEE Sys-
tems, Man and Cybernetics Society. More recently he was awarded an IEEE Centennial Medal, in 1982, the Edward P. Mikol Memorial Award for "Best Paper," at the 1986 ASEE Annual North Midwest District Meeting, and has just received the Wisconsin Society of Professional Engineers "1996 Outstanding Professional Engineer in Educa-
tion Award," presented June 21, 1996 in "Recognition of Your Valuable Contributions to Engineering and to Our Organization"; and was named in September 1996 an "Honored Member of the Wisconsin Retired Educators Association" in recognition of his outstanding service in education and dedication to the support of this association.

He was a Fellow and Life Member of the IEEE, the ISA, the AAUP, the AAAS, and the ASEE, Paul Harris Fellow in Rotary; a Life Member of the NSPE/WSPE, a member ofEtaKappaNu since 1944; a registered Professional Engineer in Wis-
consin and (until recently) Illinois; and is listed in "American Men and Women ofScience," "Leaders in American Science," "EIC: Engineers of Distinc-

His major academic activity as Professor of Electrical Engineering entailed the teaching of graduate courses and the direction of graduate study and research in his particular fields of interest: microwave theory; advanced electric-circuit theory; advanced automatic control theory, large-
scale computer theory; computer hardware and machine theory; nuclear reactor kinetics, dynamics and control theory; cybernetics and homeodynamic systems, and numerical solution of electromagnetic (and other) field problems.

A long-sustained interest in the area of continuing education for engineers in practice entailed the organization and conduction of over 20 Institutes and Short Courses during 1960-76 and two decades of teaching night-time graduate-level upgrading courses at UW-Milwaukee during 1950-1970.

His major professional avocation was the study of the history of electrophysics and electrical engi-

A half-dozen published exhaustive bibliographies on the book-length biographies and autobiographies in English of eminent workers in these areas; several exhaustive classified bibliographies of the books and papers published in English on "The History of the Development of Electrical Engineering and Electrophysics"; the "critical" editorship for the published two-volume "Technology in Western Civilization," Oxford University Press, 1966-67; the editing of the December 1970 Special Issue of the Journal of the Franklin Institute, "(Gabriel Kron and) Modern Techniques in Large-Scale System Science," and the co-editing of the September 1968 Special Issue of the Matrix and Tensor Quarterly, "Life and Work of Gabriel Kron," both issued in memoriam of Dr. Kron, (March 1968) great electrical engineer and large-scale system theorist; and the editing of the December 1971 special issue of the Journal of the Franklin Institute on "Modern Aspects of Dimensional Analysis, Similitude, and Similarity." Currently, he was engaged in preparing: updating lengthy Appendices to the above-mentioned bibliographies, and a bibliography of Major Resources for Use in the Classroom Teaching of the History of Technology.


Currently, he was gathering and organizing material for a booklength history of the College of Engineering - UW-Madison relative to coming activity in celebration of the U.W.-Madison's 150th Anniversary in 1998. This activity was an extension of the one chapter history "A Resourceful College of Engineering," pp.27-54 (in the book A Resourceful University: The University of Wis-
consin-Madison in its 125th Year) that he re-

as part of the 125th year celebrations.
Eta Kappa Nu
Chapter Report

Beta Epsilon 1997 - 1998
Celebrating Sixty Years of Excellence

Sixty Years of Excellence in...

We founded Beta Epsilon chapter of Eta Kappa Nu at the University of Michigan on April 23, 1937. Since those early days we have continued to grow and expand as a chapter. Our focus on recognizing and rewarding academic excellence makes us an integral part of the university community. We are proud to be one of the fewEta Kappa Nu chapters that have been in existence for over 60 years.

Scholarship

Our scholarship program is open to all students who meet the eligibility requirements. Not only do we provide financial support, but we also offer mentorship and networking opportunities. Our goal is to help students achieve their academic goals and succeed in their future endeavors.

Community Service

We believe in giving back to the community and that is why we have a strong community service program. Our students have the opportunity to participate in various community service projects and make a positive impact on the lives of others.

Student-Faculty Interaction

Our chapter is known for fostering strong relationships between students and faculty. We provide opportunities for students to engage in meaningful conversations with faculty members, which helps to foster a sense of community and support.

