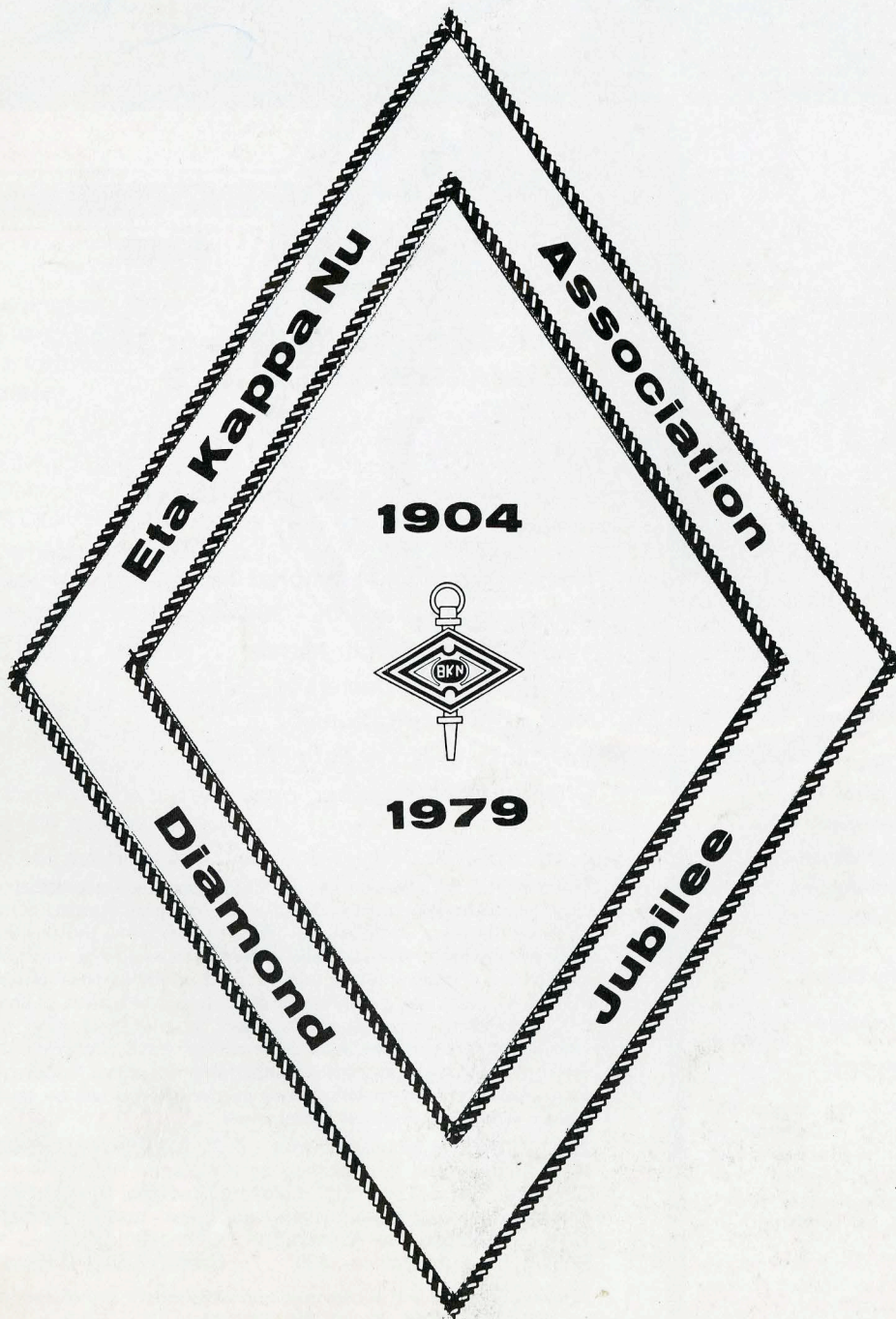


THE BRIDGE

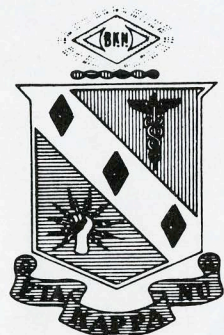
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Editor and Business Manager
Paul K. Hudson

Contributing Editors

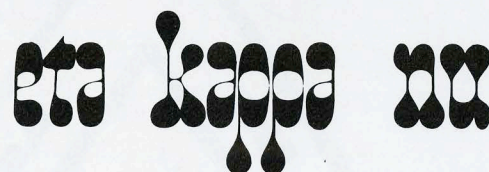
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Winston Kock
Marcia Peterman
Bert Sheffield
Jack Pullen
Leon Zelby

Photography Editor

Howard Sheppard

OUR COVER

On October 28, 1979, Eta Kappa Nu became 75 years old. In recognition of this important anniversary we are pleased to present a special historical supplement starting on page 6. Additional material will be presented in future issues.



Electrical Engineering Honor Society
February 1980, Vol. 76, No. 2

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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.

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Carl T. Koerner

Carl T. Koerner

Perpetual Memorial Trust



Edith Ann Koerner

*"Oh perfect love,
All human thought transcending."*

A Perpetual Memorial Trust has been established within the Eta Kappa Nu Association in honor of Carl T. Koerner who passed away last year. The Trust was established by his wife, Edith Ann Koerner, with a gift of six thousand dollars. Additional Gifts of one thousand dollars each were received from Lloyd F. Hunt, Helen K. Gahlen and Fritz Koerner. Gifts of one hundred dollars each were received from Marcus Dodson and Eugene Mueser. Irma Hanson gave one hundred and fifty dollars and Joanne Waite gave thirty. The Chicago Alumni Chapter gave four hundred and forty dollars.

