THE BRIDGE

vol 100, no. 1 / winter 2004

of Eta Kappa Nu



A Century of
Honoring Excellence
in Electrical and Computer
Engineering

Eta Kappa Nu Centennial 1904 - 2004



Special Centennial Collectors Edition

ETA KAPPA NU

Electrical and Computer Engineering Honor Society

he Eta Kappa Nu Association was founded at the University of Illinois at Urbana in 1904 by Maurice L. Carr, to encourage excellence in education for the benefit of the public by: Marking in a fitting manner those who have conferred honor upon engineering education by distinguished scholarship. activities, leadership and exemplary character as students in electrical or computer engineering, or by their attainments in the field of electrical or computer engineering; Providing educational and financial support to said students; and Fostering educational excellence in engineering colleges.



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1-800-218-1681

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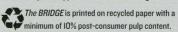
Eta Kappa Nu is a member of the Association of College Honor Societies.

The BRIDGE is the official publication of the Eta Kappa Nu Association, the electrical and computer engineering honor society. The BRIDGE is published quarterly by the Eta Kappa Nu Association, 2651 Yorkshire Lane, Lisle, IL. Printed at Haywood Printing Company, 5th & Ferry St., Lafayette, Indiana, Periodicals postage paid at Lafayette, Indiana. Subscription price: \$15 - three years; Life Subscription \$60

Ideas and Opinions expressed in the BRIDGE are those of individuals and do not necessarily represent the views of the Eta Kappa Nu Association, the Board of Directors, or staff.

ISSN-0006-9809

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features

HKN Centennial Celebration

HKN returns to the University of Illinois to celebrate its Centennial. Students, alumni, and invited guests join this historic event to relive early HKN history.

Centennial Leadership Conference

Alpha Chapter hosts this year's National Student Leadership Conference on October 22-24, 2004 with a full agenda of distinguished speakers and events.

New Eminent Members Inducted

Henry L. Bachman, Walter Jeremiah (Jerry) Sanders, and Arthur Stern are inducted as HKN's newest Eminent Members during the Centennial events.

Special Centennial Edition
A Century of Honoring Excellence
in Electrical and Computer Engineering

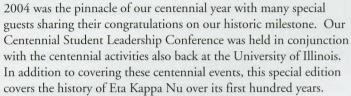
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FROMTHE BRIDGE

A Special Centennial Tribute

Telcome to this special tribute to the first 100 years of Eta Kappa Nu. A century of Honoring Excellence is dedicated to the Eta Kappa Nu Association at the time of its centennial anniversary celebration at the University of Illinois. It is intended as a commemorative and historical record to which the many members and friends of Eta Kappa Nu can look with inspiration.

This special centennial collectors edition of *The Bridge* features articles covering our centennial festivities back at the University of Illinois where our society was founded one hundred years ago. Our Centennial Banquet held on October 23,



As we cross into our next century, Eta Kappa Nu must continue to adapt as we strive to make our society more meaningful to students and alumni in the twenty-first century. We will focus on con-

tinuing to expand chapters, strengthening the ideals of honor, scholarship, ethics, and academic integrity for all members, and striving to build a strong national organization to support our chapters and members and publish The Bridge magazine. I view my role in HKN with great excitement because the possibilities for growth and improvement of our society are indeed limitless.

As I look back, I am awed by the magnitude of continuous contributions from many of the HKN members that I have had the privilege to work with. Many of these individuals are profiled in this centennial remembrance. As I look forward, I continue to see great individuals, great achievements and a great future for HKN.

For now though, let's take a moment and reminisce. This special tribute is dedicated to where we have been. It follows our society, its leaders, and those it has recognized throughout the past century. It relates the history of our founding fathers and their goals for the society. It covers the growth of the society, and contains a tribute to its past presidents, board members, Eminent Members, and award programs. But most importantly, it follows Eta Kappa Nu itself and how the organization has changed and how the organization and its programs have adapted throughout the past century.

In the one hundred years since the first informal meetings were held on the Urbana campus, Eta Kappa Nu has achieved stature as the honor society for one of the world's most important professions. It is a common thread that binds together over two hundred thousand members that are dedicated to excellence in electrical and computer engineering.

Bon Spanke

A Century of Honoring Excellence in Electrical and Computer Engineering was prepared and published by the HKN headquarters staff as a token of respect for the electrical and computer engineering profession. as exemplified by the membership of the Eta Kappa Nu Association. Presidential historical research and compilation by Jutta Willmann. Editorial supervison and layout by Ron A. Spanke.

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Eta Kappa Nu Association

The Electrical and Computer Engineering Honor Society

Founded October 28, 1904

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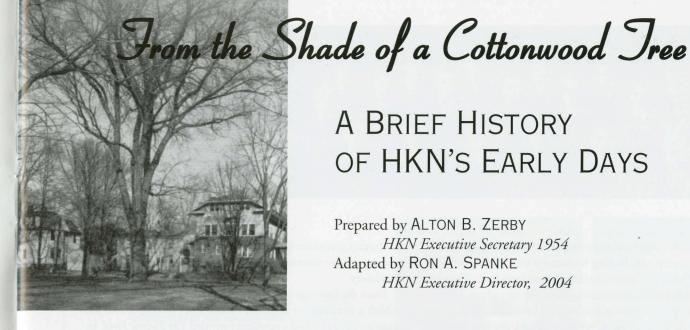
Vladimir Karapetoff Award

Donald Christiansen, Chair **Eminent Member Award**

James A. D'Arcy, Chair

Distinguished Service Award Larry Dwon, Chair

All board members and committee chairs can be reached through the HKN Headquarters Office



A BRIEF HISTORY OF HKN'S EARLY DAYS

Prepared by ALTON B. ZERBY HKN Executive Secretary 1954 Adapted by RON A. SPANKE HKN Executive Director, 2004

f mythological beliefs persisted today, there would be many claims that Eta Kappa Nu sprang full-grown out of the mind of Lits Founder as the ancient Greeks claimed that Eros (Cupid) sprang out of the shoulder of Aphrodite. However, it is well known and fully accepted that worthy ideas as well as marvelous machines do not spring; they evolve through painstaking development. Furthermore, to have credited the founder of Eta Kappa Nu with having obtained his idea as a dream while sleeping would be a gross insult. True, Maurice L. Carr was a "dreamer," as are most men of vision, but his dreams were spirited daydreams and he had the mental and physical faculties and energy to carry them through, and the personality to interest nine others to use their brains and brawn in teamwork-like true researchers and inventors of today.