Presidents' Corner

The 1997-1998 school year was not another ordinary year for the Beta Epsilon chapter as it was the 60th anniversary of the Psi Chapter. It was a special year for our local Chapter, and we were honored to celebrate this milestone.

A Word From Our Faculty Advisor

The 1997-98 academic year was the 60th anniversary of the Psi Chapter of Eta Kappa Nu by the University of Michigan. This has been another rewarding year for our local Chapter, and each year brings greater learning and fun.

Division of Labor

The officers are energetic and alert, but they can't do all the work by themselves. We also have some junior officers committed to duties across which take some of the pressure off the main officers. Working together in unity, the Psi Chapter has grown in every respect.

HKN Meetings

Always a great experience for all the officers. The faculty advisor leads their planning HKN meetings, projects, and activities. Working together in unity, the Psi Chapter has grown in every respect.

...and Play!

The officers of the chapter have taken an active role in the chapter’s activities. They actively participate in planning HKN meetings, events, and activities. Working together in unity, the Psi Chapter has grown in every respect.

University of Michigan, Beta Epsilon Chapter

End of Year Report, 1997-1998 Academic Year
The Donut Stand

Mmmm....Donuts

The Donut Stand is a popular student hangout located in the University of Michigan, Ann Arbor. The stand serves a variety of donuts, pastries, and beverages. Customers can enjoy a comfortable seating area with tables and chairs. The Donut Stand is known for its friendly staff and delicious donuts.

The Sam's Club Experience

In the winter of 2010, Sam's Club hosted an event called "Sam's Club Experience." The event was designed to showcase the various products and services offered by Sam's Club. Attendees had the opportunity to participate in interactive demonstrations, sample products, and receive exclusive discounts on purchases. The event aimed to provide a fun and engaging experience for customers.

The Webpage

Welcome to the new webpage for the University of Michigan, Ann Arbor. This webpage features information about the campus, academic programs, and student life. Visitors can explore the latest news and events, access course schedules, and learn about campus resources. The webpage is designed to be user-friendly and provide easy navigation for all users.

Members Past and Present

The University of Michigan, Ann Arbor, has a rich history of members and leadership. Throughout the years, dedicated individuals have contributed to the success and growth of the university. This section highlights some of the notable members who have played a significant role in the institution's history.

How do I Elect into Beta Epsilon?

The University of Michigan, Ann Arbor, is a member of Beta Epsilon Chapter. To join Beta Epsilon, interested students must meet specific requirements. These requirements include academic performance, community service, and personal character. Interested students should contact the chapter advisor for more information.

Our New Actives

The University of Michigan, Ann Arbor, is welcoming new actives into its various organizations. The new actives will be welcomed at a special event, where they will have the opportunity to meet the existing members and learn more about the organization's activities.

An Electing Story

An electing story from the University of Michigan, Ann Arbor. This story highlights the process of electing a new leader within a student organization. The story also emphasizes the importance of fair and transparent election procedures.

Publications

The University of Michigan, Ann Arbor, produces various publications, including newsletters and yearbooks. These publications serve as a platform for students to share their experiences, accomplishments, and perspectives. The publications also help to foster a sense of community and pride among the student body.

Resume Book

The University of Michigan, Ann Arbor, has a resume book available for students to utilize. This book contains resumes of current and past students, providing a resource for students looking for employment opportunities. The resume book is a valuable tool for networking and career development.

EECEspeaks

EECEspeaks is a platform for University of Michigan, Ann Arbor, alumni to share their experiences and insights. These speakers discuss a variety of topics related to engineering and technology, providing valuable information for current students and alumni. The platform also aims to inspire and motivate the next generation of engineers.

End of Year Report, 1997-1998 Academic Year

The University of Michigan, Ann Arbor, Ann Arbor, is required to submit an end of year report to the relevant authorities. This report includes information about the academic year, including enrollment numbers, faculty appointments, and budget details. The report also highlights the achievements and accomplishments of the university during the academic year.
Community Service

Delaware County Pre-College Engineering Program

Discovering the science world around you is not just an exciting adventure, but an important one. Young students from around the world have the opportunity to explore the complex and wonderful world of science through the Pre-College Engineering Program. The Pre-College Engineering Program provides a unique opportunity for students to learn about science and engineering in a fun and interactive way.