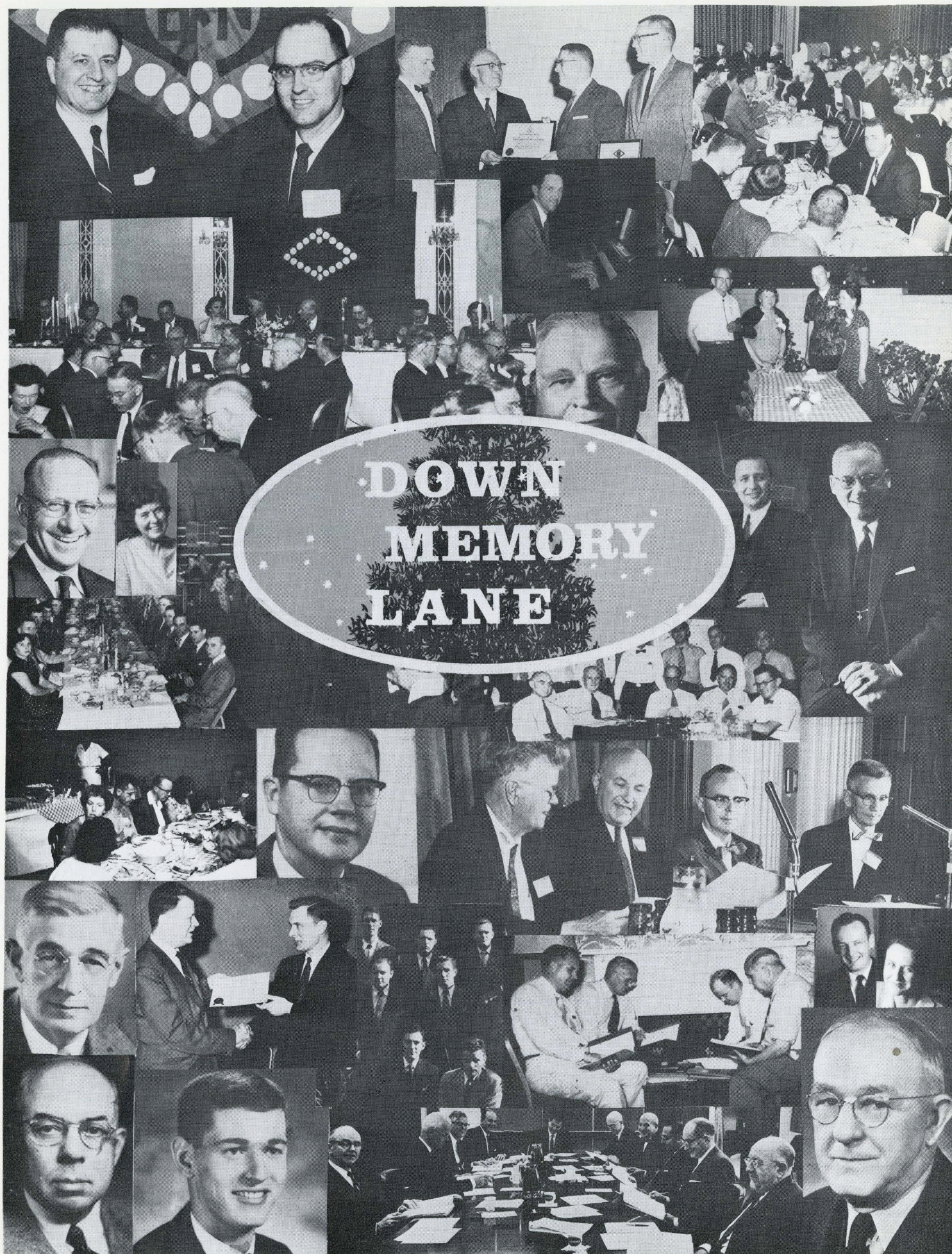
Carl Koerner was very active in Eta Kappa Nu for many years. He served as President of the Los Angeles Alumni Chapter, National Director, National President and Assistant Editor of *Bridge*. He was the founder of the Outstanding Electrical

Engineering Student Award Program that is conducted by the Los Angeles Alumni Chapter.

The National Board of Directors, in consultation with Mrs. Koerner, decided that the proceeds of the Trust will be used to promote the Student Award Program that President Koerner founded. The winner each year will be presented with a scholarship-gift in the amount of five hundred dollars.

Brother Koerner had a very distinguished and full career as an engineer, professor, author, editor and consultant. He was employed by the Pacific Telephone Company for 35 years as Staff Engineer, Supervisor, Expert Witness, and other key positions. As a Consulting Engineer his most recent work was planning the complete communications systems for a large new city to be built in Saudi Arabia.

CHANGING OF THE GUARD



The above photograph was taken at the Annual Meeting of the Corporation on June 21, 1958 in the Holiday Inn Motel, Harrisburg, Pa. At this meeting the management of the National Headquarters operation changed hands. Left to right - Roger Nolte, Director; Alton B. Zerby (now deceased) who retired as Executive Secretary; Carl T. Koerner (now

deceased) Junior Past President; Larry Dwon, President; Paul K. Hudson, the new Executive Secretary; Joseph Tarboux (now deceased) Vice President; C. Holmes MacDonald (now deceased) Director; John Craig, Director; George Harness, Director.