At the installation of Beta-Delta Chapter in 1937, "ML" said he did not recall definitely when the idea first occurred to him of forming a collegiate society of electrical engineering students, but he thought it occurred sometime during his sophomore year. He said, however, that he knew with certainty that while working for a utility at Springfield, Missouri, during the summer of 1904, he resolved to sound out his classmates on the subject in the fall.

He first approached a particular buddy called "Army"—Charles E. Armstrong. The idea immediately met with Armstrong's approval and the two decided to broach the subject to other classmates. "Army," who was born September 30, 1874, was almost three years "ML's" senior. As founder Edmund Wheeler has pointed out, "He and ML were considerably older than most of the rest of the group and both had had much practical experience prior to their senior year. Thus the young organization had the advantage of their counsel and advice in both class and fraternal affairs, which all of us were glad to accept."

Following their first formal meeting on Friday evening, September 23, 1904, young Carr and Armstrong effected a meeting with Milton K. Akers, Edmund B. Wheeler, and Ralph E. Bowser, who became sufficiently infected with enthusiasm to agree to a planning session. Sunday morning "ML" and "Army" spent several hours on

the steps of the Astronomical Laboratory preparing written, tangible plans-they sought secrecy at this stage.

The five met as agreed in front of University Hall on Sunday afternoon, September 25, 1904, and wandered to a shady spot under a large cottonwood tree in the middle of an Agriculture Department field off the main campus. The tree has since become sentimentally emblematic of the early history of the organization, although it was but a chance choice and sheltered but a few subsequent meetings.

The following five weeks were extremely busy ones. A name and an emblem were chosen, policies of membership had to be defined, membership qualifications and an induction ritual were drafted. Early in this organization period Fred D. Smith, Frank R. Winders, and William T. Burnett joined the original five. Then, on October 28, 1904, at the home of Frank Winders, the first induction meeting was held. Carl K. Brydges and Hibbard S. Greene, both seniors, had by then consented to participate and it is fairly well established that Otto Wiemer became the first formal initiate.

Finally, the organization received recognition from the university administration and later meetings were held in a room in the EE

All early reports were that Carr's original idea was to make the chief purpose of the society one of employment-a professional union, we would call it today. But in those days such organizations were not thought of. The early publications quite plainly indicate this purpose. However, not many years passed and very few chapters were installed before it was decided that Eta Kappa Nu should be an EE honor society with scholarship as one of its chief qualifications.

Wheeler recalls that scholarship was an important consideration from the first, but not a deciding factor. As secretary of the pioneer chapter, he, along with Carr and others of the original ten, decided that invitation to membership should depend primarily upon a collective favorable judgement of individual candidates and as to the likelihood of their eventual success in the engineering field.

Thus it was concluded that some classmates would not be considered eligible regardless of their scholastic rating and the matter of



ETA KAPPA NU in 1905 (Alpha Chapter). Left to right, Front row: F. H. Winders, C. K. Brydges, F. E. Smith, M. L. Carr, E. B. Wheeler, M. K. Akers, C. E. Armstrong and H. S. Green. Middle row: C.C. Carr, W. T. Burnett, W. H. Weaver, L. V. James, O. Wiemer, L. Moseman, and R. E. Bowser. In rear: L. F. Wooster, M. H. Brightman, H. D. Cornell, T. H. Armine, G.W. Saathoff, and H. A. Bergert.

scholarship qualification for membership was temporarily deferred. In short, the founders were looking for future leaders of the profession!

With those basic ideals the organization was launched. The seal and plate for membership certificates were made up early in 1905 and the certificates were delivered in time for commencement. While HKN was strictly a "local" when organized, the foundations of a "national" were so strong that when the chapter assembled a first convention prior to the 1905 graduating exercises a full list of "national" officers was elected from the departing class.

The formation of a "ghost national" on the part of the founding members was more than a sign of wishful thinking because groups of EE's in Midwestern schools heard of the society and petitioned for a charter. The first new chapter was installed at Purdue University in 1906. But that organization "went on the rocks" quite early. It appears that our early members, being young, did not fully understand the workings of college administrations and had not obtained prior approval of the Purdue officialdom. The President of Purdue required that the charter be withdrawn, which was done. But those already inducted were continued as members of Eta Chapter (a chapter-at-large). In 1913, the Purdue EE administration requested a charter for a chapter on its campus and Beta was reinstated.

Gamma Chapter was installed at Ohio State University in 1907, two more, Delta at Armour Institute of Technology (now Illinois Institute of Technology) and Epsilon at Pennsylvania State College in 1909. Chapters at Case School of Applied Science (now Case Institute of Technology) and at University of Wisconsin were added in 1910. By then the national characteristics of Eta Kappa Nu were established. Still, growth was not phenomenal and continued at an average of but one chapter a year to 1916.

Scholastic standards observed soon after the founding of Eta Kappa Nu were memorialized in a mild statement written into the Constitution during the Convention of 1913. This set definite numerical limits to the proportion of each EE class that could be elected and required that the bylaws of each chapter must specify definite scholarship standards subject to approval by the National Executive Council. In general, these standards were specified in grade points. Then, during the latter part of the 1930's, our national officers recommended that each college chapter set the upper fourth of the junior EE class and upper third of the senior EE class as eligible for membership. In 1947, The Association of College Honor Societies (ACHS) opened up membership to specialized or discipline-specific honor societies and Eta Kappa Nu joined the Association of College Honor Societies that year. ACHS recommended that the

scholarship guidelines limiting membership to the upper third be written into our constitution, and the scholarship guidelines became mandatory.

From the first year of existence, the new organization began to publish a newsletter or magazine. From 1905 through 1908, the organization published a newsletter entitled *The Electric Field*. In 1909, *The Bridge* began publication to act as a vehicle of communication between students and alumni. In fact, it was the idea of the founders, carried through to this day, that Eta Kappa Nu should be more than a campus organization-a student is a member of a campus chapter at most for two years; but one remains an alumnus for the remainder of their life!