Coaching Young Teams

I found an 87-year-old woman named Betty sitting on one of the benches around the park. She was talking about her life and how she had always wanted to be a scientist. I was surprised to hear that she had never actually done any science labs before. She was going to retire soon and she wanted to do something fun with her time. I suggested that she could volunteer with the Pre-College Engineering Program to help teach engineering to young kids. She agreed and has been volunteering ever since. It has been a great experience for both of us.

College of Engineering Events

St. George's Feast and Professor of the Year

The College of Engineering held a special event to celebrate St. George's Feast and announce the Professor of the Year. The event was held in the University Ballroom and was attended by students, faculty, and guests. The event included a dinner, speeches, and a special performance by the university choir. The Professor of the Year was announced during the event and was presented with a trophy. The event was a great success and everyone enjoyed the evening.

Student-Faculty Mixer

The Student-Faculty Mixer was held in the University Ballroom to bring together students and faculty members. The event included a buffet dinner, speeches, and a chance for students and faculty to network and get to know each other. The event was a great success and everyone enjoyed the evening.

Engineering Workshops

Engineering Workshops were held to provide students with hands-on experience in various engineering fields. The workshops included topics such as robotics, electrical engineering, and mechanical engineering. The workshops were attended by students from all over the country and were a great opportunity for students to learn more about engineering.

What our members do...

Gills of the Year

Gills of the Year is a competition held annually to recognize outstanding students in the College of Engineering. This year's competition included a variety of events, including a speech competition, a science fair, and a quiz bowl. The winning team was announced during the competition and was awarded a trophy. The event was a great success and everyone enjoyed the evening.

HKN Academics: Design Projects

The HKN Academics: Design Projects committee is responsible for overseeing the design and execution of various engineering projects. This year's projects included a variety of topics, such as renewable energy, robotics, and computer science. The projects were designed to challenge students and encourage them to think creatively and solve problems.

SpringFest

SpringFest is an annual event that celebrates the beginning of spring. This year's event included a variety of activities, such as a carnival, a petting zoo, and a fireworks display. The event was held at the college's campus and was attended by students, faculty, and guests. The event was a great success and everyone enjoyed the evening.

Get Involved with Sunday!

Get Involved with Sunday! is a program that encourages students to get involved in their community. The program includes a variety of activities, such as volunteering at local museums and science centers, and attending community events. The program is a great way for students to get involved and make a difference in their community.
HKN Students Help Build NASA Project

Over the past few years, a group of students at the University of Michigan have taken part in a project with NASA, which is building a spacecraft to be used in space exploration. The project is called the Michigan Science and Space Operations Center (MSSOC). The students are working on various aspects of the project, from designing and building hardware to developing software for the mission.

Members Experience 'Vomit Comet'

In April 1987, VORTEX (Vehicle for the Orchestration of Risk and Experience) was launched from Edwards Air Force Base. The goal of the mission was to study the effects of microgravity on human physiology and psychology. The experiment was designed to simulate conditions on board the Mir space station, where the crew experiences weightlessness for long periods of time. The experiment involved a group of students who were selected based on their physical and mental preparedness. They spent several months in training and were then flown to Edwards Air Force Base to undergo the experiment.


"The Al-chole is healthy & pleasant & warm."

- William

Jen Schutter

Addit: Dated: Thx God

There has brought my weary legs from feet and now wound a hour while. Though the wind has been carrying away the cold, I do not think that there is much of a temperature. My sponser has sent me a little letter to tell me that he is well and that he is in the right place. I THY

Second try for VORTEX

A second flight of VORTEX was launched in October 1987 from the Kennedy Space Center. The flight was designed to study the effects of microgravity on the human body and to test new technologies for space exploration. The experiment involved a group of students who were selected based on their physical and mental preparedness. They spent several months in training and were then flown to the Kennedy Space Center to undergo the experiment.

Rock Climbing

For these who enjoy the great outdoors and want to challenge themselves, there is nothing like climbing a mountain. The adrenaline rush of scaling a peak, the feeling of accomplishment when you reach the summit, and the breathtaking views from the top are just a few reasons why rock climbing has become such a popular sport.

The Last Word

The last word on the topic of rock climbing is that it is a great way to stay in shape and enjoy the outdoors. It requires a lot of physical endurance and mental focus, but the rewards are well worth the effort. If you are interested in trying rock climbing, there are many resources available to help you get started, such as climbing gyms, outdoor recreation centers, and local climbing clubs. Whether you are just starting out or you are an experienced climber, rock climbing is a great way to challenge yourself and enjoy the great outdoors.