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1905-06 MAURICE L. CARR
1906-07 EDMUND B. WHEELER
1907-08 CHARLES E. ARMSTRONG
1908-09 A. F. McKEE
1909-10 CHARLES C. CARR
1910-11 CLARENCE T. EVANS
1911-12 BURT T. ANDERSON
1912-13 LESLIE H. HARRIS
1913-14 ALBERT H. HEITMANN
1914-15 ALTON B. ZERBY
1915-16 ROSCOE H. WEBB
1916-17 BERT E. MILLER
1917-18 HENRY S. COCKLIN
1918-19 FRANCIS A. COFFIN
1919-20 L. PATON MACGILVARY
1920-21 BURT T. ANDERSON
1921-22 JOHN M. SPANGLER
1922-23 DONALD G. EVANS
1923-24 JOSEPH B. KELLY
1924-25 GEORGE P. SAWYER
1925-26 AXEL A. HOFGRN
1926-27 FORREST E. BROOKS
1927-28 EVERETT S. LEE
1928-29 JOHN W. WEIGT
1929-30 MAYNE S. MASON
1930-31 GEORGE H. KELLEY
1931-32 EDWARD F. WATSON
1932-33 JOHN M. NEWMAN
1933-34 ROGER I. WILKINSON
1934-35 NELSON L. BEST
1935-37 CLIFFORD A. FAUST
1937-38 A. MORRIS BUCK
1938-39 LELAND A. SPANGLER
1939-40 BENJAMIN F. LEWIS
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1942-43 FRED E. HARRELL
1943-44 CHARLES B. HOFFMAN
1944-45 WINSTON E. KOCK
1945-46 OWEN H. LOYNES
1946-47 RALPH W. FOUSE
1947-48 NELSON S. HIBSHMAN
1948-49 THOMAS W. WILLIAMS
1949-50 ROBIN BEACH
1950-51 FRANK E. SANFORD
1951-52 OVID W. ESHBACH
1952-53 EDWIN B. KURTZ
1953-54 ERIC T. B. GROSS
1954-55 J. E. HOBSON
1955-56 S. REID WARREN
1956-57 JOHN RYDER
1957-58 CARL KOERNER
1958-59 LARRY DWON
1959-61 ALBRECHT NAETER
1961-62 JOHN CRAIG
1962-63 JOHN LYON
1963-64 JOHN LAGERSTROM
1964-65 RICHARD KOOPMAN
1965-66 HOWARD SHEPPARD

1966-67 CLYDE HYDE
1967-68 WILLIAM SMITH
1968-69 JOHN FARLEY
1969-70 JOHN HANCOCK
1970-71 ANTHONY GABRIELLE
1971-72 LLOYD CHERRY
1972-73 F. CARLIN WEIMER
1973-74 WILLIAM E. MURRAY
1974-75 WILLIAM A. KLOS
1975-76 CHALMERS BUTLER
1976-77 EARL D. EYMAN
1977-78 MARCUS D. DODSON
1978-79 ALBERT HAUSER
1979-80 ALAN STODINGER

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1911-12 L. H. HARRIS
1912-13 A. H. HEITMAN
1913-18 L. H. HARRIS
1918-28 A. B. ZERBY

NATIONAL EXECUTIVE SECRETARY

1928-31 J. A. UMHOEFER
1931-35 L. A. SPANGLER
1935-58 A. B. ZERBY
1958- P. K. HUDSON



THE ALTON B. ZERBY AWARD

To the Most Outstanding Electrical
Engineering Student in the U.S.

- 1965 CARL A. COOPER
University of Southern California
- 1966 THOMAS L. THOMAS
Ohio State University
- 1967 DOUGLAS F. JOHNSTONE
Purdue University
- 1968 DONALD A. HANSON
University of Illinois
- 1969 THOMAS L. NIEMEYER
Ohio State University
- 1970 ROBERT W. ALFORD
University of Texas - Arlington
- 1971 ALAN M. USAS
Princeton University
- 1972 NOEL H. RUNYAN
University of New Mexico
- 1973 JOHN B. GORDON
University of Texas - Austin
- 1974 STEVEN BRAMMER
University of Texas - Arlington
- 1975 WILLIAM P. MUMFORD III
Oregon State University
- 1976 ALLEN D. ELSTER
Vanderbilt University
- 1977 DAVID D. WELTER
University of New Mexico
- 1978 DOUGLAS R. KRAUL
Georgia Institute of Technology

- 1943 — N. I. HALL
1944 — R. W. PORTER
1945 — J. M. WALLACE
1946 — E. M. WILLIAMS
1947 — R. R. HOUGH
1948 — A. M. ZAREM
1949 — R. C. CHEEK
1950 — D. P. CAMPBELL
1951 — L. G. GITZENDANNER
1952 — J. V. N. GRANGER
1953 — P. A. ABETTI
1954 — R. F. METTLER
1955 — W. E. CHOPE
1956 — J. J. BARUCH
1957 — R. P. CRAGO
1958 — M. R. CURRIE
1959 — E. A. SACK, JR.
1960 — K. H. OLSEN
1961 — C. J. BALDWIN, JR.
1962 — J. T. DUANE
1963 — D. C. FORSTER
1964 — W. L. SHEVEL, JR.
1965 — E. M. DAVIS, JR.
1966 — M. H. LEWIN
1967 — R. F. ELFANT
1968 — G. H. HEILMEIER
1969 — R. E. LARSON
1970 — J. B. FARISON
1971 — ELWYN R. BERLEKAMP
1972 — GEORGE P. SHURAYM
1973 — JOHN T. LaMACCHIA
1974 — HAROLD J. HOVEL
1975 — DAVID J. MELVOLD
1976 — CLINTON S. HARTMAN
1977 — JOHN G. N. HENDERSON
1978 — RICHARD E. BIRNEY

THE C. HOLMES MacDONALD AWARD

To an Outstanding Young
Electrical Engineering Professor

- 1974 JAMES A. HEINEN
Marquette University
- 1975 LLOYD J. GRIFFITHS
University of Colorado
- 1976 BRUCE A. EISENSTEIN
Drexel University
- 1977 JOHN E. FAGAN
University of Oklahoma
- 1978 RUSSELL NEIDERJOHN
Marquette University

THE OUTSTANDING YOUNG ELECTRICAL ENGINEER AWARD

- 1936 — F. M. STARR
1937 — C. G. SUITS
1938 — W. E. KOCK
1939 — L. A. MEACHAM
1940 — J. E. HOBSON
1941 — C. BRUNETTI
1942 — J. R. PIERCE



