BRIDGE

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SPRING 1986
Vol. 82—No. 3

The BRIDGE is published by the 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

The BRIDGE is published four times annually – November, February, May, August – and is published by Eta Kappa Nu, Haywood Printing Company, 5th & Ferry Sts., Lafayette, Indiana. Second class postage paid at Champaign, Illinois and additional mailing office. Eta Kappa Nu Association. Subscription price: three years, $7.50; Life Subscription, $30.

Address editorial and subscription correspondence and changes of address to: BRIDGE of Eta Kappa Nu, P.O. Box 2203, Station A. Champaign, Illinois 61820.

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Student Award Winners

Text by
Marcus Dodson

Yvonne M. Utzig
Winner 1985

YVONNE MARIE UTZIG with a GPA of 3.98 ranks in the top 1% of her class, was nominated by Zeta Theta HKN Chapter at California State Polytechnic University, Pomona. She was honored with membership in Tau Beta Pi, Phi Kappa Phi and Eta Kappa Nu and is a member of ASAE (American Society of Architects and Engineers) and SWE (Society of Women Engineers). She expects to receive her BS in EE in August of 1985.
As an Industrial Trainee Mrs. Utzig wrote a memo entitled "Target Scintillation Effects of Track Radar Epsilon Measurements." She assisted in the HKN booth during "Poly Vue '82," an open house day, and was on the '79 Womens Varsity track team. She is active in her several churches.
For recreation she enjoys woodworking, gardening, camping, cake decorating and water skiing.

Wins an all-expense paid trip to the Marriott Lincolnshire Resort for an award dinner in her honor, from the A. B. Zerby Memorial Trust and a gift of $1,000.00 from the Carl T. Koerner Memorial Trust.

THE
ALTON B. ZERBY
OUTSTANDING ELECTRICAL
ENGINEERING STUDENT
AWARD

HONORABLE MENTION 1985

GREG LAWRENCE MEHALL with a GPA of 3.95 ranked first in his class, was nominated by the Beta Epsilon HKN Chapter at the University of Michigan, Ann Arbor. He was honored with membership in Tau Beta Pi, Order of Omega and Eta Kappa Nu and is a member of IEEE.
He developed and demonstrated leadership and organizational skills through serving in offices in honor societies and technical groups. He furthured his interest in electronic communications, while working at IBM in their fiber optics section. He served his community by assisting the elderly and blind, as well as children. He is active in his church.
He participated in intramurial sports, skiing, sailing and bicycling for recreation.

JOHN M. PATRICK with a GPA of 3.98 ranked second in a class of 412 seniors, was nominated by Epsilon HKN Chapter at the Pennsylvania State University. He was honored with membership in Tau Beta Pi, Alpha Lambda Delta, Pi Mi Epsilon and Eta Kappa Nu and is a member of IEEE.
He has written and presented papers entitled "Diagnostic Programming Electrostatic Discharge Protection", and "Low Distortion Audio Power Amplifier" as well as researched and written a paper in "Ultrasonic Imaging" with Prof. K. Shung, Bioengineering Dept. Through HKN he has tutored classmates and his leadership is evidenced through his activities in the Engineering Student Council, IEEE and other organizations. He is a member of the University Choir and Penn State Singers and a voice coach. He is active in his church.
In addition to his music, Mr. Patrick participates in tennis, golf, racquetball and swimming.

JOSEPH THOMAS SAMOSKY with a GPA of 4.0 ranked first in a class of 211, was nominated by Beta Delta HKN Chapter at the University of Pittsburgh. He was honored with memberhsip in Phi Eta Sigma and Lambda Sigma. He is also a member of IEEE.
He has developed techniques in chemical and electromechanical instrumentation, including the necessary software, for laboratory use in neuro research on animal brains. He has taken the necessary basic science courses to enter Medical School and get a BS in Behavorial Neuroscience in April, '86, coupled with his BS in EE. Mr. Samosky has served in the Engineering Student Cabinet and numerous volunteer organizations but most outstanding is his 4 year devotion to the "Skyscraper," the "engineering student" magazine. As editor-in-chief he brought it from near oblivion to an outstanding college magazine.
He has a "ham" radio license and enjoys music, piano compositon and electronic synthesis, including equipment design and construction.

FINALISTS 1985

Mark Lee Heinrich	Texas Tech University
John Edward Jablonski	U. Massachusettes, Amherst
Jeffrey Lowell Scott	North Carolina State U.
Jeffrey Harold Sinsky	John Hopkins University
Jeffrey Landon Smith	U. of Alabama, Huntsville
Michael Davis White	U. of Alabama, Birmingham

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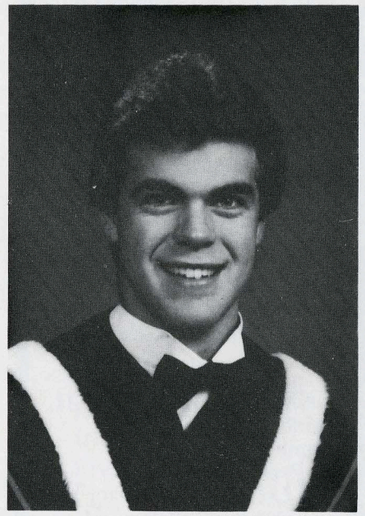
Student Awards

in the

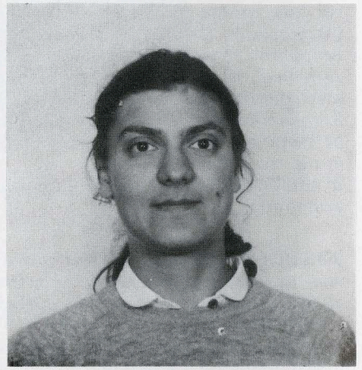
World Region



Sidney W. Allman
University of Manitoba

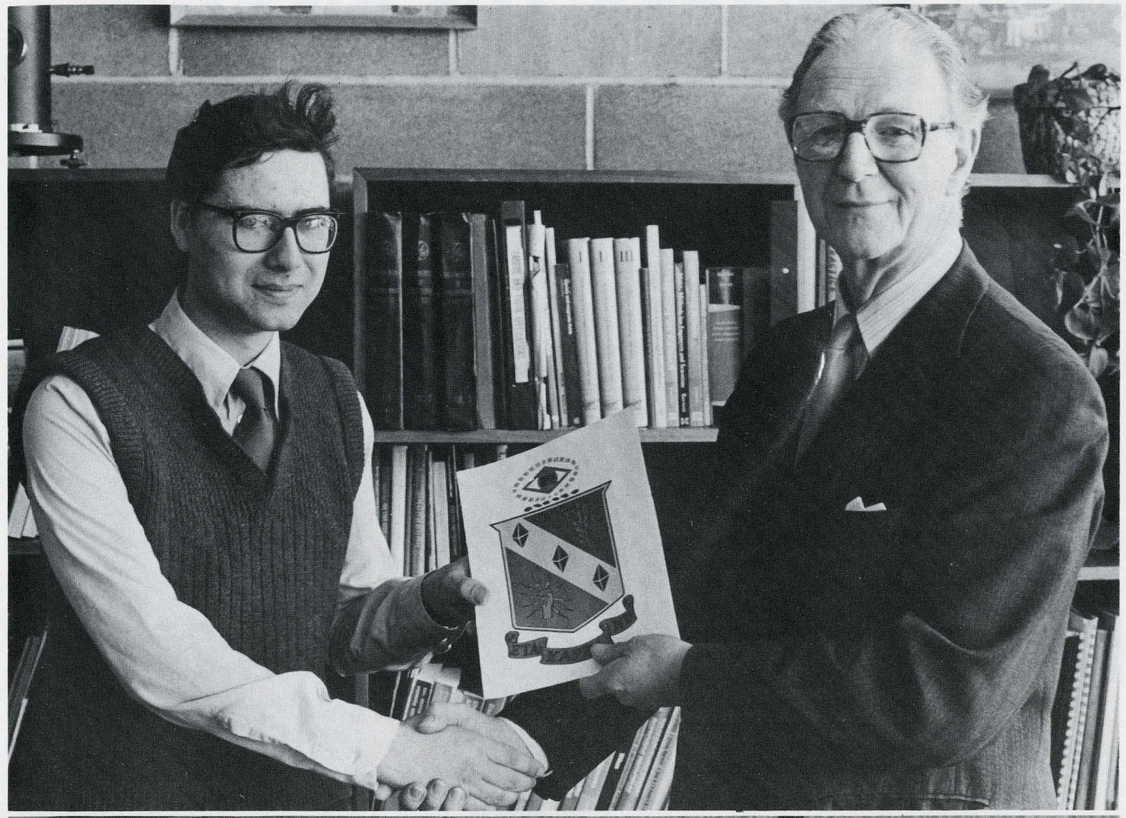
During the past year Eta Kappa Nu presented awards to outstanding students at three universities in the World Region. Mr. Sidney W. Allman of the University of Manitoba, Canada, was nominated by Dr. R. M. Mathur, Head of the E. E. Department and his faculty. Mademoiselle Dorine Szij of the Ecole Superieure d'Electricite, Paris, France, was nominated by Dr. J. L. Delcroix, head of the E.E. Department and his faculty. At the City University, London, England, Mr. Clive Croome was recognized as an outstanding undergraduate student and Mr. Philip Ridgeon was recognized as an outstanding Master of Engineering Student. Both were nominated by Dr. Arthur Ellison, Head of the E. E. Department and International Director of Eta Kappa Nu, and his faculty.