During the early part of the organization, several alumni chapters were established to keep members involved in the organization after graduation. These alumni chapters have provided continuous support for the national organization and have helped create and administer many of our HKN award programs, in addition to supporting relations with their local college chapters.

To the ten founders, the adoption of a Constitution, the choosing of a name and insignia, and the formulation of a ritual was a serious undertaking. But little did those inspired young men then realize how seriously their lead would be followed-that they had given life and purpose to a society adding standards and prestige to an honored profession; that one hundred years later Eta Kappa Nu would have grown to a record of 211 college chapters and nearly 200,000 inducted members.

Founders Plaque and memorial boulder commemorating the founding of the Eta Kappa Nu Honor Society and its initial charter members were placed in front of the electrical engineering building on the University of Illinois campus, November 9, 1929.

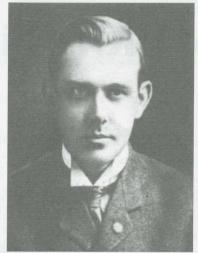


MAURICE LEROY CARR

April 17, 1877 - July 13, 1942

"Until the last, he was intensely interested in the society which he founded. A dreamer who made his dreams come true, he even had dreams for the future of Eta Kappa Nu. His untimely passing challenges us to see that his dreams of the future of our society come true. A real friend, the memory of whom can never die."

ALTON B. ZERBY





At left, picture of Maurice L. Carr taken around the time of Eta Kappa Nu's founding in 1905. At right, HKN's founder shown later in life.

wo hundred and eleven college chapters all over the United States are today a living monument to the memory of Maurice L. Carr. Because of his dream one hundred years ago, some 200,000 electrical and computer engineers have known the rewards of association with other engineers mutually interested in the promotion of excellence in electrical and computer engineering education and high ideals and service within the profession.

"ML" Carr was born near Avon, Illinois, and was graduated from Avon High School in 1895. Early in life, he exhibited a desire to build things and after his graduation he helped his father connecting instruments and building short transmission lines for a small telephone company in which the elder Carr had an interest.

After brief service during the Spanish-American War, Carr took his mustering-out money and enrolled in the Engineering College of the University of Illinois. He ran out of money the next year and spent three years building more telephone lines, working in an electric meter factory, and even teaching at Avon High School. In 1902 he was able to return to college, where he helped in the Physics Laboratory and worked for a utility company during vacations to see him through.

"ML" was graduated in the spring of 1905 with honors and

was elected to Tau Beta Pi and Sigma Xi. The next year he served as an assistant for the Department of Physics in the experiment station at Urbana, where he worked on the collapse of boiler flues under external pressure and high temperature. He also worked on high temperature measurements—a field then in its infancy—but left at the end of the year to assume charge of the electrical testing department of the Peoria Gas and Electric Company.

In 1907 Carr affiliated himself with the Underwriters' Laboratories in Chicago, where he was employed for 13 years. He pioneered in the fire testing of building materials and introduced quantitative methods to the field. He originated the time-rating of fire protective devices as well as a method of testing safes. During this time he served as an instructor in the Lewis Institute Night School for four years.

In 1930 he joined the Pittsburgh Testing Laboratory in Pittsburgh, Pennsylvania, and from 1932 until his death ten years later he was Director of Research.

Maurice Carr was given the Professional EE degree by his alma mater in 1911. He was a member of the National Fire Protection Association, the American Society of Heating and Ventilating Engineers, and a Fellow of the American Association for the Advancement of Science.

Historical

of HKN's First Century

First formal planning meeting on September 23, 1904

Eta Kappa Nu chosen for name, taken from the first, fourth, and last letters of "HΛEKTPON" the greek word for amber or electron.

The Wheatstone Bridge chosen as the symbol of the society

First Membership qualifications and criteria defined

First Initiation Ritual written

First Induction held on Oct. 28, 1904. Founding date of the Organization

First Seal and plate of organization created

First Membership Certificates produced

First Publication "The Electric Field" Volume 1, published annually

University of Illinois organization designated as Alpha Chapter of an envisioned national organization

First 'national' convention and national officers elected

First Expansion chapter ("Beta") installed at Purdue. Subsequently closed and reinstalled in 1913 1906

First Alumni chapter established at Purdue 1908

First issue of "The Eta Kappa Nu Yearbook", labeled as volume 1, no 1. 1909

1910 First Honorary Member

First issue of "The Bridge" magazine, the new name for the Eta Kappa Nu Yearbook

Second issue of "The Bridge" adjusts volume number to be volume 7 to account for the four issues of "The Electric 1911 Field" 1905-08, the 1909 issue of the Yearbook, and the 1910 issue of The Bridge. Bridge published annually.

First general revision of the constitution, which now includes scholastic gradepoint standards 1913

1920 Bridge magazine published quarterly

HKN Shield and coat-of-arms adopted 1927

National Advisory Board created. 1928

Executive Secretary position created as the first paid national officer

J. A. Umhoefer elected as First Executive Secretary

Biennial Convention Authorized 1930

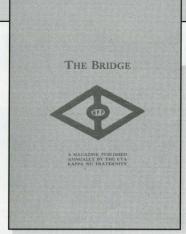
Leland A. Spangler elected as second Executive Secretary 1931

1932 College Visitation Program begins

Outstanding Chapter Activities Award established

Alton B. Zerby elected executive secretary and serves until 1957. HKN national HQ office moves to Dillsburg, PA.

The first issue of The Bridge magazine was published in 1910. It was 6x8.5 inches and contained 62 pages. It listed the national officers and officers of all five chapters at the time as well as a complete list of all members and addresses. Included were several articles written by the HKN founders and others. The 1910 edition did not contain a volume number, but has retroactively been labeled as Volume 6. The 1911 issue of The Bridge was correctly labeled as volume 7.



1936	Outstanding Young Electrica	l Engineer Award program established.	Administered by the NY alumni chapter
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1942 M. L. Carr died

HKN Admitted to the Association of College Honor Societies

Eminent Member program established

HKN incorporates in the state of Delaware as the Eta Kappa Nu Association

1954 National Convention and 50-year anniversary held at University of Illinois

First HKN Sound Movie produced as a guidance film for potential engineers

Paul Hudson elected as executive secretary, serves until 1988. HKN headquarters office moves back to Urbana, IL HKN receives 501(c)7 non-profit tax exempt status from the IRS as a fraternal and social organization

Organization structure changes to create a board of directors with a president, VP and executive secretary and four directors. Replaces the National Advisory Board (NAB).