Luncheon at the 1959 Convention in Lincoln, Nebraska

DISTINGUISHED SERVICE AWARD

Eta Kappa Nu's highest award
for service to the Association

ALTON B. ZERBY, April 15, 1972

ROGER I. WILKINSON, March 26, 1973

CLIFFORD A. FAUST, December 8, 1973

HOLMES MacDONALD, March 1, 1974

CARL T. KOERNER, Nov. 22, 1975

LARRY DWON, January 25, 1976

EDWIN B. KURTZ, August 5, 1977

EVERETT LEE, May 22, 1978

LELAND SPANGLER, May 22, 1978

PAUL K. HUDSON, August 4, 1978

WILLIAM T. BURNETT, Nov. 17, 1978

Outstanding Chapter Award

1932-33	Gamma, Ohio State University
1933-34	Beta, Purdue University
1934-35	Pi, Oregon State College
1935-36	Kappa, Cornell University
1936-37	Omega, Oklahoma State University
1937-38	Epsilon, Pennsylvania State University
1938-39	Sigma, Carnegie Institute Technology
1939-40	Delta, Illinois Institute Technology
1940-41	Beta Zeta, New York University
1941-42	Kappa, Cornell University
1947-48	Delta, Illinois Institute Technology
1948-49	Delta, Illinois Institute Technology
1949-50	Beta-Pi, City College of New York
1950-51	Beta, Purdue University
1951-52	Beta-Alpha, Drexel Institute Technology
1952-53	Beta-Alpha, Drexel Institute Technology
1953-54	Gamma-Theta, Missouri School of Mines & Metallurgy
1954-55	Gamma-Theta, Missouri School of Mines & Metallurgy
1955-56	Upsilon, University of Southern California
1956-57	Beta-Nu, Rensselaer Polytechnic Institute
1957-58	Gamma-Theta, Missouri School of Mines & Metallurgy
1958-59	Gamma-Theta, Missouri School of Mines & Metallurgy
1959-60	Gamma-Theta, Missouri School of Mines & Metallurgy
1960-61	Beta-Epsilon, University of Michigan
1961-62	Gamma-Theta, Missouri School of Mines & Metallurgy
1962-63	Beta-Pi, City College of New York
1962-63	Beta-Pi, City College of New York
1963-64	No award
1964-65	Rho, University of Colorado
1965-66	Beta-Pi, City College of New York
1966-67	Beta-Pi, City College of New York
1967-68	Gamma Xi, University of Maryland
1968-69	Beta Alpha, Drexel University
1969-70	Gamma Gamma, Clarkson College
1970-71	Gamma Xi, University of Maryland
1971-72	Gamma Xi, University of Maryland
1972-73	Omega, Oklahoma State University
1973-74	Gamma Chi, New Mexico State University
1974-75	Gamma Chi, New Mexico State University
1975-76	Gamma Chi, New Mexico State University
1976-77	Gamma Theta, University of Missouri-Rolla
1977-78	Beta, Purdue University



Delegates at the Convention of 1923 in Madison, Wisconsin

EMINENT MEMBERS

VANNEVAR BUSH — Jan. 30, 1950
 ROYAL W. SORENSON — Jan. 30, 1950
 VLADIMIR K. ZWORYKIN — Jan. 30, 1950
 FREDERICK E. TERMAN — Jan. 22, 1951
 JOSEPH SLEPIAN — Jan. 22, 1951
 KARL B. McEACHRON — Jan. 21, 1952
 WILLIAM H. TIMBIE — Jan. 21, 1952
 SOREN H. MORTENSEN — Jan. 21, 1952
 LEE DeFOREST — May 2, 1952
 EDWARD C. MOLINA — Jan. 19, 1953
 HAROLD PENDER — Jan. 19, 1953
 CHARLES A. POWELL — Jan. 19, 1953
 PHILIP SPORN — Jan. 19, 1953
 WALTER R. G. BAKER — Jan. 18, 1954
 MERVIN J. KELLY — Jan. 18, 1954
 REINHOLD RUDENBERG — Jan. 18, 1954
 JAMES B. BLACK — April 20, 1954
 ANDREY A. POTTER — Oct. 16, 1954
 EVERETT S. LEE — Oct. 16, 1954
 ELLERY B. PAINE — Oct. 16, 1954
 HAROLD S. OSBORNE — Jan. 31, 1955
 ERNST ALEXANDERSON — Jan. 31, 1955
 HARRY A. WINNE — Jan. 31, 1955
 ALFRED N. GOLDSMITH — Jan. 31, 1955
 HAROLD H. BEVERAGE — Oct. 5, 1955
 LESLIE N. McCLELLAN — Oct. 5, 1955
 HARRY NYQUIST — Jan. 30, 1956
 WILLIAM D. COOLIDGE — Jan. 30, 1956
 LEON N. BRILLOUIN — Jan. 30, 1956
 J. HOWARD DELLINGER — Oct. 3, 1956
 DONALD A. QUARLES — Oct. 14, 1958
 CLIFFORD F. HOOD — Oct. 30, 1958
 PHILIP L. ALGER — April 2, 1960
 CHAUNCEY STARR — Oct. 29, 1960
 ARTHUR D. MOORE — Oct. 10, 1961
 JOHN L. BURNS — Nov. 14, 1961
 JAMES HILLIER — Nov. 16, 1961
 CHARLES F. WAGNER — Nov. 20, 1961
 LLOYD V. BERKNER — March 29, 1962
 JOHN BARDEEN — March 29, 1962
 JEROME B. WIESNER — Oct. 10, 1962
 ERNST WEBER — Nov. 5, 1962
 GORDON S. BROWN — March 25, 1963
 WILLIAM L. EVERITT — Oct. 30, 1963
 LEE A. DuBRIDGE — Aug. 25, 1964
 JULIUS A. STRATTON — Nov. 5, 1964
 DONALD FINK — Nov. 4, 1965
 SIMON RAMO — Aug. 25, 1966
 WINSTON E. KOCK — Nov. 3, 1966
 GEORGE H. BROWN — Nov. 2, 1967
 WILLIAM PICKERING — Aug. 22, 1968
 HAROLD EDGERTON — Nov. 7, 1968
 PATRICK HAGGERTY — Aug. 20, 1969
 EMANUEL PIORE — Nov. 6, 1969
 WALKER LEE CISLER — March 19, 1972
 EDGAR L. KANOUSE — Aug. 17, 1973
 EDWARD C. JORDAN — April 24, 1974
 ERIC T. B. GROSS — April 6, 1975
 EDWARD A. ERDELYI — Aug. 4, 1978

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R. G. Bennetts, University of South-
 ampton, England.