All of the award winners are straight A students and have received numerous other awards. Eta Kappa Nu presented them with substantial monetary gifts from the proceeds of the Paul K. Hudson Trust Fund and membership certificates in Eta Kappa Nu.

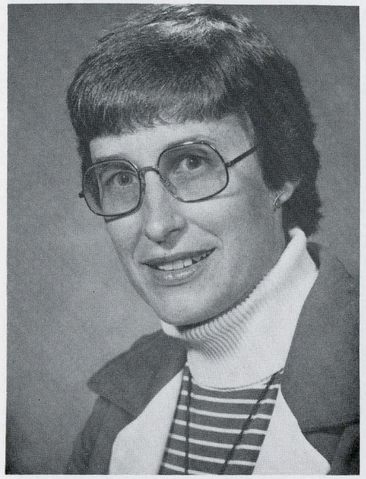


Dorine Szij
Ecole Superieure
d'Electricite

Dr. Arthur Ellison, The City University, presents awards to Clive Croome (top photo) and Philip Ridgeon.



NEW OFFICERS AND DIRECTORS



Joanne Waite
President

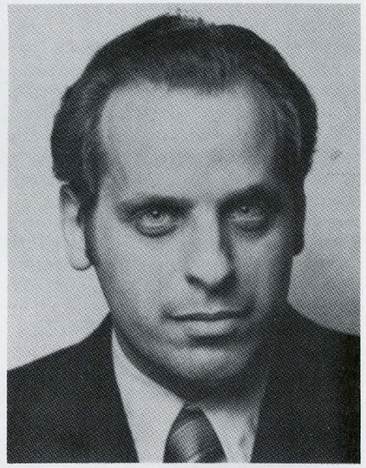
Jo Waite received the AB degree in Physics from Oberlin College, Oberlin, Ohio in 1960 and joined Mutual of New York as a programmer. During the next four years she rose to the position of Senior Programmer, with total responsibility for the company's 1401/1410 Systems, and developed the basic communication software supporting remote inquiry of policy status.

In 1965-66 she accompanied her husband to Australia, where she worked at the Basser Computing Department of the University of Sydney. Upon her return to the US, she entered the MS program in Electrical Engineering at the University of Colorado, Boulder.

Chosen as the outstanding pledge by the Rho Chapter of Eta Kappa Nu in 1967, she served as its Vice President during 1969-70. In 1979 she was elected a Director of the Eta Kappa Nu Association. She is also a member of Tau Beta Pi, Sigma Tau and the Association for Computing Machinery.

While pursuing her master's degree, Ms. Waite spent summers working for the Columbia University Computer Center (1967), the Computer Laboratory at the University of Cambridge (1968) and the Princeton University Computer Center (1969). Her son was born in Melbourne, Australia in 1970 and she devoted the next four years to full-time motherhood.

In 1974 she joined the University of Colorado as a Systems Analyst at the Computer Laboratory for Instruction in Psychological Research, where she developed computer instrumentation for experiments investigating perception and memory. This work involved a local area network linking a variety of microcomputers to a larger machine, requiring a combination of hardware and software expertise that matched her EE and systems background. Since 1980, Ms. Waite has been a Senior Systems Analyst at the University Computing Center. She is in charge of the special projects group, and consults with users developing microcomputer applications.



Alan Lefkow
Vice-President

Alan Lefkow was born in 1942 in New York City and studied electrical engineering at the City College of New York (CCNY). He received his BEE degree in 1965, and in 1968 he received his MSEE from Columbia University.

Upon graduation, Mr. Lefkow joined American Electric Power as a systems planning engineer, responsible for the development of subtransmission power systems that served various regions of the State of Ohio. In 1969 he joined Consumers Union (CU), publisher of *Consumer Reports*, where he directed that body's personal computer, electroacoustic and audio product evaluation programs. He left CU in 1984 to join Singer-Kearfott where he is currently involved with interface management of spread spectrum communication systems for the armed forces.

Mr. Lefkow became active in HKN affairs immediately after his induction at CCNY. He was elected President of the college chapter in 1964, a year for which the chapter won the Outstanding Chapter-Activities Award.

After graduation, Mr. Lefkow became active in the New York Alumni Chapter of Eta Kappa Nu. At that time he also joined the HKN Outstanding Chapter Award Committee. Working his way through the ranks, he became President of the alumni chapter in 1969. In 1971 he was appointed National Chairman of the Chapter Award program, a position he holds today. During this period of chairmanship, over 47 Chapter-Activities Awards, in a variety of categories, were presented in the competition.

In addition to these activities, Mr. Lefkow is a contributing editor to the *Bridge* and has represented National Headquarters in the installation of Eta Kappa Nu college chapters in the New York tri-state area.

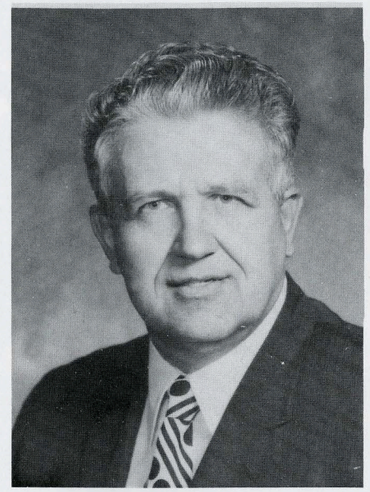
Besides belonging to Eta Kappa Nu, Mr. Lefkow is a member of Tau Beta Pi, Blue Key, and IEEE. Among his special interests are music, civic affairs, and amateur radio.

Alfred L. Arnold
Director

Professor Arnold is a professor of Electrical Engineering at GMI Engineering and Management Institute in Flint, Michigan. He is 49 years old, married with five children. He holds the BSEE degree from Michigan State University with graduate studies at Michigan State and the University of Michigan.

He has been on the GMI faculty for 23 years. Prior to this he was an electrical engineer for the AC Spark Plug Division of General Motors working on the design and application of ground support test equipment for inertially guided missiles. His present fields of interest are circuits and linear systems analysis, controls, and energy management systems. He is Chairman of the Electrical Engineering Curriculum Committee at GMI. He is past Chairman of the Northeast Michigan Section of IEEE and recipient of the GMI Alumni Teaching Award in 1981.

Professor Arnold was instrumental in the establishment of Theta Epsilon Chapter of Eta Kappa Nu in 1978 and has served as Faculty Advisor since that time.



Eugene Mleczko
Director

Eugene L. Mleczko was born in Los Angeles, CA on October 29, 1923. He served in the U.S. Navy from Feb. 1942 to Feb. 1946. He received his B.E. degree in Electrical Engineering in Jan. 1947, from the University of Southern California. While a student at USC, he served as an officer in the IRE and AIEE Chapters; secretary/treasurer and vice-president of Upsilon Chapter of Eta Kappa Nu; and president of Delta Chapter of Tau Beta Pi. He holds two electronic/electromechanical patents; has prepared and presented several papers at technical symposia; and authored the section on "Instrumentation Systems" for McGraw-Hill's *Basic Electronic Instrument Handbook*. He was a member of the Engineering Faculty at USC, teaching undergraduate and graduate subjects in Electrical Engineering and Electronics.