Amendment to Delaware articles of incorporation filed.

Outstanding EE Student award program established. Administered by the LA alumni chapter. Later renamed the Zerby-Koerner Outstanding ECE Student award.

1970 Second HKN movie produced entitled "Engineering: The challenge of the Future"

Distinguished Service Award program established

Distinguished Young EE Teacher Award established, Later renamed the C. Holmes MacDonald Outstanding Teacher Award

Norman R.Carson Outstanding EE Junior Award program established.

Bob Betten elected as the new executive secretary and serves until 1999. HKN headquarters moves to Rolla, MO

Strategic Planning Meeting held to recast and revitalize HKN organization. Proposes sweeping changes in organization structure, leadership, constitution and finances.

2000 Ron Spanke named to replace Bob Betten as executive secretary. Headquarters office moves to Lisle, IL Scope of organization officially expanded to include Electrical and Computer Engineering

2001 Amended and Restated articles of incorporation are filed with the state of Delaware to emphasize the focus of the organization as promoting excellence in electrical and computer engineering education and to add language to enable future charitable organization status.

2002 New constitution passed to redefine organization. Board expanded to six directors. Executive Secretary is eliminated. Executive Director position is defined as an employee reporting to the board. Dr. Spanke assumes new executive director position. Executive council now consists of President, Vice-President, and Past President

First National Student Leadership Conference held, hosted by Nu chapter at Iowa State University.

2004 HKN receives 501(c)3 non-profit status from the IRS as a charitable and educational organization enabling contributions to be tax-deductable

Eta Kappa Nu Centennial banquet and centennial student leadership conference held at University of Illinois.

Centennial Chapter Directory

ta Kappa Nu grew from an idea into a working chapter and has experienced a growth to 211 chapters throughout the past century. For such a society to become the vigorous organization that it is now requires that it be far more than a passing fad. That our founders had faith in their vision can clearly be seen today by the proliferation of Eta Kappa Nu and it's stature in all Universities and in the electrical and computer engineering profession.

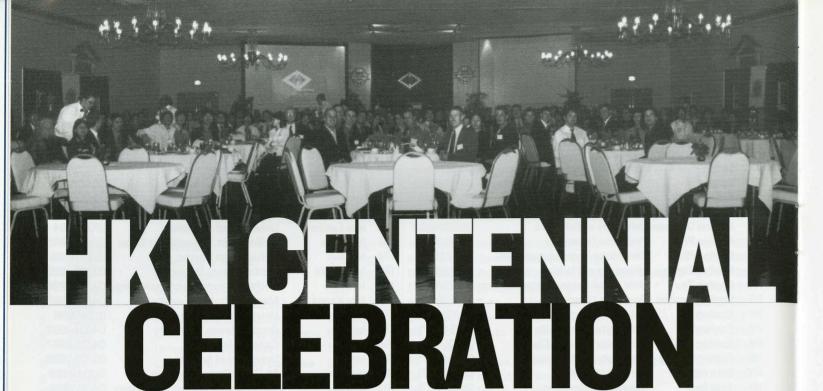
	Chapter	University	Installed	49	Gamma Beta	Northeastern University	03/04/1950
1	Alpha	University of Illinois - Urbana	10/28/1904	50		Clarkson College	04/29/1950
2	Beta	Purdue University	1906 & 1913	51	Gamma Delta	Worcester Polytechnic Institute	06/02/1950
3	Gamma	Ohio State University	1907	52		Rutgers University	06/03/1950
4	Delta	Illinois Institute of Technology	1909	53	Gamma Zeta	Michigan State University	03/13/1951
5	Epsilon	Pennsylvania State University	12/04/1909	54	Gamma Eta	Syracuse University	04/14/1951
6	Zeta	Case Western Reserve University	02/03/1910	55	Gamma Theta	University of Missouri-Rolla	04/26/1952
7	Theta	University of Wisconsin	04/30/1910	56	Gamma lota	University of Kansas	05/24/1952
8	lota	University of Missouri-Columbia	06/12/1911	57	Gamma Kappa	New Jersey Inst. of Technology	05/23/1952
9	Карра	Cornell University	01/27/1912	58	Gamma Lambda	Columbia University	07/01/1954
10	Lambda	University of Pennsylvania	03/12/1913	59	Gamma Mu	Texas A & M University	10/08/1955
11	Mu	University of California-Berkeley	12/18/1915	60	Gamma Nu	Texas Tech University	04/21/1956
12	Nu	Iowa State University	05/13/1916	61	Gamma Xi	Univ of Maryland-College Park	05/25/1957
13	Xi	Auburn University	04/12/1920	62	Gamma Omicron	Southern Methodist University	05/06/1957
14	Omicron	University of Minnesota	05/22/1920	63	Gamma Pi	University of Virginia	05/20/1957
15	Pi	Oregon State University	12/19/1921	64	Gamma Rho	South Dakota State University	11/16/1957
16	Rho	University of Colorado	03/04/1922	65	Gamma Sigma	University of Utah	01/16/1958
17	Sigma	Carnegie-Mellon University	05/19/1923	66	Gamma Tau	North Dakota State University	04/24/1958
18	Tau	University of Cincinnati	05/26/1923	67	Gamma Upsilon	Johns Hopkins University	05/09/1958
19	Upsilon		06/06/1925	68	Gamma Phi	University of Arkansas	01/19/1959
20	Phi	Union College	02/20/1926	69	Gamma Chi	New Mexico State University	05/09/1959
21	Chi	Lehigh University	05/22/1926	70	Gamma Psi	Lafayette College	05/16/1959
22	Psi	University of Texas-Austin	04/24/1928	71	Gamma Omega	Mississippi State University	12/10/1959
23	Omega	Oklahoma State University	02/15/1930	72	Delta Alpha	Wayne State University	01/18/1960
24	Beta Alpha	Drexel University	05/01/1935	73	Delta Beta	Lamar University-Beaumont	05/13/1960
25	Beta Beta	Brooklyn Polytechnic Institute	05/01/1936	74	Delta Gamma	Louisiana Tech University	05/13/1960
26	Beta Gamma	Michigan Technological University	06/06/1936	75	Delta Delta	University of Denver	05/21/1960
27	Beta Delta	University of Pittsburgh	05/14/1937	76	Delta Epsilon	Ohio University	05/21/1960
28	Beta Epsilon	University of Michigan	04/24/1937	77	Delta Zeta	Washington University-St. Louis	05/19/1960
29	Beta Zeta	New York University	05/01/1937	78	Delta Eta	University of Massachusetts	05/21/1960
30	Beta Eta	North Carolina State University	05/28/1938	79	Delta Theta	Pratt Institute	05/21/1960
31	Beta Theta	Massachusetts Inst of Technology	04/15/1939	80	Delta lota	Louisiana State University	04/16/1961
32	Beta lota	University of Iowa	05/05/1939	81	Delta Kappa	University of Maine	05/12/1961
33	Beta Kappa	Kansas State University	05/06/1939	82	Delta Lambda	Duke University	05/14/1961
34	Beta Lambda	Virginia Tech	05/18/1940	83	Delta Mu	Villanova University	05/16/1961
35	Beta Mu	Georgia Institute of Technology	05/17/1941	84	Delta Nu	University of Alabama	04/14/1962
36	Beta Nu	Rensselaer Polytechnic Inst.	05/11/1942	85	Delta Xi	Air Force Institute of Technology	02/02/1962
37	Beta Xi	University of Oklahoma	05/16/1942	86	Delta Omicron	University of New Mexico	04/08/1962
38	Beta Omicron	Marquette University	01/21/1945	87	Delta Pi	Colorado State University	05/18/1962
39	Beta Pi	City College of New York	02/16/1946	88	Delta Rho	University of North Dakota	05/11/1962
40	Beta Rho	West Virginia University	04/02/1947	89	Delta Sigma	University of Notre Dame	04/14/1962
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44	Beta Phi	University of Tennessee	12/11/1948	93	Delta Chi	Cooper Union	12/19/1962
45	Beta Chi	S. Dakota School of Mines & Tech	05/11/1949	94	Delta Psi	St. Louis University	04/01/1963
46	Beta Psi	University of Nebraska	05/14/1949	95	Delta Omega	University of Hawaii at Manoa	04/09/1963
47	Beta Omega	University of Connecticut	05/21/1949	96	Epsilon Alpha	Cleveland State University	05/01/1963
48	Gamma Alpha	Manhattan College	01/28/1950	97	Epsilon Beta	Arizona State University	05/04/1963