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 — Warren T. Jessup.

MOVIE — J. E. Farley.

OUTSTANDING YOUNG ELEC-
 TRICAL ENGINEER AWARD
 James D'Arcy

OUTSTANDING STUDENT
 AWARD — Lawrence Hamilton.

OUTSTANDING PROFESSOR
 AWARD — John H. Spare

OUTSTANDING CHAPTER
 AWARD — Alan Lefkow.

PUBLICITY — Berthold Sheffield.

HISTORIAN — Larry Dwon

MERRY MOMENTS WITH MARCIA

Joe: "Is that all there is to the story?"
Joan: "I guess so. I've already told you more than I heard."

* * * *

Burlar: "The police are coming! Quick jump out the window!"
Accomplice: "But we're on the thirteenth floor."
Burglar: "Do as I say. This is no time to be superstitious."

* * * *

Patient: "My right foot hurts."
Doctor: "It's just old age."
Patient: "But my left foot is just as old. How come it doesn't hurt?"

* * * *

Life's briefest moment is the time between reading the sign on the freeway and realizing you just missed your exit.

* * * *

I've heard that switching to the metric system isn't a bad idea. If we can't lick inflation, at least let's mix up the figures.

* * * *

A careless jaywalker to policeman: "Sure I can read the 'Don't Walk' signs, but I always thought they were bus company ads."



The little boy and his parents were dinner guests at the home of a family friend. He was having some difficulty cutting the meat and was asked by the hostess if he needed help.
"Oh, no," he replied, without looking up from his plate. "We often have it this tough at home."

* * * *

A man walked into a restaurant in a strange town. The waiter came and asked him for his order. Feeling lonely, he replied, "Meat loaf and a kind word." When the waiter returned with the meat loaf, the man said, "Where's the good word?" The waiter put down the meat loaf and sighed, bent down and whispered, "Don't eat the meat loaf."

* * * *

A six-year-old ran up and down the supermarket aisles shouting frantically, "Marian, Marian."
Finally reunited with his mother, he was chided by her, "You shouldn't call me 'Marian,' I'm your mother, you know."
"I know," he replied, "but the store is full of mothers."

* * * *

Don't worry about avoiding temptation, as you grow older, it starts avoiding you.

* * * *

It was a Sunday afternoon and the guy had been watching football on TV, one game after another. Finally he fell asleep in the chair and slept there all night. When his wife arose in the morning, she was afraid he'd be late for work.
"Get up, dear," she said, "it's twenty to seven."
In an instant, he was fully awake. "In whose favor?" he shouted.

* * * *

"I want your driver's license," the officer said. "This is your library card."
"I know. I'm looking for my license," replied the driver. "I just thought you'd like something to read until I find it."

by **MARCIA PETERMAN**

Theta Kappa Chapter... California State Univ.—Fresno

Twenty students and four professionals have been inducted into membership in the Theta Kappa Chapter, newly chartered at California State University, Fresno.

Marc Dodson, immediate past president of the national society, conducted the ceremonies and presented the charter to Dr. James Matheny, dean of the CSUF School of Engineering. Dr. Joseph Plunkett, associate professor of engineering and already a member of the society, assisted in the proceedings.

Students from Fresno who were inducted included Fariborz Agahdel, Dante Chu, William Etcheverry, Saed Ghafouri, Man Bun Lau, Jesus Olivo, Dan Rowe, John Sinerchio, Robert Sharrah, Larry Shintaku, Russell Sohm, Douglas Urabe and Walter Wong.

Other students inducted were Patrick Correia and Calvin Masuda, both of Merced; Alan Cummins of Bakersfield; Celestino Gaeta of Clovis; Walter Grove of Dinuba; Kevin Von Hoffmann of Atwater; and Karen Kawate of Sanger.

Members of the CSUF engineering faculty who were inducted included Dr. Dennis Hagopian, Dr. Hans Puttgen, Dr. Irvin Kral and Samuel Liao.

Dr. Matheny said, "We are proud to join the leading engineering schools across the nation that have Eta Kappa Nu chapters and provide this coveted opportunity to

the electrical engineering students at CSUF. This marks one more milestone in the development of one of the finest engineering schools in California.

"At the present time," said Dr. Matheny, "our graduates are highly sought by the best industries in California and many enter the most prestigious graduate schools in the nation."

"One of the unique things about our engineering school is that we provide close interaction between the student and the professor and at the same time provide the program quality the student would get at the more exclusive private universities."

At the present time, the electrical engineering program at CSUF offers undergraduate opportunities with extensive laboratory facilities in power systems, solid state electronics, digital and control systems with hands-on computer experience, and communications, including microwave and laser techniques.

Dr. Matheny said the School currently is installing a solid state device laboratory in which the student can fabricate diodes, transistors and integrated circuits. He said, "This will provide one of the few opportunities in California for the student to work in a solid state device laboratory which is strongly oriented towards undergraduates."

Marcus Dodson, Junior Past President of Eta Kappa Nu, presents a new chapter charter to Dr. James Matheny, Dean of Engineering at California State-Fresno.



On the evening of Monday, April 23rd, one hundred and fifty members and guests gathered at the New York Sheraton Hotel for an Award Dinner in honor of the Outstanding Young Electrical Engineers of the year.

This year's winner was Mr. Richard E. Birney, Manager, New Systems Processors III, of the International Business Machines Corporation. His award was "For original contributions in computer architecture and technology, and for leadership in civic and community activities."