Mr. Mleczko worked for two years as engineer-in-charge of design, construction, and operation of a commercial radio station. Then in Jan. 1949, he joined General Tire & Rubber of California R & D laboratory, which later merged into Aerojet-General Corp. He worked in numerous Defense and Aerospace oriented technical and management assignments for Aerojet for almost 18 years. These ranged from infra-red missile guidance; definition of man-rating requirements and criteria for rocket propelled manned platforms; Technical Director of the Missile Range Division, planning and forecasting requirements 15 years into the future for the Pacific Missile Range; and Management of Marketing and Customer Relations. He joined the Hewlett-Packard Company in 1966, where he served as a Computer Specialist; Divisional Engineering Manager; and Business Manager for more than six years. He joined the Jennings Division of ITT, as its Director of Marketing, responsible for all sales and marketing activities on a world-wide basis. This was followed by a position at OMRON Corp. of America as Asst. Div. Manager, responsible for program management, business planning, and contract administration for its Information Products Div. He was then appointed General Manager for ALVEY/Control Flow, a material handling equipment company, specializing in manufacture of sophisticated electronically controlled heavy machinery. In 1978, Mr. Mleczko re-entered the Aerospace/Defense Industry, when he was employed by the McDonnell Douglas Astronautics Company for its Harpoon Anti-ship Missile Program. After some initial management assignments, he is now responsible for the International applications of Harpoon, in his capacity as Manager—Harpoon International Programs.

Mr. Mleczko is married to the former Kathryn Flora Berridge, who attended Michigan State College (now University). They met when whe was a soloist with the Burbank Civic Light Opera Company and the Burbank Symphony Orchestra in California.

The First Time I Saw Paris

part eight

Victor and Edmond

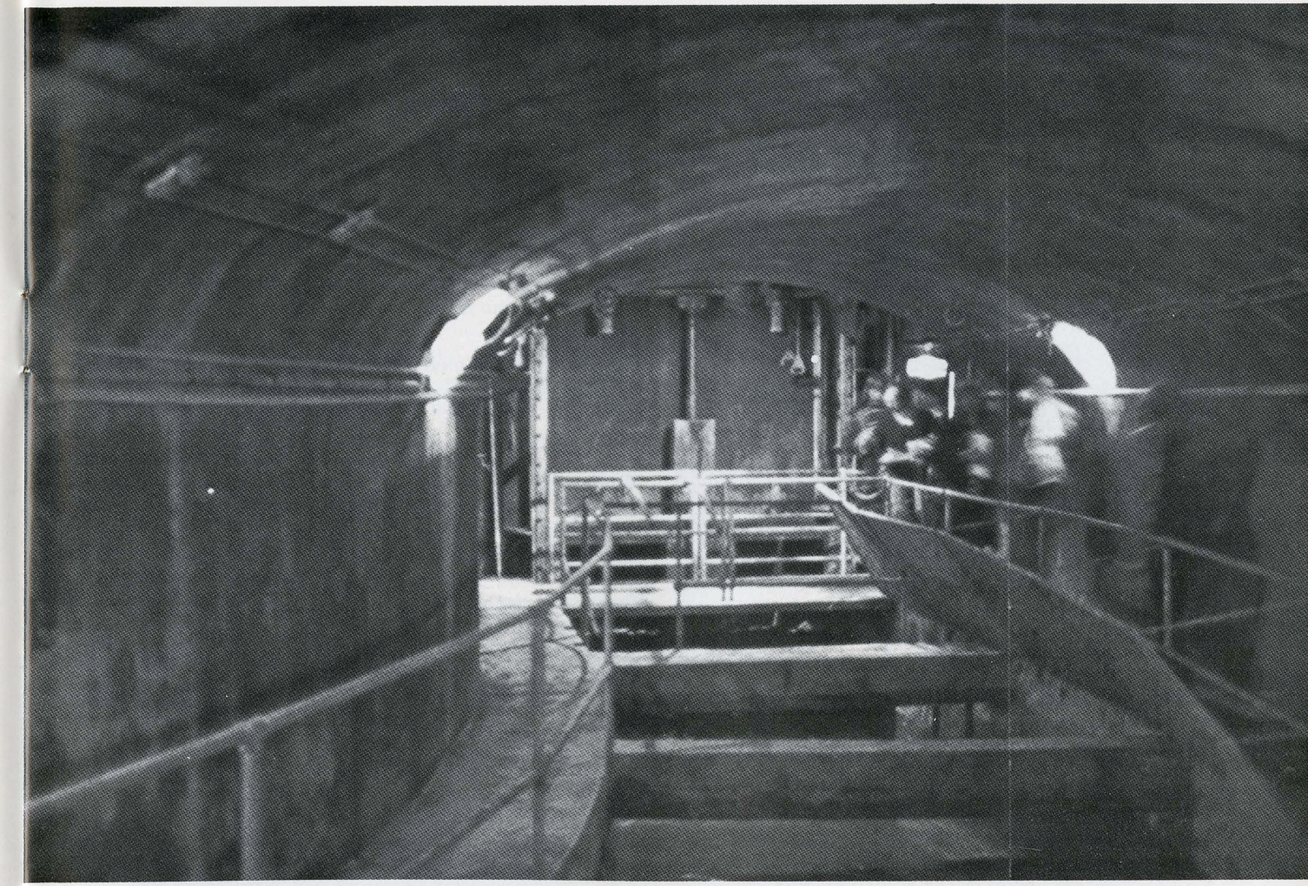
by PAUL K. HUDSON
Editor — Bridge

Anyone who is interested in Victor Hugo could spend a week visiting things associated with him. There is an Avenue Victor Hugo extending from the Arch of Triomphe to the Place Victor Hugo and beyond. There is another Victor Hugo Boulevard in the adjacent town of Neiully. The reason I knew about that was because it is the location of the American Hospital. I would never had been willing to go to Paris without knowing where that was. There is a Victor Hugo Museum in the south-east corner of the Place Vosges, which is not far from the Cathedral and east of it. Hugo is buried in the Pantheon which is just a short way south of the Cathedral.

There are many things associated with Hugo's masterpiece *Les Miserables* which are of great interest. Towards the end of the book there is street fighting at a barricade. The hero, Jean Valjean, wants to get the injured young man Marius away from there to save him for his sweetheart Cosette. The only way he can do it is to carry him on his shoulders through the filth of the sewers of Paris—*the intestines of the leviathan* as Hugo calls them. So—believe it or not, you can take a guided tour through the sewers of Paris. You do not wade through the filth as Jean Valjean did, but use a walkway built for the workers. The tours are twice a week and start from the Alma Bridge, up river just a few feet from the Eiffel Tower. As you walk along, the guide points out things of interest such as "Now there is the connection to Maxim's Restaurant." I cannot believe there is another city in the world where you can take a regularly scheduled tourist guided tour of the

sewers—or would want to. You couldn't winch me into the sewers of New York City.

One of the minor but unforgettable characters in the book is the little urchin named Gavroche. He has no home and lives as best he can from the streets. But he does not sleep in the streets or under the bridges. He has his own private place. There is a



Tourists (center right) enjoying a guided tour through the sewers of Paris—The Intestines of the Leviathan.

large lathe and plaster elephant standing in the Place de la Bastille, in honor of Napoleon's campaign in Egypt. Gavroche found a way to get inside the elephant and he sleeps there. He covers himself with a wire-mesh tent to prevent the rats from eating him. The Bastille is, of course, gone but in its place is a monument called the *July Column* in honor of Parisians killed in July 1830 and 1848. This is the location of the elephant where Hugo imagined Gavroche to sleep. (see Photo). Gavroche does not get to grow up. He is shot dead at a barricade during street fighting. He has his rendezvous—a la Alan Seeger—of which there have been so many real ones in Paris over the centuries:

I have a rendezvous with Death
At some disputed barricade
When Spring come round with rustling shade
And apple blossoms fill the air
It may be He shall take my hand
And lead me into His dark land
etc, etc,

Even Napoleon Bonaparte, with all his popularity, often worried about the terrible street barricades. There were no boulevards in those years and the street barricades could completely shut down the town and the country. On one occasion, when things were not going well in the field, he said to his officers, "I wonder what Paris will think of this."