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99	Epsilon Delta	Tufts University	01/11/1964	16
100	Epsilon Epsilon	University of Houston	05/15/1964	16
101	Epsilon Zeta	Univ of Massachusetts-Lowell	12/12/1964	16
102	Epsilon Eta	Rose-Hulman Institute of Tech.	10/27/1965	16
103	Epsilon Theta	California State UnivLong Beach		16
104	Epsilon lota	San Jose State University	05/15/1965	16
105	Epsilon Kappa	University of Miami	12/04/1965	16
106	Epsilon Lambda	Vanderbilt University	04/22/1966	16
107	Epsilon Mu	University of Texas at Arlington	04/30/1966	16
108	Epsilon Nu	California State University-LA	05/14/1966	17
109	Epsilon Xi	Wichita State University	05/22/1966	17
110		The state of the s	05/22/1966	17
III		University of Delaware Princeton University	or me - me - me - m	17
	Epsilon Pi		05/01/1967	
112	Epsilon Rho	Tennessee Technological Univ	05/12/1967	17
113	Epsilon Sigma	University of Florida	12/01/1967	17
114	Epsilon Tau	Univ of California -Santa Barbara	05/29/1969	17
115	Epsilon Upsilon	Tuskegee University	11/26/1969	17
116	Epsilon Phi	California Polytechnic St. Univ.	04/13/1971	17
117	Epsilon Chi	University of Louisville	04/24/1971	17
118	Epsilon Psi	University of Santa Clara	05/01/1971	18
119	Epsilon Omega	University of Mississippi	05/04/1971	18
120	Zeta Alpha	Monmouth College	05/05/1971	18
121	Zeta Beta	Texas A & I University	05/08/1971	18
122	Zeta Gamma	University of Rhode Island	05/10/1971	18
123	Zeta Delta	University of Texas at El Paso	05/14/1971	18
124	Zeta Epsilon	Florida Institute of Technology	05/14/1971	18
125	Zeta Zeta	University of Akron	05/15/1971	18
126	Zeta Eta	Brigham Young University	05/26/1971	18
127	Zeta Theta	California State Polytechnic Univ.	06/03/1972	18
128	Zeta lota	Clemson University	10/08/1972	18
129	Zeta Kappa	Tennessee State University	02/01/1973	18
130	Zeta Lambda	University of Texas	04/03/1973	18
131	Zeta Mu	Northrup Institute of Technology	05/01/1973	19
132	Zeta Nu	University of Tulsa	05/18/1973	18
133	Zeta Xi	Univ of Massachusetts-Dartmouth	02/04/1974	19
134	Zeta Omicron	West Virginia Institute of Tech.	03/29/1974	19
135	Zeta Pi	University of New York at Buffalo	04/05/1974	19
136	Zeta Rho	University of New Haven	12/07/1974	18
137	Zeta Sigma	Polytechnic Univ. of NY- Brooklyn	12/09/1974	19
138	Zeta Tau	San Diego State University	12/13/1974	2
139	Zeta Upsilon	Old Dominion University	11/21/1975	2
140	Zeta Phi	Tri-State University	12/01/1975	2
141	Zeta Chi	University of Central Florida	12/06/1975	2
142	Zeta Psi	Southern University A & M	01/13/1976	2
143	Zeta Omega	University of California-Irvine	02/21/1976	20
144	Theta Alpha	Tulane University	03/13/1976	20
145	Theta Beta	University of Portland	03/30/1977	20
146	Theta Gamma	Fairleigh-Dickinson University	04/22/1977	20
147	Theta Delta	Naval Postgraduate School	12/07/1977	20
148		Kettering University	03/16/1978	21
149		University of Colorado-Denver	04/01/1978	21
150		University of Alabama-Huntsville	04/29/1978	- 1
151		Polytech Univ. of NY -Farmington	04/27/1979	
152		George Washington University	03/02/1979	
153		California State University-Fresno		
154		University of South Alabama	11/30/1979	
155		SUNY at Stony Brook	12/07/1979	
		N. Carolina Agr. & Tech State Univ		
		Norwich University Southern IL UnivEdwardsville	04/28/1980	0
			05/06/1980	2
159	Theta Pi	Univ of Missouri-Kansas City	05/10/1980	2