Richard E. Birney was born in Oklahoma City, Oklahoma, on February 8, 1949. He began his college career studying Electrical Engineering at Trinity University, later transferring to the University of Texas in order to help manage a family-run computer

programmers school in Austin. He subsequently entered into the computer service business, developing software packages for small businesses, contracting computer time from outside companies during the evening hours and continuing his studies during the day. This arrangement permitted him to continue to finance his education.

After receiving his Bachelor degree in Electrical Engineering from the University of Texas, Mr. Birney went on to acquire an advanced degree in computer science. In graduate school he excelled, finishing with a 4.0/4.0 grade average, and received his Masters of Science degree in May of 1973.

In June of 1973, he began his career at the IBM laboratory facility in Boca Raton, Florida. His first manager was Mr. M. I. Davis,

NEW YORK Award Dinner

Photos by Howard Sheppard

computer architect of the System/7. Soon, Mr. Birney became part of the architecture and processor development team for The Series/1 minicomputer. During the initial and subsequent product development he obtained 8 patents, published 13 Technical Disclosure Bulletins and made many presentations. As a result of this work, he has received three invention achievement awards, an outstanding innovation award, an invitation to two divisional achievement conferences and a corporate achievement conference from IBM.

Mr. Birney has also been very active on interdivisional architectural task groups working to define standards for future systems interconnect. He has also participated in interdivisional/architectural reviews of new systems undergoing development. Probably his most notable achievement is the leadership he has demonstrated in furthering the

recommendations of the task group mentioned above. In large measure this has resulted in the definition and funding of new products. Recently he was appointed manager of processor development for one of these products.

Honorable Mention was awarded to Mr. David W. McElroy, Manager, Dry Type Transformer, Engineering Section, Westinghouse Electric Corp. His award was for "Contributions in power apparatus and components design and application, and for leadership in professional activities and community affairs."

David McElroy was born on July 2, 1946 in San Antonio, Texas. In 1969 he received his BSEE from the University of Texas in Austin and a MA in Mathematics, after completing a five year Engineering Cooperative Degree Program. In 1971, he received an MSEE from Carnegie Mellon University.

Mr. McElroy began work at Westinghouse in 1969, as one of 23 new employees assigned to Westinghouse's Advanced Degree Program. While attending school, he worked full time at the Westinghouse Research and Development Center, where he became involved with the study of improved insulation systems and corona breakdown.

In the summer of 1971, Mr. McElroy was transferred to the Medium Power Transformer Division in Sharon, Penn., where he gained experience in both oil filled and dry type power transformers. As a result of his efforts, he was successful in identifying new materials and improved manufacturing methods, and was issued a patent on a new solid state instrument for direct measurement of transformer hottest spot temperature. He also developed an improved method for the elec-

trical design of transformer condenser bushings.

Mr. McElroy was then transferred for several years into a technical marketing assignment as a Power Systems District Engineer, during which time he received several Westinghouse awards for his work there. Finally in 1977, he returned to the Medium Power Transformer Division to become Engineering Manager of the Dry Type Power Transformer Section, where he is responsible for product development, design and field performance.

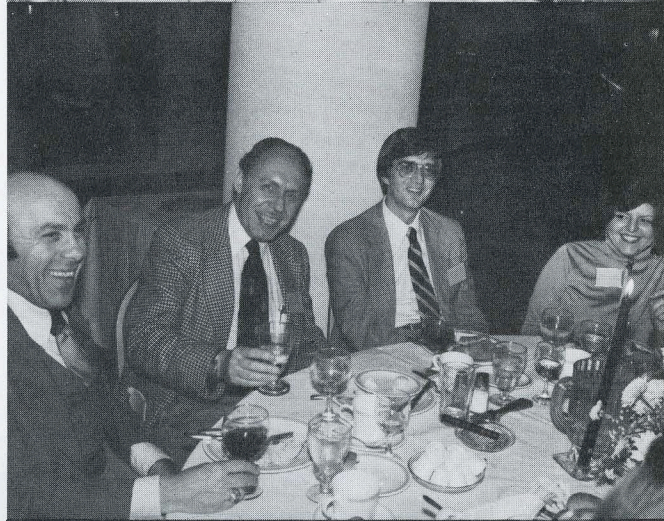
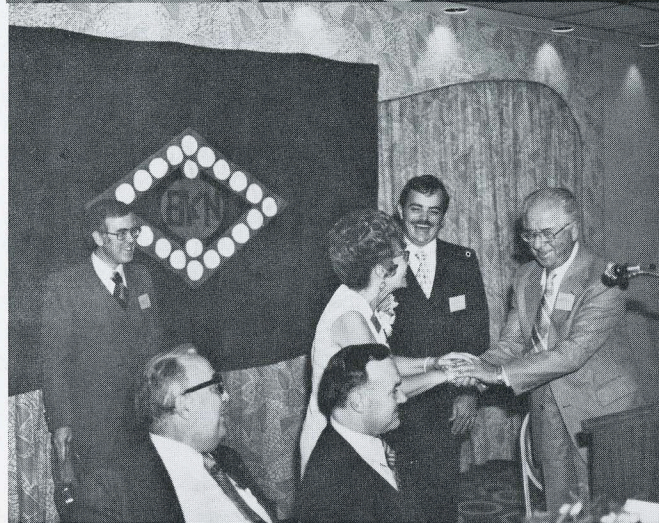
The Keynote Address was given by Dr. C. Lester Hoagan, Vice Chairman of the Board of Fairchild Camera and Instrument Corporation. He gave a very interesting and informative talk on the history and future prospects of electrical engineering research.

President Albert Hauser presents award to the Winner, Mr. Richard E. Birney.



President Albert Hauser presents award to the Honorable Mention, Mr. David W. McElroy





Polytechnic Institute of N.Y. at Farmingdale Theta Theta Chapter

By John Kowalski
Photos by Richard Vollkommer

On April 27, 1979 the Theta Theta chapter of the Farmingdale, Long Island campus of Polytechnic Institute of New York was installed by Mr. Berthold Sheffield, who represented the National Board. The first induction of new members into the chapter was also held at that time.