I have a rendezvous with Death
At midnight in some flaming town
When Spring comes north again this year.
etc,

Hugo himself was a most unusual man. He had a serious run-in with Napoleon III and that is in his favor. Anyone who had trouble with that guy couldn't be all bad. He was a keen observer and had deep feelings. Yet on the other hand his personal life was definitely on the seamy side. Hugo was totally and utterly irresistible to women, they were totally and utterly irresistible to him an he had an infinite

Place de la Bastille

---

biological capacity for what was involved. His conquests were beyond counting — two hundred in one five-year period. Prince Lir's famous song could well have been written for him:

When I was a young man and very well thought of,
I couldn't ask aught that the ladies denied.
I nibbled their hearts like a handful of raisins,
And I never spoke love but I knew that I lied.

The years drifted over like clouds in the heavens;
The ladies went by me like snow on the wind.
I charmed and I cheated, deceived and dissembled,
And I sinned, and I sinned, and I sinned, and I sinned.

A normal day of Hugo's sinning included a minimum of four young ladies—a different four (or more) each day. For numerous reasons the one in the morning usually was paid. However, the ones in the evening usually paid him and the two in the afternoon were Dutch-treat. If all this seems incredible, we can only reply that it does not tell half the story of Hugo's romantic escapades. But that is the trouble with fame and fortune—you can do what you want but someone always writes it down.

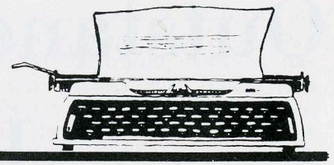
If we go about a half-mile south of the river on the Boulevard Saint Michel, we come to the Place Edmond Rostand. It is fitting that the City should honor him even though he is remembered by the general public for only one artistic communication—his masterpiece—*Cyrano de Bergerac*. It was a bomb-shell when it was first produced and historians have tried to explain its phenomenal success. Some have pointed out that the other plays that were being presented in France at the time were very bland and humdrum and that Cyrano was a welcome relief. That is not the answer, however, because the play, in translation, was an equal an immediate success in all the other countries of the world. *Cyrano de Bergerac* will always remain a part of our cultural heritage for the simple reason that every man in the world who really is a man has some of Cyrano's blood in him.

VALVERT:
O—These arrogant grand airs!
A clown who—look at him—not even gloves!
No ribbons—no lace—no buckles on his shoes.

CYRANO:
I carry my adornments on my soul.
I do not dress up like a popinjay;
But inwardly, I keep my daintiness
I do not bear with me, by any chance,
An insult not yet washed away—a conscience
Yellow with unpurged bile—an honor frayed
To rags, a set of scruples badly worn.
I go comparisoned in gems unseen,
Trailing white plumes of freedom, garlanded
With my good name—no figure of a man,
But a soul clothed in shining armor, hung
with deeds for decorations, twirling—thus—
A bristling wit, and swinging at my side
Courage, and on the stones of this old town
Making the sharp truth ring, like golden spurs!

Walter Hampden as Cyrano de Bergerac.

High Five



Fun with numbers—select any two digits. Multiply the first one by 5, add 7 and double the answer. Add the other digit selected and subtract 14. The final answer will be the same two digits you selected at the start.

Example—suppose we select the digits 4 and 8. Multiply $4 \times 5 = 20$. Add 7 and get 27. Double this and get 54. Add the other digit 8 and get 62. Subtract 14 and get 48. The 4 and 8 of this answer are the same two digits we started with.

When things go wrong as they sometimes will
When the road you're trudging seems all uphill
When the funds are low and the debts are high
And you want to smile but you have to sigh
When care is pressing you down a bit
Rest, if you must, but don't quit.

"The two worst things in football are: 1, they think that a 30-year-old professional athlete has to be locked up in a hotel room, with a curfew, the night before a game; and 2, they're right."—**Safety Cliff Harris.**

"Football is not a contact sport. It is a collision sport."—**Coach Duffy Daugherty.**

"Pro football is like nuclear warfare. There are no winners. Only survivors."—**Halfback Frank Gifford.**

"Football is a game designed to keep coal miners off the streets."—**Author Jimmy Breslin.**

"Don't bother to read the playbook. Everybody dies in the end."—**Receiver Pete Gent.**

"Throwing a pass and seeing a man catch it and seeing him in the end zone and seeing the referee throw his arms up in the air, it's an incredible feeling. It's like your whole body is bursting with happiness. I guess there's only one thing in the world that compares to it."—**Quarterback Joe Namath.**

"I tackle everybody and then throw them away until I come to the one with the ball."—**Defensive tackle Big Daddy Lipscomb.**

The professor was listening to a student expound on Darwin's theory. "Darwin says we descended from monkeys. My grandfather may have been a gorilla," he informed the class, "but it doesn't worry me."

"Perhaps not," agreed the professor. "But it must have worried your grandmother."

Some years ago, the keyhole columnists who delight in journalistic peeping gleefully reported the courtship of banker Terence Hartigan. It seems that Hartigan fell in love with Bubbles McGrath, a *danseuse* in Billy Minsky's burlesque. For several months, he squired her about in the fashionable circles of New York and Connecticut, and showered her with gifts. Deciding to marry her, and being a cautious man, he prudently hired a private detective to look into her antecedents and check on her current activities and associates. Hartigan was not about to make any rash mistakes. At last, he received the detective's report:

"The lady in question enjoys an excellent reputation, despite her burlesque career. Her past is spotless. Her associates outside the burlesque house are irreproachable. The only breath of scandal in her life is that, in recent months, she has frequently been seen in the company of a banker of doubtful reputation."

Birth of the Blues
King David and King Solomon
Lived merry, merry lives,
With many, many lady friends
And many, many wives;
But when old age crept onwards,
With all its many qualms,
King Solomon wrote the Proverbs
And King David wrote the Psalms.
(Patrick Ireland)

The best short course in human relations we've heard about is this one published by columnist Norton Mockridge: "The six most important words in our language are, *I admit I made a mistake.* The five most important words are, *You did a good job.* The four most important words, *What is your opinion?* The three most important words, *If you please.* The two most important words, *Thank you.* The single most important word, *We.* And the least most important word, *I.*"

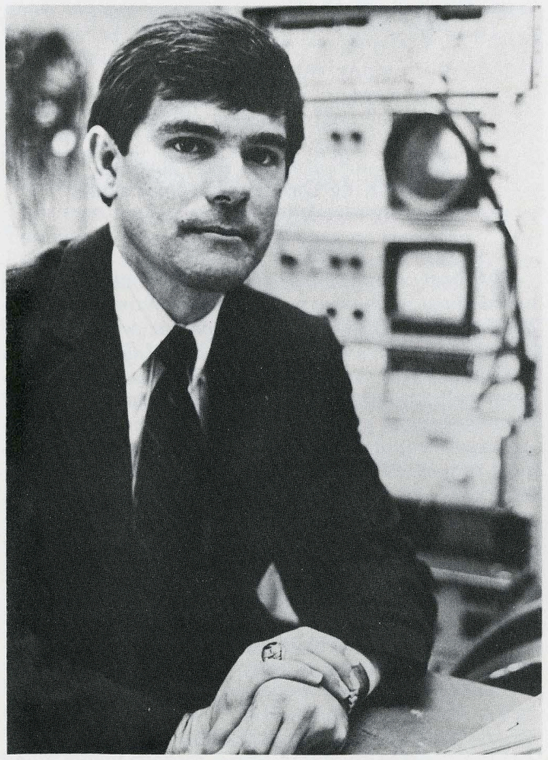
If there were dreams to sell,
What would you buy?
Some cost a passing bell;
Some a light sigh,
That shakes from Life's fresh crown
Only a rose-leaf down.
If there were dreams to sell,
Merry and sad to tell,
And the crier rung the bell,
What would you buy?
(Beddoes)

Outstanding Professor Awards

Andrew Blanchard
Winner

Ronald Roedel
Honorable Mention

Text by
John Spare



Andrew J. Blanchard

The 1985 winner of the prestigious C. Holmes MacDonald Outstanding Teaching Award for Young Electrical Engineering Professors is Dr. Andrew J. Blanchard of the University of Texas at Arlington.