	160	Theta Rho	Rice University	01/30/1981
	161			
	1	Theta Sigma	University of Bridgeport	04/01/1981
	162	Theta Tau	University of Michigan-Dearborn	04/18/1981
	163	Theta Upsilon	Lawrence Institute of Technology	01/16/1982
	164	Theta Phi	Virginia Military Institute	04/07/1982
	165	Theta Chi	Univ of CO-Colorado Springs	04/23/1982
	166	Theta Psi	University of Nevada-Reno	04/15/1982
	167	Theta Omega	University of the Pacific	11/12/1982
	168	lota Alpha	Univ of Alabama at Birmingham	03/25/1983
	169	lota Beta	Milwaukee School of Engineering	02/10/1984
	170	lota Gamma	University of California-LA	03/29/1984
	171	lota Delta	Stevens Institute of Technology	05/06/1984
	172	lota Epsilon	University of Hartford	11/03/1984
	173	lota Zeta	California St. University at Chico	02/22/1985
	174	lota Eta	University of Dayton	12/07/1985
	175	lota Theta	Portland State University	03/08/1986
	176	lota lota	Rochester Institute of Technology	04/05/1986
	177	lota Kappa	Montana State University	04/24/1986
	178	lota Lambda	University of Illinois-Chicago	11/24/1986
	179	lota Mu	George Mason University	04/04/1987
	180	lota Nu	Gannon University	04/28/1987
	181	lota Xi	University of Arizona	03/05/1988
	182	lota Omicron	St. Cloud State University	01/04/1988
	183	lota Pi	California Institute of Technology	04/15/1989
	184	lota Rho	Lakefront	04/22/1989
H	185	lota Sigma	Temple University	05/12/1989
	186	lota Tau	University of District of Columbia	05/04/1989
	187	lota Upsilon	University of Washington	05/25/1989
	188	lota Phi	United States Military Academy	05/09/1991
	189	lota Chi	Oakland University	11/10/1990
	190	lota Psi	New York Institute of Technology	05/01/1991
	191	lota Omega	California State Univ -Fullerton	05/01/1991
	192	Kappa Alpha	Northern Illinois University	05/01/1991
	193	Kappa Beta	Wilkes University	12/06/1991
	194	Kappa Gamma	University of Alaska Fairbanks	03/01/1991
	195	Kappa Delta	Florida International University	04/03/1992
	196	Kappa Epsilon	Binghamton University	11/20/1992
	197	Kappa Zeta	New York Institute of Technology	12/11/1992
	198	Kappa Eta	University of San Diego	12/11/1993
	199	Kappa Theta	University of Wisconsin-Platteville	02/26/1994
	200	Kappa lota	Embry-Riddle Aeronautical Univ	04/24/1994
	201	Карра Карра	University of Texas at Dallas	11/17/1995
	202	Kappa Lambda	University of Memphis	12/15/1995
	203	Kappa Mu	Capitol College	05/02/1997
	204	Kappa Nu	University of North Florida	05/17/1997
	205	Kappa Xi	University of South Florida	04/25/1998
	206	Kappa Omicron	State University of New York	10/12/1999
-	207	Kappa Pi	Boise State University	10/27/2001
	208	Kappa Rho	Purdue Univ at IUPUI	05/11/2002
	209	Kappa Sigma	Boston University	03/21/2003
	210	Kappa Tau	Baylor University	03/28/2003
	211	Kappa Upsilon	Univ. of Texas at San Antonio	11/19/2004

Eta Chapter is a chapter-at-large which provides membership for outstanding students in colleges which do not have sufficient enrollment to support an active chapter. Eta Chapter has no formal organization and has no vote in the convention. Many chapters start out as an Eta chapter before becoming a full-fledged installed chapter.

212 Eta-Merrimack Merrimack College (Eta)213 Eta-Evansville University of Evansville (Eta)



100 Years of Honoring Excellence

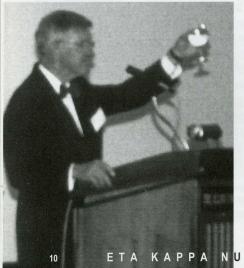
by Ron A. Spanke, Ω '82

he historic finally came. It's not often that one gets to celebrate a 100-year anniversary, and Eta Kappa Nu celebrated its centennial in style on Saturday, October 23, 2004. HKN returned to the University of Illinois, the birthplace of our organization, to commemorate the October 28, 1904 founding of our society. One of the largest HKN functions ever held, the centennial banquet was attended by 244 students, alumni, and invited dignitaries. This event culminated years of planning and preparations by

the board of directors and the headquarters staff, and it was a momentous and memorable occasion for all who attended.

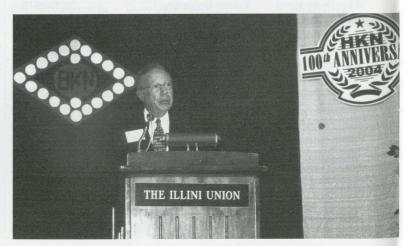
A GRAND AFFAIR

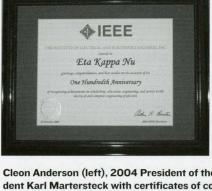
The evening festivities began with a cocktail reception and horsd'oeuvres. A live harpist serenaded attendees during the reception and dinner. When the doors to the banquet hall opened at seven o'clock, the room had been decorated in black and gold drape and



Left - HKN Centennial Committee chair Dick Gowen leads the banquet in a centennial toast to the founders and members of Eta Kappa Nu.