The Farmingdale campus was opened to undergraduate students in 1974. Up until this year, students who had shown the necessary academic and leadership qualities and who wished to join Eta Kappa Nu were inducted into the Zeta Sigma chapter of the Brooklyn

campus of the Polytechnic. That the Farmingdale campus is forty miles from the Brooklyn campus, and that complete EE undergraduate and graduate degree programs are available at both campuses meant that there is an isolation between the students of both campuses. Students rarely, if ever, have reason to visit the other campus.

Because of this separation of the two campuses, and the resulting divergence of interests and identities of them, the students of the Farmingdale campus who were inducted into the Brooklyn

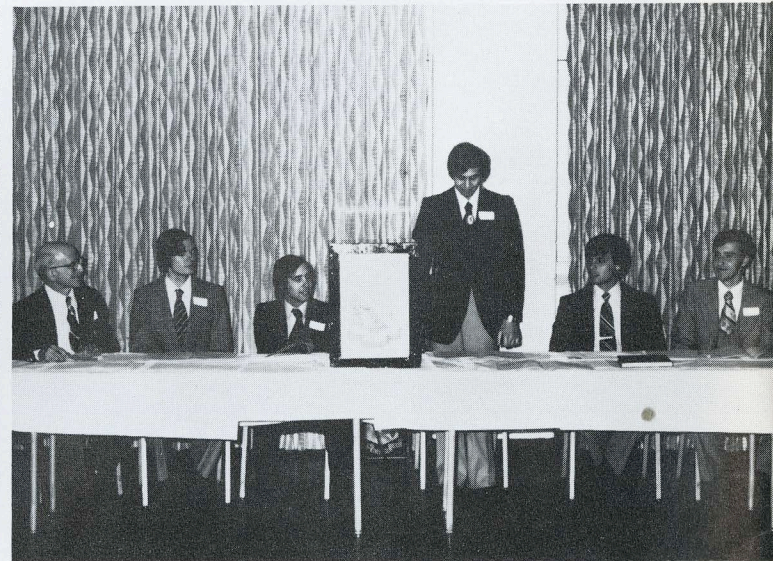
chapter last spring sought to have their own chapter established on Long Island.

The ceremony on the evening of April 27 brought our efforts to fruition. Professor Stanley Gross, faculty advisor, facilitated the establishment of the new organization on the campus. Mr. Sheffield provided many suggestions that helped to make the Theta Theta chapter's first induction ceremony meaningful to all involved. After the ceremony a dinner at Beefsteak Charlie's in Huntington, Long Island, N.Y. made the evening complete.

Standing, l to r: Paul Levin, Robert Difazio, Thomas Bundy, Thomas Kemp, Dieran Halasian, Colleen Kierman, Glen Juliano, Laurence Haber, Vrej Halasian. Seated: Cynthia Ruskowski, Craig Wallace, Lawrence Rubin, Alvin Newman.



L to R: Bert Sheffield, Installing Officer, Chapter Officers Thomas Fowler, John Kowalski, Thomas Marynowski, Bill Mordarski, Edward Rentsch. Richard Vollkommer, the President was busy taking the picture.



CHAPTER NEWS

OMEGA CHAPTER, Oklahoma State University — The spring semester for the Omega Chapter at Oklahoma State University was filled with activities not only of a service nature, but also of a social one. HKN members manned a Peer Advisement table for several days during the pre-enrollment period. Electrical engineering students were able to receive advice about the curriculum before they completed their enrollment for the upcoming fall semester.

Many hours were spent by several members on building an energy exhibit which was displayed during the annual Engineering Week observed at OSU. The members were awarded for their efforts when the HKN exhibit was chosen by a team of judges as a runner-up in the competition for the best exhibit. The exhibit competed with many others from organizations of all engineering disciplines.

HKN members had a good time participating in some recreational activities this spring. Some of the members formed a softball team and played in the intramural games. Also, the chapter organized a picnic and invited all the faculty and students in electrical engineering. Those who attended enjoyed the opportunity to socialize with the faculty and with their peers, and there was plenty of games and food for everyone.

This spring's new initiates began their activities with a Work Day, where they performed a variety of jobs outlined by the members. The activities concluded with a picnic, where the initiates served dinner to the members and provided entertainment afterward. The formal initiation ceremony was held in the banquet room of a local restaurant, with a buffet dinner being served before the ceremony. *by Dee Ann Hill*

GAMMA EPSILON CHAPTER, Rutgers University — This semester has been a successful one for the Gamma Epsilon Chapter of R.U., mainly due to the efforts of our progressive president Marianne Belok. We started out by planning an eventful semester at our first executive meeting on September 13.

Our first activity was a trip to Bell Labs in Murry Hill, N.J. Twenty five

students attended an impressive tour of the labs including fiber optics technology, computer graphics, bubble memories, and digital sound processing. On October 23, we organized a Career Night at which we had speakers from the Rutgers Career Development and Placement Service talk on career objectives, interviewing technique, and resume writing.

To aid the underclassmen in E.E. at R.U. in choosing their electives for the spring semester we organized a meeting at which the faculty described each elective and then any questions that students had could be answered. We also had a seminar at which underclassmen could ask the upperclassmen for advice in choosing their electives.

On November 28, we had a speaker from Intel Corp. talk on microprocessors, microcomputers, and the tremendous growth in the semiconductor industry due to large scale integration.

Our Fall Induction Ceremony held on December 1, and the following Induction Party were a tremendous success. Twenty six new members were inducted and several faculty members attended.

We concluded this semester's activities with a Christmas party held jointly with the Institute of Electrical and Electronic Engineers and the Society of Women Engineers. A Christmas tree was decorated to brighten the Engineering Building and a lot of Christmas cheer was felt by all.

by Charles T. Donovan

EPSILON THETA, California State University, Long Beach — The 1978 Fall semester was an extremely productive and rewarding one for Epsilon Theta. Our officers (Mike Stella, President; Valerie Herrman, Vice President; Bob Guthrie, Recording Secretary; Brad Dupree, Treasurer; and Gary Lynch, Bridge Corresponding Secretary) and members worked hard to improve our chapter and expand its activities.