As usual, the finalist candidates who survived the preliminary screening by the Philadelphia Alumni Chapter for consideration by the national Jury of Award all had most impressive credentials. Furthermore, the convincing dossiers assembled by the undergraduate chapters prove that a genuinely dedicated teacher is still highly regarded and appreciated by his diligent pupils. Eta Kappa Nu is proud to single out Dr. Blanchard for this well-deserved honor, but it also recognizes the other well-qualified candidates and the efforts in their behalves by their nominators. In particular, the Jury was so impressed by Dr. Ronald J. Roedel of Arizona State University that he was recommended for honorable mention.

Dr. Blanchard received his early electrical engineering degrees from the University of Southwestern Louisiana and Colorado State University and his Ph.D. at Texas A&M in 1977. He has been at UTA since 1979 and became an associate professor in 1983. His professional activities include significant industrial research, leadership in technical societies, and important contributions to his academic department and university. All these are necessary attributes, and he has them in abundance, but it is as a superior teacher that he truly excels. His specialty, electromagnetic fields, often confounds students because they can no longer rely on their senses as they did in describing heat, light, sound, and even electric circuits. Dr. Blanchard overcomes this mystery with patience, understanding, and plenty of practical examples. When the haze persists for certain students, he devotes hours to one-on-one tutoring in his office. His genuine interest in developing enthusiasm and scientific awareness in young minds is phenomenal, and his success in attracting graduate students to his specialty and in securing funding for advanced research speak for his persuasion and dedication.

The present vitality of the Epsilon Mu chapter of HKN at UTA is another tribute to Dr. Blanchard's leadership. When he became faculty advisor, membership was declining, morale was low, and activities were almost non-existent. Now it is a very dynamic group, and election is a recognized and much-sought honor. Activities include academic, technical, and community projects, such as assistance to Cook's Children's Hospital.

Most of Dr. Blanchard's research and publications are in the area of field theory, antennas, and remote sensing (radar and geoscience). He has authored or co-authored over 35 technical papers and has been invited to participate in more than 15 lectures and seminars.

In IEEE Dr. Blanchard has been very active in two groups: Antennas and Propagation, and Geoscience and Remote Sensing, presently serving as editor of the latter's Newsletter. In 1982 he chaired a special session of an International Symposium on Geoscience and Remote Sensing in Munich, FRG, and in 1983 he chaired a meeting on Radar Geology in Salt Lake City—both IEEE-related functions. He has been recognized as a Research fellow of the Texas Engineering Experimental Station.

Outside the classroom, Dr. Blanchard has been a consultant to many government and industrial research and engineering organizations, including such well-known groups as NASA, JPL, TI, and Conoco. Last year he formed his own company, Technology Consultants, of Arlington, Texas. He is a Registered Professional Engineer in Texas.

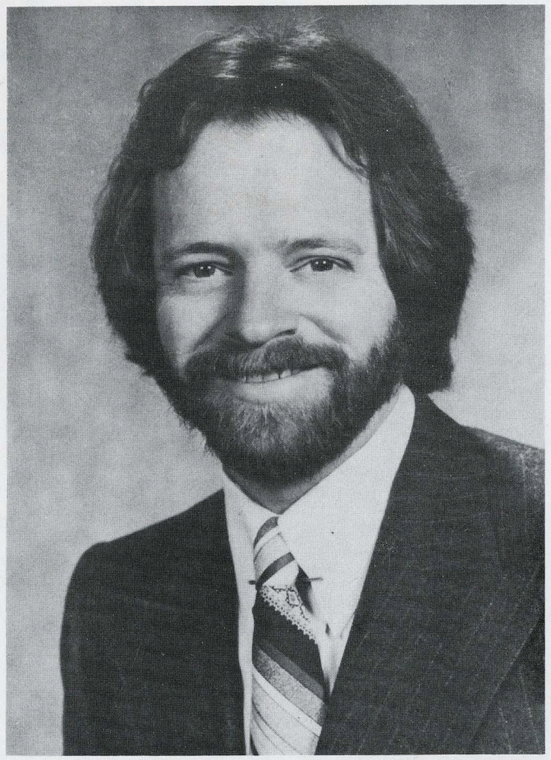
No well-rounded professional man shirks civic responsibility. Engineers in particular are especially qualified by training and experience to contribute to their communities. No exception, Dr. Blanchard is active in his local school district and his church. To be an informed citizen, he considers it his duty to keep abreast of local, state, and national affairs and to give voice to his opinions where his background warrants.

Although, as required, the undergraduate chapter at UTA initiated Dr. Blanchard's nomination, it was heartily endorsed by his department head and the dean of engineering. All emphasized his dedication to effective teaching at all levels, his thorough preparation for every class and lecture, his continuous accessability and concern for students, his contagious enthusiasm for his subjects, his high standards of professionalism, and his well-rounded civic responsibility. In short, he is an outstanding young electrical engineering professor, highly deserving of being honored with the C. Holmes MacDonald Award.

Dr. Ronald J. Roedel, Associate Professor of Electrical Engineering at Arizona State University in Tempe, who received honorable mention, has degrees from Princeton (magna cum laude) and UCLA preceding his Ph.D., also from UCLA, in 1976.

Like the winner, Dr. Roedel is known on campus for the unusual amount of time he devotes to his students. He is a dedicated instructor, emphasizing first principles, but challenging students to original thought in applications. Students invariably remark on the enjoyment of his classes, even in such esoteric topics as quantum mechanics. Dr. Roedel regularly schedules voluntary recitation periods, where blackboard solution of optional problems is an informal team effort. Attendance is always SRO.

Dr. Roedel was faculty advisor to the ASU HKN chapter from 1981 to 1985, and he serves on a number of faculty committees. His research is funded by four industrial sponsors in addition to DOD, SERI, and NSF, providing support for six graduate students and purchase of advanced laboratory apparatus. His more than 20 technical papers cover many semiconductor topics,concentrating on LED's and other electro-optical phenomena. NSF has recognized Dr. Roedel as one of the first recipients of the prestigious "Presidential Young Investigator" award for his work on "Processing GaAs Semiconductor Materials".



Ronald J. Roedel

and part of which I was

Recollections of a Research Engineer

George H. Brown

Nicoletta

The ringing of our telephone one evening in the summer of 1955 changed our lives for many years to come. My wife answered and turned to me.

"That was a representative of the Experiment in International Living. I just agreed to take a girl from Genoa as our guest for one month."

A few weeks later, the Italian contingent made up of five young ladies and their leader arrived. Three of the girls were sisters, Birri, Gigina, and Marina Accame and Birri was assigned to us. During the next month there was a busy round of parties at the homes of the official hosts, capped by a dinner prepared by the Italian girls. Many other friends helped to introduce Birri to American life by inviting us to dinners. When the group departed in September, we promised to come to Italy to renew our friendships.

Four years passed before we were able to fulfill our promises. Elizabeth then went to Genoa and spent two weeks at the Accame home with the girls and their parents. She then came to Milan where she met me at the Malpensa Airport.

A few days in Milan were followed by several in Venice before flying to Florence. Birri and Gigina met us there and we all went to the home of their older sister. Caterina Adori-Braccesi. Caterina and her husband, Mario, lived in an apartment next to the Strozzi Palace. Here we were inspected by three little girls, Nicoletta, Cecilia, and Beatrice Adorni-Braccesi. Nicoletta, the eldest, was just eleven years old.

We so enjoyed being with Gigina and Birri as well as the Adori-Braccesi family that we returned to Princeton and attended the Italian language classes at the Princeton Adult School for five years. In the ensuing years we have been to Genoa and Florence many times and to the family farm at Cecina, while Birri and Gigina have returned to our home in Princeton.

In 1968, Nicoletta wrote to tell us that she was joining the Experiment in International Living in a visit to the United States. She told us the date of her arrival in New York and that she and her companions were to be taken by bus the same day to the headquarters of the Experiment in Putney, Vermont, for a few days of indoctrination before going to the western part of the country for several weeks. After this sojourn, Nicoletta was to visit us in Princeton for a month before returning to her home in Florence.

My wife immediately wrote back to Nicoletta to tell her that we would be at the airport in New York to greet her, if only for a few minutes before her departure for Putney.