Right - 2004-2005 HKN President Karl Martersteck reflects on the past and future of the Eta Kappa Nu organization.









Cleon Anderson (left), 2004 President of the IEEE and Fern Katronetsky (right) Executive Director of the IEEE Foundation present HKN President Karl Martersteck with certificates of congratulations on the HKN centennial. The framed certificates from IEEE and the IEEE Foundation are shown on the left and right.

turned into the HKN founders hall, with large framed portraits of HKN's ten founders hanging along the walls. As executive director, I had the privilege to serve as master of ceremonies for the centennial evening festivities.

CENTENNIAL TOAST

Dr. Richard Gowen, chair of the centennial committee, was invited to lead the banquet in the centennial toasts. Gowen, an HKN eminent member and a past president, noted that on October 28, 1904, ten students met to embrace the vision of our founder, Maurice L. Carr, to create an organization to recognize fellow students who possess the qualities to become leaders of their profession. They gathered for the first induction ceremony of Eta Kappa Nu.

Gowen asked all to rise and charge their glasses to join in two centennial toasts. First was a toast to the founders of Eta Kappa Nu for their vision of a society to honor individuals judged most likely to become leaders of their profession. To the founders!! Second was a toast to the century of members of Eta Kappa Nu, whose knowledge and leadership have led our profession to enhance the quality of life for peoples throughout the world. To our members!!

Dinner was served and everyone enjoyed a selection of prime rib, salmon, herb-roasted chicken or a vegetable entrée.

WELCOME BACK TO UNIVERSITY OF ILLINOIS

After dinner, the centennial program began with welcoming remarks from Dr. Chet Gardner, Vice President of Academic Affairs at the University of Illinois. Dr. Gardner reviewed the early history of HKN on the U of I campus and its early growth at the beginning of the century. On behalf of the University of Illinois administration, he welcomed our organization back to its birthplace and thanked all present not only for joining in this centennial celebration, but also for their continued support of our remarkable profession.

PRESIDENTIAL REMARKS

Karl Martersteck, the 2004-2005 centennial president of Eta Kappa Nu shared remarks on the past and future of our organization. When the organization was founded, its original purpose focused on finding jobs and helping members get a foothold in our profession.

Since that time, the organization's goals have evolved, such that today the focus of the organization is to encourage excellence in engineering education and in achievements by students, educators, and career electrical and computer engineers for the benefit of the public. Martersteck highlighted a century of technological advances that HKN members have helped to bring about, and then postulated some of the technical challenges facing the world in the near future toward which HKN members will continue to apply their skills.

In addition to strong technical knowledge and leadership skills required of HKN members, Martersteck noted that the organization today is placing a stronger focus on the third requirement for mem-



Special etched crystal mementos were designed by HKN headquarters to commemorate our centennial and were personalized for each organization. They were presented to the IEEE Foundation (shown above), IEEE, the Association of College Honor Societies, Tau Beta Pi, and the Electrical and Computer Engineering Department Heads Association (ECEDHA). A final centennial crystal memento (shown below) remains on display at the HKN National Headquarters.

bership: Character. It is this moral and ethical component which will become increasingly more important as we apply the vast power of our new technological breakthroughs in the future.

CENTENNIAL EVENTS

Dr. Richard Gowen returned to the podium as chair of the centennial committee to outline several of the events and programs that the centennial committee has planned for the centennial year. He encouraged all college chapters to build a centennial website to recognize their own chapter history and outstanding past alumni and industry associates from their chapter. He invited all chapters to become involved in the chapter centennial projects where each chapter is encouraged to undertake a meaningful project on their own campus to help celebrate the HKN centennial year. These projects



Jim Viehland (left), President of the Association of College Honor Societies, receives the etched crystal centennial memento for ACHS from centennial chair Dick Gowen and executive director Ron Spanke

should focus on developing their own chapter, campus, department or community.

Gowen acknowledged the special publication by the headquarters staff entitled *A Century of Honoring Excellence in Electrical and Computer Engineering*, which compiled the HKN history, governance, and past recipients of all HKN major awards. This special publication was distributed to all who attended the centennial banquet and is being included as part of the special centennial Bridge edition for all Bridge readers.

One of the special centennial projects was the creation of the book *Profiles in Engineering Leadership* highlighting each of the eminent members of Eta Kappa Nu. This major project was undertaken with the help of the IEEE history center and HKN headquarters and supported by a major grant from the IEEE Foundation.

Also for the Centennial, HKN will define the Eta Kappa Nu Pantheon. The Pantheon will consist of 20 individuals who were the progenitors of our profession. The composition of the HKN Pantheon will be announced at the HKN Spring Awards banquet in April, 2005. Along with this Pantheon project is a special pantheon student challenge. All undergraduate student members are invited to

submit their best guesses for the individuals who will be named to this pantheon, and there are some significant monetary prizes for those who guess the most names.

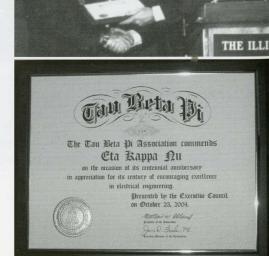
SPECIAL GUESTS

Cleon Anderson, the 2005 president of IEEE addressed the banquet to convey congratulations from the board of directors of IEEE. IEEE has over 340,000 members worldwide. Anderson stated that the visions of IEEE and HKN are similar in many respects, however HKN has the distinct characteristic of honoring outstanding students and marking them as so honored. He recalled that after his induction into HKN, he knew that he had been marked in a fitting manner and that his university and profession expected great things from him. One very meaningful difference between the two organizations for him was that to be a member of IEEE he asked to join; but to be a member of Eta Kappa Nu, he was chosen.

Fern Katronetsky, the executive director of the IEEE Foundation shared congratulations from the IEEE Foundation. Fern has also been a major contributor and administrator for the HKN OYEE award committee for many years. The IEEE Foundation is the philanthropic arm of IEEE and has sponsored several HKN projects including national student conferences and the special *Profiles in Engineering Leadership* book. Anderson and Katronetsky presented special certificates to president Martersteck from the IEEE and the IEEE Foundation congratulating HKN on its one hundredth anniversary. Dr. Spanke then presented a special etched crystal memento of HKN's centennial to IEEE and to the IEEE Foundation as a token of appreciation for the support that these organizations give to HKN.