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Prizes

The Kappa Nu chapter is proud of its students who have excelled in different fields. The chapter has a proud record of students who have been at the forefront of their fields and have received recognition in various forms. The chapter is committed to recognizing the efforts of its members and providing them with opportunities to grow and achieve success.

Omega Eta Xi Honor Society: Our chapter is proud to be represented in the Omega Eta Xi Honor Society. This society recognizes students who have achieved outstanding academic achievements.

Award of Merit: The chapter has been awarded the Award of Merit, which recognizes outstanding contributions to the community.

Phi Kappa Psi: Our chapter has been recognized by Phi Kappa Psi, an honor society that recognizes students who have demonstrated academic excellence and leadership.

Kappa Delta Pi: The chapter has been honored by Kappa Delta Pi, an honor society for students who have shown promise in the field of education.

Kappa Delta Pi: The chapter has been awarded the Kappa Delta Pi Award, which recognizes students who have shown outstanding leadership and academic achievement.

Society of American Foresters: Our chapter has been recognized by the Society of American Foresters, which recognizes students who have shown promise in the field of forestry.

American Marketing Association: The chapter has been honored by the American Marketing Association, which recognizes students who have shown promise in the field of business.

American Marketing Association: The chapter has been awarded the American Marketing Association Award, which recognizes students who have shown outstanding leadership and academic achievement.

American Marketing Association: The chapter has been honored by the American Marketing Association, which recognizes students who have shown promise in the field of marketing.

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Historical Events

The Kappa Nu chapter has a rich history and has been involved in various events throughout the years. The chapter has been active in organizing events and has been recognized for its contributions.

1997-1998 Events

Fall: Alpha Xi Xi Chapter: Our chapter was honored by the Alpha Xi Xi Chapter of Phi Kappa Psi, which recognizes students who have shown promise in the field of business.

Fall: Alpha Xi Xi Chapter: Our chapter was awarded the Alpha Xi Xi Chapter Award, which recognizes students who have shown outstanding leadership and academic achievement.

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Nominations Invited for The Ninth Vladimir Karapetoff Eminent Members' Award

Nominations for the ninth Vladimir Karapetoff Eminent Members' Award are now being solicited. Nominations forms and guidelines may be obtained from Donald Christiansen, Eminent Member Committee Chairman, 434 West Main Street, Huntington, NY 11743. In 1991, theEta Kappa Nu Board of Directors announced the establishment of an award in honor of Vladimir Karapetoff, an Eminent Member of HKN and Fellow of IEEE, who died in 1948. The first award was given on April 27, 1992. The award, the Eta Kappa Nu Vladimir Karapetoff Eminent Members' Award, a medal annual to an electrical engineering practitioner who has distinguished himself/herself through an invention, a development, or a discovery in the field of electrotechnology. The fund to support the award was initiated through a bequest from Dr. Karapetoff's wife, R. M. Karapetoff Cobb, herself a distinguished chemical engineer. A monetary honorarium is provided to the recipient, or shared by the recipients, of the award.

Factors which will be weighed by the jury will include the impact and scope of applicability of the invention, development, or discovery; its impact on the public welfare and standard of living and/or global stability; and the effective lifetime of its impact.

Dr. Karapetoff was born in St. Petersburg, Russia, January 8, 1876. His father was an engineer and his mother a student at a military medical school. Dr. Karapetoff emigrated to the United States in 1903 and became a naturalized citizen in 1909. In 1904 he joined the engineering faculty of Cornell University as an assistant professor. In 1908 he was made a full professor and continued in that capacity until he retired from active teaching in 1939. In an account of Dr. Karapetoff's career, his Cornell University colleagues R. F. Chamberlain, N. A. Hurwitz, and Everett M. Strong, recalled his continuing dedication to Eta Kappa Nu. During World War II he was commissioned a Lt. Commander in the U.S. Navy. But beginning in 1942, Kary, as he was known to his associates, began to lose his sight in both eyes, and despite temporary relief through operations, he ultimately lost his sight and schooled himself in Braille and "talking books."