Back came the reply, "It will be wonderful to see you. We are arriving at the Bradley International Airport at two-thirty in the afternoon of August eight."

This information was startling when a little research revealed that this airport was halfway between Hartford, Connecticut, and Springfield, Massachusetts, one-hundred and fifty miles from Princeton.

But a promise made is a promise kept so on the appointed day we drove to the Bradley International Airport. We walked all over the building trying to find the point where this charter flight would arrive. The information desk was of no help. We inquired at several airline counters where the attendants were uninformed. Finally a janitor pushing a broom near us volunteered that charter flights did not come to a gate but disembarked at a large Quonset hut which served as a customs building.

We rushed to the customs shed just as the huge aircraft arrived and the Italian young people began to file down the stairs from the plane and into the customs area. We watched carefully as the young persons appeared at the door of the aircraft. Would we recognize Nicoletta now that she was a young lady? Finally and almost the last of the crowd, Nicoletta stepped through the door, waved and gave us a bright smile, and disappeared into the customs building.

Now that we were satisfied that she had arrived safely, we looked at the waiting crowd. Near us, we saw two young men and a young lady holding a cloth sign eight feet long and two feet high mounted on two long poles and bearing the words "Nicoletta—Welcome to U.S.A."

I rushed to the trio and asked, "Are you waiting for Nicoletta Adorni-Braccesi?"

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Assistant BRIDGE Editor Dr. George H. Brown was formerly Executive Vice President for Research and Engineering for the entire RCA Corporation

Nicoletta

One of the men explained that they were waiting for Nicoletta di Meglio whose father was an important member of an Italian power company. The sign bearers were employed by an engineering company in Hartford which did extensive business with the Italian company. These people had been delegated to meet the Italian girl and take pictures of her with the welcoming sign and the welcoming committee. I learned of another problem facing them. They had forgotten the camera and were frightened at having to rush back to Hartford for this vital piece of equipment before the bus left for Putney.

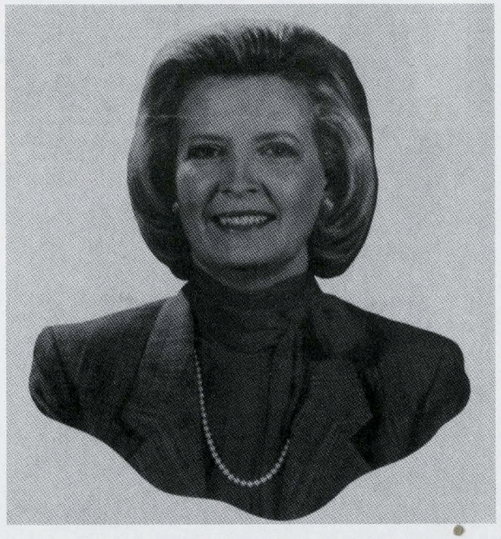
As I listened to this plaintive tale, a young man with a Polaroid camera hanging from his shoulder strolled by. I accosted him, gave him five dollars, and hurried him back to the sign bearers who had just found their Nicoletta. My photographer produced two pictures of the sign, the girl, and her relieved greeters, who gladly presented me with the sign.

When Our Nicoletta stepped out of the customs area, she found us holding the huge greeting. Before we could explain how we had obtained the sign, she was hustled onto a bus and departed for Putney.

We discarded the poles, folded the sign and brought it back to Princeton. A month later, when Nicoletta came from her western journey to visit us, she was again greeted by the sign, this time displayed on the porch of our home. Nicoletta in the meantime had written to her parents to tell them of the sign awaiting her at the Bradley International Airport. Her mother, Caterina, wrote to thank us for our kindness and to say she wept when she heard of the welcoming sign. This made it difficult to explain that it was my flair for serendipity and opportunism that made possible the portable greeting card so we have never had the courage to reveal the truth.

Executive Secretary Honored

Professor Earl Steele (left) Junior Past President of Eta Kappa Nu, acting in behalf of the Governor of Kentucky, Martha Layne Collins, Presents Eta Kappa Nu's Executive Secretary, Professor Paul K. Hudson, with a Commission as *Kentucky Colonel*. The presentation took place at an Award Dinner in the Marriott Lincolnshire Resort on August 3rd.



Martha Lane Collins
Governor of Kentucky

Commissions as *Kentucky Colonel* were first presented during the War of 1812. The Honorable Order of Kentucky Colonels was chartered in 1932. It is now primarily a social and charitable organization.

Donald Christiansen...

Eminent Member

On August 3rd, 1985, at the Award Dinner in the Marriott Lincolnshire Resort, Brother Donald Christiansen was made an Eminent Member of Eta Kappa Nu. Eminent Membership is reserved for senior engineers who are benefactors of mankind, and is awarded on average no more than once a year. Because Bro. Christiansen was already a regular member of Eta Kappa Nu, the standard initiation ritual was not used. Instead the Executive Council made up of Joanne Waite, President, Alan Lefkow, Vice President and Paul Hudson, Executive Secretary, gave short inspirational talks.

Donald Christiansen is a staff director of The Institute of Electrical and Electronics Engineers and editor and publisher of *IEEE Spectrum*. His engineering experience was gained at Philco Corporation and CBS Electronics. In 1961 he became solid-state editor for *Electronic Design* and later, at McGraw-Hill, was editor-in-chief of *Electronics*. He joned the staff of IEEE in 1971.

Mr. Christiansen was elected to HKN as an undergraduate at Cornell University, where he earned his B.E.E. in 1950. He is a member of the HKN Outstanding Young Electrical Engineer Award Organization Committee, and served as chairperson of that committee from 1975 to 1979.

He is the author of numerous articles in the field of electronic devices and integrated circuits, and is the associate editor of the McGraw-Hill *Electronics Engineers' Handbook, Second Edition*.

He is a member of the New York Academy of Sciences, the Society for the History of Technology, the Franklin Institute, the Antique Wireless Association, Mu Sigma Tau, and Sigma Delta Chi. He is also a registered professional engineer, and a member of the Union Internationale de la Presse Radiotechnique et Electronique, the National Press Club, the Cornell Society of Engineers, and the Cornell Club.

In 1980, he was presented the Triennial Culture Award of the Flanders Academy of Arts, Science, and Literature, along with a medal from the Netherlands Minister of Culture.

Mr. Christiansen was elected a Fellow of IEEE in 1980.

Donald Christiansen

Distinguished Service Award...

Anthony Gabrielle

The thirteenth Distinguished Service Award was presented to Brother Anthony Gabrielle at the Award Dinner in the Marriott Lincolnshire Resort, Lincolnshire, Illinois, on August 3rd, 1985, in reward for his many years of important service to the Association. The award is presented not more often than once a year.

Tony Gabrielle has enjoyed a career in the electric power industry since graduating from M.I.T. in 1950, with both Bachelor of Science and Master of Science degrees in Electrical Engineering. In 1960, he was awarded an Alfred P. Sloan fellowship to study Industrial Management at M.I.T. for one year and, subsequently, earned a Masters degree in this field. His career includes managerial roles in both the System Planning and System Operation departments of American Electric Power Company in New York City prior to heading up that company's computer operations.

In 1980, he was made an officer of Gulf States Utilities as Vice President-Computer Applications and assumed the responsibility of the development of the economic, technical and operational approaches to integrating computers with the corporate processes. This covers areas of control computers, engineering and business systems.

He presently serves on the Engineering Department Advisory Council at Lamar University, on the United Way Board of Directors in Beaumont, Texas, as an arbitrator for the Better Business Bureau, and on the Business Committee For The Arts Board of Directors.

Relative to Eta Kappa Nu, his service includes:

Vice President New York Alumni Chapter—1961
President New York Alumni Chapter —1962
National Board of Directors —1965-1966
National Vice President —1969-1970
National President —1970-1971

Outstanding Chapter Awards Committee for many years.