As is our tradition, we again assembled and sold lab kits for the Engineering Electronics I Laboratory. This semester's sales contributed a record amount of money to our treasury to finance our projects.

Another traditional activity is the Engineering Picnic, in which our

Founding University

On the occasion of the 75th anniversary of the Founding of Eta Kappa Nu at the University of Illinois, the Electrical Engineering Department is pleased to announce the continued availability of Graduate Programs and financial aid.

Qualified students are encouraged to apply for graduate study toward the M.S. or Ph.D. degrees in electrical engineering. Research opportunities are available in every area of modern electrical engineering in one of the largest and most comprehensive departments in the world.

Admission requirements include a 4.25/5.00 grade point average. Financial aid in the form of teaching and research assistantships provide a stipend of \$4500 for 9 months or \$5500 for 11 months plus a tuition and fee waiver.

For additional information, write to Dr. G. W. Swenson, Jr., Head, Department of Electrical Engineering, 155 Electrical Engineering Building, University of Illinois, Urbana, Illinois 61801.

chapter participates along with the other student engineering organizations. Prior to this semester, the picnic was an honor society function, but was expanded to include all engineering students this time. The picnic was, as usual, a roaring success, with food, drink, games and conviviality making it a great time for all in attendance. Epsilon Theta again sponsored a softball game, this time between faculty and students (in the past, the competition was between members and pledges of the honor societies).

Our President made a significant contribution to student activism by almost single-handedly initiating the Eta Kappa Nu Participation Award. Competition for the award, which was open to all Eta Kappa Nu members except officers, was judged on the basis

of involvement in campus activities according to a point system established by our chapter's officers. The winner of the competition was Susan McCormack, who pledged this semester. The \$100 prize was presented to her at the Engineering Banquet. The contest was received with so much enthusiasm that the other student organizations are considering the institution of a unified competition next semester, with each group contributing to the prize or prizes.

The Banquet itself, which was held at the Balboa Pavilion in Newport Beach, was thoroughly enjoyable. We had the pleasure of announcing the eleven new members we initiated this semester, including two graduate students and two professors of Electrical Engineering at Cal State Long Beach. A delicious roast beef dinner, a romantic view of the harbor, and dancing to a great band (aptly named Night Construction) made the evening a memorable one for the 350 people who attended.

At our final meeting we elected our new officers for the Spring semester. We trust that they, with the active participation of all our members, will continue and expand Epsilon Theta's tradition of activism and service.

by Gary F. Lynch

DELTA XI, Air Force Institute — Dr. Peter S. Maybeck of the Air Force Institute of Technology School of Engineering, Dayton, Ohio, was presented a certificate of Honorable Mention in the C. Holmes MacDonald Distinguished Electrical Engineering Teacher award competition at a student body meeting. The presentation was made by Dr. Robert E. Fontanna, head of Department of Electrical Engineering, and Robert P. Davis, president of Delta-Xi chapter.

Dr. Maybeck was cited for his contributions to the techniques of Kalman Filtering, and his develop-

ment of Stochastic Estimation and Control courses at AFIT in addition to his highly effective teaching techniques. The Engineering School Student Council has continually selected Dr. Maybeck as an outstanding instructor for the past three years, based on student critiques. His activities also include participation and leadership in several community service organizations as well as dedicated professional involvement through societies, publications, and conferences.

DELTA MU, Villanova University — The Delta Mu Chapter is in the process of re-establishing itself as a professional organization at Villanova. In March 1978 new officers were elected as follows: Ara Ohanian, President; Zalpha Hashem, Vice President; Robert Miller, Rec. Secretary; Edward Brorein, Treasurer; Michael Monteiro, Cor. Secretary; Steve Shinnors, Ejc. Repres.

Many new activities have been initiated to serve HKN members and other EE students.

The chapter has recently acquired its own office in the engineering college. This will greatly aid HKN officers and members in planning activities. Coffee hours which are open to all EE students and faculty are held every other week to foster student faculty relations. Delta Mu chapter is also sponsoring a technical film series which is open to all students in the engineering college. These films usually concern selected topics in electrical engineering.

A field trip is also in the schedule of activities for this coming semester. The trip will take us to an RCA research facility in the area. We hope that this will be an enlightening experience for all. In addition to these events, HKN is running a tutoring program aimed at helping sophomore and junior EE students.

On the lighter side of things, Delta Mu chapter held an EE volleyball game which proved to be most enjoyable to all who played. Finally a TGIF in planning for an end of the semester celebrations.

by Bob Miller

EPSILON EPSILON, University of Houston — During the 1977-1978 period Epsilon Epsilon Chapter held two initiation services, increasing the membership by eighteen. Eta Kappa Nu members worked with IEEE members to paint, carpet and decorate a new office to be used by both organizations.

The fall and spring banquets were enjoyed by members and guests in restaurants in metropolitan Houston.

Chapter members were pleased to learn that Ken Anderson, one of our group, was selected by the Electrical Engineering Department as the most outstanding electrical engineering student for the year. Later Ken, the recording secretary of our chapter, in competition with other outstanding students in other fields of engineering, was chosen as the most outstanding engineering student from the Cullen College of Engineering at The University of Houston.

Drake Peddy, another member of Epsilon Epsilon Chapter, placed first in the IEEE Student Paper Competition. Mark Johnson, also from our chapter, placed second in this competition and served as chairman of the IEEE Student Branch at The University of Houston.

In the coming year students look forward to hearing about the travel and teaching experiences of our faculty advisor, Dr. Thomas N. Whitaker, P.E., Professor of Electrical Engineering, who spent the summer teaching in Libya.

by Ellen Evans

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