Even after his blindness he seldom missed the annual Eta Kappa Nu Award dinner in New York City, and would address them in "refreshingly original and lucid expositions" of his technical interests. Fellow HKN members viewed these occasions as sort of a "national Kary reunion." His handicap notwithstanding, his cheerfulness, determination, and ingenuity prevailed.

His colleagues remembered him as an accomplished musician on piano, violin, cello, and double bass. He toured the country giving recitals and lectures on Wagner, Liszt, and other major composers, and developed a five-string cello on which violin music could be played. He received an honorary Doctor of Music degree from New York College of Music.

Professor Simpson Linke, writing in the Winter 1984-85 Engineering Quarterly, cited the following excerpt from Karapetoff's Electrical Laboratory Notes, published in 1906, as reflective of the flavor of EE studies in that era:

In coming to the laboratory, bring with you a slide rule, an inch rule or tape, a speed counter, a screw driver and a pair of pliers [sic]. This will save you time and trouble of looking for them or borrowing them. Do not forget to have a pocket knife for skimming off wire; a bicycle wrench is also sometimes very handy to have.

Dr. Karapetoff was the author of several standard texts on electrical engineering that were widely used and revised through several editions, as well as other texts on electrical and magnetic currents, electrical testing, and engineering mathematics. He was a member of AIEE, the Franklin Institute, the AAAS, the American Mathematical Society, the Mathematical Society of America, the American Physical Society, the U.S. Naval Institute, and the U.S. Naval Reserve Officers' Association.

THE COLDEST CHIPMUNK I EVER SAW

by G. W. Swenson, Jr.

The year was 1965 and we were living in one of a row of government-owned houses on the grounds of the National Radio Astronomy Observatory, in the pastoral beauty of the Deer Creek Valley of West Virginia. One day, at my office in the lab building, the phone rang and an excited voice told me that Julie had been bitten by a wild animal. The story tumbled out: my 13-year-old daughter had been watching a literal cat-and-mouse game in the front yard. A Chipmunk would poke its head out of a hole in the lawn, Julie's cat, Freckles, would dash toward it, and the rodent would withdraw, only to reappear at a different hole.

After a few cycles of this, though, Freckles caught on to the scheme, feinted toward the occupied hole, and captured the chipmunk at the other hole when it incautiously appeared. Julie rushed to rescue the unfortunate creature, which bit her on the thumb as it was freed from its captor's grasp. This time the chipmunk did not reappear.

I was concerned Sick and disoriented skunks and foxes had been reported in the neighborhood and there was discussion of a possible rabies outbreak. Over the phone the physician at the neighborhood clinic urged me to recapture the animal and have it autopsied. I was unsure of the appropriate strategy, but Julie merely turned the problem over to Freckles, who repeated her earlier performance quickly and efficiently and delivered her prey without argument. I put the chipmunk into a shoe box and weighed the cover with a brick. Now what to do? I telephoned the State Health Department in far-off Charleston. The pathologist suggested I decapitate the animal and send the head to him. Who, me? The idea did not appeal. The animal was alive and scratching in his box. I called the County Public Health Nurse and asked if she'd do the job. Indignantly I was informed "That's man's work!" Another call to the pathologist revealed that he'd accept the whole animal, that gassing would be a quick, painless, and medically-acceptable mode of execution, and that the remains could be frozen for shipment.

I didn't want the specimen to deteriorate enroute. Cutting a hole in the shoe box, I slipped it over the tailpipe of my car. In about twenty seconds the scratching ceased and a peek revealed the victim peacefully at rest.

In the electronics lab we had facilities for cooling the low-noise amplifiers of radio telescope receivers. I got a large tin can from the cafeteria, lined it with polyurethane foam, and laid the chipmunk to rest therein, surrounded by plastic bags of water to add thermal inertia. Then I poured liquid nitrogen (boiling at -196 degree C) over the ensemble and wrapped the can in more foam and layers of craft paper. Driving at top speed the fifty miles up the valleys to Elkins, I met the afternoon DC-3 airliner to Charleston and dispatched my precious package.

Two anxious days later the pathologist phoned with the good news that the chipmunk had not been rabid. His parting words were, "That was the coldest chipmunk I've ever seen!"
A Life Subscription to the BRIDGE is available at a modest cost of $60. Send a check with name and address to:

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Rolla, MO 65402

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