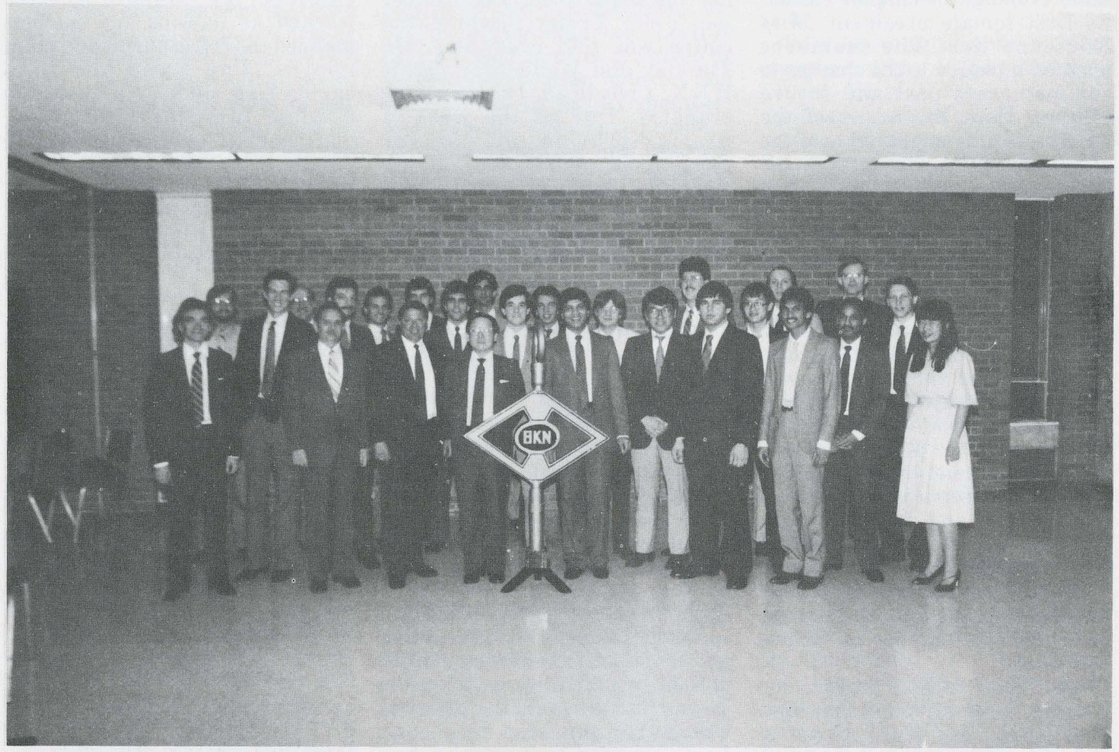
Outstanding Young Electrical Engineer Awards Committee for many years and presently solicits nominations from the entire country.

He installed and visited many chapters over the years.

Anthony Gabrielle with his lovely wife Eve, receiving his Distinguished Service Award at the Award Dinner in the Marriott Lincolnshire Resort.

Eve is holding a ceramic figurine that was presented to her by Eta Kappa Nu.

The Award Dinner was held on August 3rd, 1985.



Gamma Kappa Chapter—N.J.I.T.

GAMMA KAPPA CHAPTER, New Jersey Institute of Technology—The chapter had its best and most active year to date. Our increased participation in campus activity created a new awareness of the chapter on campus. We started with a small and inexperienced number of members but nevertheless managed to carry out meaningful activities.

The year was highlighted by the success of our two biggest programs. The first was a *Hewlett Packard* calculator sale which provided both students and faculty with an opportunity to purchase these useful and powerful engineering aids, and also a means of raising funds for the chapter. The sales far exceeded our expectations and we hope this program will be continued in the future.

The other program was an *Intel* microprocessor kit sale. The kits were purchased from *Intel* and resold to seniors and the student body as a whole. This was intended to encourage seniors to incorporate microprocessors in their projects and to have these components available to them.

With the funds raised from these activities the chapter was able to co-sponsor a 'get acquainted' luncheon with recruiting personnel from the *Texas Instruments Corp.* This wa open to the student body in general. Here students were able to obtain information about employment opportunities at *TI* and to submit resumes. A book drive was also initiated to buy or have companies donate component data books to the chapter in an effort to keep our small library current. Lastly we organized a field trip to RCA, the Semiconductor division in Somerville, NJ, to view their manufacturing facilities.

Apart from the tutoring services which we provide, we were also active in the college's recruiting program. Our members volunteer to visit high schools in the area to speak to prospective freshmen as student representatives. We participated in the "Dial-A-Freshman" program which allowed incoming freshmen to speak to upper classmen about any aspect of life at NJIT. The chapter also provided manpower at the college's Octobertech (open house) day by conducting tours and manning display booths.

Twenty new members were inducted into the chapter this year and our annual initiation banquet was held at the Cameo. At our election of officers, held on the

same evening, the chapter elected its first female president, Miss Adrienne Zoe. The members donated a plaque to the chapter to commemorate past and future officers. Here the names of the officers will be engraved onto the plaque and will be displayed in the chapter office. *by Terrence Jackson*

THETA PSI CHAPTER, University of Nevada, Reno—On April 12, 1985, our chapter held its annual spring banquet for members, faculty and their guests. Following the dinner, fifteen new members were initiated. Also, our chapter presented its first Faculty Recognition Award to Dr. Mehdi Etezadi-Amoli. This award is given for outstanding contributions to the Electrical Engineering Department and for exhibiting interest in the scholastic and personal achievements of students. A fifty percent majority vote of the membership is required in order for a faculty member to receive this award.

As a fund raising project, our chapter printed, published and distributed resume⅛ booklets to sixty-five companies nationwide. All electrical engineering seniors and graduate students were eligible to include their resume⅛s. Increased university-industry interaction was an important benefit obtained by distributing these booklets.

New officers were recently elected. As president, Frank Lawrence succeeds Craig Pinneo; as vice-president, Steve Armstrong succeeds Eric Cords; and as secretary/treasurer, Brian Costello succeeds Ann Elliott. Brian Costello was also selected as our outstanding junior electrical engineering student nominee for the National Awards. *by Ann Elliott*

PSI CHAPTER, University of Texas at Austin—The PSI chapter at the University of Texas at Austin has had a very exciting fall semester. Incorporating many academic, community, and social activities, the chapter has accomplished all of its goals.

The chapter continued providing services to the students and faculty of the Electrical Engineering Department. Donuts were sold every Friday morning and coffee was sold every day. On Tuesday and Wednesday nights HKN provided tutoring to students. During the week of preregistration, the chapter preadvised nearly half of the electrical engineering students. Also, several HKN members volunteered time to work in the IEEE Parts Bin to help keep it open as much as possible.

The chapter organized several committees this semester to provide services to the E.E. Department as well as the community. an orientation committee filled a showcase with information aimed at the fundamental needs of incoming freshmen. The HKN library has grown tremendously. Another bookcase was acquired and filled to capacity with textbooks donated by the members and professors. Also, several large hi-tech companies such as Motorola, Intel, and SGS donated a large quantity of their respective data books. The Texas Instruments Personal Computer donated by Texas Instruments last spring has proven to be a useful asset. A computer committee was organized to keep track of all actives, pledges, and books. Pertinent information such as names, addresses, and telephone numbers of the numbers as well as titles and authors of the library books were stored on floppy discs. A data base was written to provide easy insertion and retrieval of this information.

The locker committee was successful in acquiring 162 lockers from the Business School. A major renovation is in process at the Business School and their generous donation has doubled the number of lockers for student use.

A food drive was initiated by the community service community to help feed Austin's needy on Thanksgiving. Approximately 250 pounds of canned goods were donated by HKN members and taken to the Capital Area Food Bank of Texas, Inc.

Several HKN actives and pledges worked at the Engineering Expo, run by the Student Engineering Council. Actives worked as liaisons and pledges manned the refreshment and main booths. The Expo provided engineering students a chance to become familiar with many engineering companies and to speak with recruiters. Also, several HKN actives assisted Pi Sigma Pi, a minority engineering society, in giving tours of the electrical engineering building.

This fall's initiation saw 37 pledges inducted into HKN. The entire pledge class was successful in fulfilling all of their requirements with several pledges doing more than was required. Curtis Genz was elected most active pledge. This semester's most outstanding active was Mark Lau.

The semester's fireside, held at Dr. E. P. Hamilton's house, was a great success as fajitas and other "delectable goodies" were served. Dr. W. Mac Grady hosted the smoker for which nearly all of the actives and pledges attended as well as several faculty members.

The chapter's banquet was held at the Marriot Hotel this fall. Approximately 100 actives, pledges, and faculty members attended. The guest speaker was Dr. Russel E. Lueg, Chairman of the Electrical Engineering Department at the University of Alabama and previous national president. *by Jonathan Harris*

THETA TAU CHAPTER, University of Michigan-Dearborn—Early in the semester we put on a hall party which did well considering we were in attention competition with a Tigers' World Series game. Rented TV's proved to be valuable and feasible for this occasion.

A long-term money-making project was initialized. We are now selling computer disks for the Mackintosh and 5¼" floppy disks. All members were interested and optimistic with this idea.

The electees initiation this semester was to proctor the Mackintosh lab at UM-D. Because of the shortage of funds to pay people, the lab was able to be open more from this help. It worked so well we just formed a Mac subcommittee for proctoring with the leader being Big Mac.

As was done in the past our chapter provided volunteer help at the power house of the Henry Ford Estate. Saturday volunteers helped in numerous ways to put this amazing power house back on the operating track. We feel the power house is such a good educational project that the suggestion for a separate subcommittee for the power house is being considered. *by Mike Lindlbauer*

GAMMA BETA CHAPTER, Northeastern University—The Gamma Beta Chapter of Eta Kappa Nu inducted thirty-four undergraduate students into its chapter. On that same evening the Fifteenth Annual Engineer's Spring Banquet was held at the Boston Museum of Science. The banquet, which included a cocktail hour, an open tour of the museum, a delicious sit down dinner, an awards ceremony, and dancing, was once again a great success. At this year's banquet the Gamma Beta Chapter presented two awards; the first annual Morton Loewenthal Award for the outstanding senior electrical engineering student was presented to Theodore Letavic and the Lawrence F. Cleveland Award for the outstanding junior electrical engineering student was presented to Mark Bordogna. It was an honor to have Professor Cleveland on hand to personally present this award to its recipient.

The Spring Work Day consisted of yardwork at both St. Monica's Nursing Home in Roxbury and The Boston Home on Dorchester Ave. The tutoring program is still very active and is scheduled to continue during the summer quarter. The Chapter is looking forward to celebrating Northeastern's College of Engineering's 75th Anniversary during the 1984-85 school calendar. It is also the 75th anniversary of our university's Cooperative Education Program. The official dedication of the new Engineering Building on campus is scheduled for the Fall of 1984.

The new officers are looking forward to a very productive and enjoyable year to come. The chapter plans to help Professor Elizabeth Ames in organizing her weekly Electromagnetic Lecture Series. These lectures are given by guest speakers from industry and are open to all faculty members and students. They have proven to be very interesting and informative and offer us all the opportunity to be exposed to some of the latest research being done in the electromagnetic field. *by John Sangermano*

Dr. Donald S. Pearson, Zeta Chapter is married and has moved from Arizona to 1665 Berkshire Ave., Winter Park, Florida, 32789. Would appreciate hearing from friends.

GAMMA THETA CHAPTER, University of Missouri-Rolla—The Gamma Theta Chapter of Eta Kappa Nu flourished the fall semester of 1984 with numerous special events and regular activities.

We awarded scholarships to UMR EE students Margaret Ann Murphy and Kay Helen Koester for their scholastic excellence and again sponsored weekly help sessions for the fundamental electrical engineering courses. For those students thinking beyond their present courses, the HKN Career Day featured sixteen companies and drew several hundred students to talk with employment representatives. Within the EE department HKN members sold our chapter sponsored lab insurance with a record number of students taking advantage of the service. And also along the theme of protection, our chapter By-Laws underwent severe study resulting in their much needed updating.

Thirty new members were initiated into our chapter. As part of their initiation they were required to perform some form of service to the school, department or community. These services ranged from being the lighting technicians at the Miss Phelps County Pageant to doing maintenance work for the EE department.

Possibly our chapter's most enjoyed activity is the sponsoring of the HKN Hobby Club. 132 student members made use of a wide variety of laboratory equipment and reference materials for their own puttering and experimentation. HKN members staff the Hobby Club, which sells electrical components and kits for much reduced prices. "Get started" projects sold included an 80 LED audio spectrum analyzer, a digital capacitance meter, a variable bi-polar power supply, and an audio frequency generator. The Hobby Club gives members practical "hands on" experience that is quite often not found in the classroom. *by Charles Popeck*

BETA EPSILON CHAPTER, University of Michigan—This year's calendar of events included speakers from various industries as well as several professors from the University.

In addition to attending the biweekly meetings, HKN initiates join with Tau Beta Pi initiates in tutoring undergraduate EE and CS students. Other activities include creating a data base on the College's Computer Aided Engineering Network of job descriptions relevant to EE and CS students, maintaining a study lounge for student use, and representing HKN in Engineering Council and Michigan Student Assembly meetings.

Throughout the year, HKN's major fund-raiser is selling coffee, doughnuts, and floppy disks.

HKN provides students and faculty the opportunity to meet outside the classroom by hosting a Student-Faculty "Get-together". New this year was a Student-Faculty Wine and Cheese Party that was co-sponsored by IEEE. Another favorite social event is the Friday Afternoon Happy Hour where actives and initiates share some drinks and relax.

Each term HKN welcomes its new members with an initiation ceremony and a banquet at which time the Outstanding Initiate and Outstanding Active awards are presented. *by Lynn Piecuch*

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EPSILON RHO CHAPTER, Tennessee Technological University—The Epsilon Rho Chapter of Eta Kappa Nu at Tennessee Technological University in Cookeville, Tennessee, has established a new fund for undergraduate electrical engineering students. This year, based on a decison by a committee of faculty members and students alike, a cash award will be given to an outstanding EE student. In years to come cash awards will be given according to the highest ranking research proposals submitted by undergraduate students. These awards will be given in conjunction with the two undergraduate research classes offered here at Tech. In this way, students who are serious about doing research can obtain funding for their work as well as six hours of credit.

Over $1500 has already been raised from among faculty and students in the EE department. The chapter is currently in the process of asking alumni of Eta Kappa Nu and the Tennessee Tech EE department for additional donations. If you wish to donate to the fund or find out more information about the project, write:

Eta Kappa Nu
Electrical Engineering Department
Box 5004, Tennessee Technological University
Cookeville, Tennessee 38505

Please make checks payable to "Eta Kappa Nu Scholarship Fund". *by Denny Sisson*

OMICRON CHAPTER, University of Minnesota—The Omicron Chapter of Eta Kappa Nu held its fall initiation and 30 undergraduate students were inducted into our brotherhood. An initiation party was held at an EE faculty members' house. Our annual Career Fair and Banquet was held on November 2. Twenty-three companies participate in the Career Fair and 19 companies attended the Banquet that evening in which the Chairman of the Minnesota High Technology Council spoke. Students from all engineering disciplines attended.

The members of HKN, in cooperation with the EE faculty, assembled a 5000 level course guide, which describes the senior level courses allowing EE students to choose courses that will interest them.

Chapter activities Winter quarter have been ski trips to local ski areas, sponsoring lectures and presentations, by engineers of local companies, on EE topics, and a movie and pizza night.

Events planned for Spring quarter include our annual Spring Fling in May, which is an outdoor barbecue for EE students and faculty with softball, volleyball and other outdoors activities. In April, we will have the election of officers for the coming year and spring initiation of new members. To finish off the year, HKN will sponsor one of the events, during the Institute of Technology Week. *by David Duebner*

DELTA EPSILON CHAPTER, Ohio University—The Delta Epsilon Chapter's activities during the Winter Quarter were as follows:

1. Our annual Electrical Engineering Dialogue was held, in which faculty members respond to pre-submitted, as well as spontaneous, questions and comments from the students regarding any phase of the Electrical Engineering department.

2. During National Engineers Week, HKN members helped organize a public presentation given by each engineering department on their current research, and conducted a tour of the Electrical and Computer Engineering Department for southeastern Ohio high school students participating in a test competition in various engineering related fields.

3. A Bruce Lee movie was shown three times a night over the course of three nights as a fund-raising activity.

In addition to this past winter's functions, several activities are planned for the Spring Quarter:

A senior lab seminar will be held to provide juniors with helpful information about satisfying their senior lab project requirements.

Finally, on the recreational side, HKN members will participate in the annual EE picnic and softball game. *by Kenneth Pierce*