Jim Viehland, the current president of the Association of College Honor Societies conveyed congratulations from the board of directors of ACHS. Eta Kappa Nu has been a member of ACHS since 1947. The Association of College Honor Societies exists to promote and support honor societies at colleges and universities. There are 67

Jim Froula (right), executive director of Tau Beta Pi presents president Martersteck with a certificate of congratulations on our centennial (below)



member honor societies that abide by the standards of the association. These standards include many areas and Viehland noted that ethics and integrity are important aspects of all honor societies. Viehland mentioned that several honor societies were started at the University of Illinois, beginning with HKN in 1904. Executive director Spanke presented an engraved crystal memento of our centennial to ACHS, which Viehland accepted.

Jim Froula, Tau Beta Pi's national executive director, represented Tau Beta Pi. Froula spoke briefly to convey congratulations from Tau Beta Pi to a fellow engineering honor society. Tau Beta Pi is the all-engineering honor society, and many members of HKN are also members of Tau Beta Pi. Froula noted that in 1985, TBP celebrated its centennial, and that HKN participated in that celebration at Lehigh University in Bethlehem, Pennsylvania. Froula asked all members at the banquet who were also members of Tau Beta Pi to stand and a large percentage of the attendees stood. They collectively joined with Froula to present a congratulatory plaque to HKN, which president Martersteck accepted. HKN reciprocated by presenting a special etched crystal memento of the centennial to Tau Beta Pi.

Steven Goodnick represented the Electrical and Computer Engineering Department Heads Association, ECEDHA, and conveyed their congratulations to HKN. Dr. Goodnick is the 2003 president of ECEDHA and also the chair of the EE department at Arizona State University as well as a current member on the national HKN board of directors. Goodnick noted that in the last three years HKN has been a major part of the ECEDHA annual meeting. HKN is vital to the success of our ECE departments to nurture our top students as represented by Eta Kappa Nu. Goodnick is looking forward to future collaborations and partnering between ECEDHA and HKN. ECEDHA was also presented with the special etched crystal memento from HKN commemorating its centennial.

CENTENNIAL TRIBUTES

A special tribute to all Eminent Members of Eta Kappa Nu was presented. The names of all Eminent Members ever inducted were included in the Century of Honor booklet, and those Eminent Members in attendance at the banquet were asked to come forward for a special tribute and recognition. Eminent members Henry Bachman, Donald Christiansen, and Dick Gowen were honored at the banquet.

Next, a special tribute to the past presidents of Eta Kappa Nu was presented. Dr. Spanke read off the names of ten past presidents who were in attendance that evening and asked them to step up to the stage for the special tribute. A photo of those past presidents in attendance appears in the past presidents tribute later in this magazine.

The third centennial tribute was to all past directors who have served on the HKN national board of directors. There were 20 past directors present at the centennial banquet. Their names were read off and they assembled on stage for the special tribute. A photo of these 20 past directors in attendance at the centennial appears in the past presidents tribute later in this magazine.



Steven Goodnick (left), 2003 President of the Electrical and Computer Engineering Department Heads Association (ECEDHA) receives the etched crystal centennial memento for ECEDHA from centennial committee chair Dick Gowen

CONCLUDING ACTIVITIES

The banquet concluded with the presentation of the 2004 Outstanding ECE student awards by the LA Alumni Chapter. Tom Rothwell, president of the LA alumni chapter presented the awards. Two winners were recognized this year, Matthew C. Rodrigue and Matthew R. Behrend. Both national winners came to the podium to offer their reflections and remarks.

Alpha chapter presented a special centennial video that they had compiled. The video focused on several individuals sharing their reflections on the meaning of Eta Kappa Nu and their thoughts about the HKN centennial.

Executive Director Spanke concluded the program with a charge to all HKN members to uphold the principles of scholarship, leadership, ethics and academic integrity that are the cornerstones of our society and to continue their profound contributions to our profession as HKN enters its next century.

As the banquet came to a close, the attendees were invited to continue the celebration by partaking in the customary birthday tradition. Every birthday party has one, and HKN's 100th birthday party was no exception. Attendees enjoyed a piece of the centennial birthday cake along with punch and coffee in an afterglow allowing students, alumni, and guests from across the country to interact and reflect on the centennial festivities.

Happy Birthday
Eta Kappa Nu!
Centennial banquet attendees
enjoyed cake, coffee, and punch
after the banquet
while networking
with students,
alumni and guests
from across the
country.



STUDENT LEADERSHIP CONFERENCE

HOSTED BY ALPHA CHAPTER - OCTOBER 22-24, 2004

by Ron A. Spanke, Ω '82

We at Alpha Chapter are honored to have eminent speakers/panelists, the HKN national board, returning HKN alumni and of course the best and brightest in the field of Electrical and Computer Engineering from our chapter and chapters nationwide. Eta Kappa Nu has held a longstanding tradition of academic excellence, leadership both on campus and in the community and dedication, and most importantly unwavering character. As Brother and co-founder Maurice Carr put it best, all members of our society are well-rounded and diligent individuals who have chosen to "not take the path of least resistance." Thus it is my honor to welcome you all here to the University of Illinois campus where this "engineering club" was founded exactly one hundred years ago and has since grown and established itself as the only Electrical and Computer Engineering Honors Society in existence with over two hundred chapters nationwide and over three thousand new members inducted each year.

This Leadership Conference is aimed at honing your already impressive skills and guiding you in an area that our technical background does not prepare us enough for. Though many of you are established leaders on campus, in our societies and also in Eta Kappa Nu, the pursuit for self-improvement is a tireless process. We hope in these next few days, after being exposed to the insights of established corporate leaders, having shared in the experiences of time-tested leaders in the business world, and having tested your ability to both lead and work with others, you will learn not only about leading others, but also about yourselves. Thank you all for sharing with us in this important event.

-Welcoming statement from Byron Man, Alpha Chapter President

riday evening registration was the first opportunity that delegates from across the country had to begin to witness the well-planned agenda and activities that Alpha chapter had in store for them for the weekend. After registering and receiving the conference materials and conference t-shirt, one delegate was overheard exclaiming "This conference Rocks!"

Friday activities continued with tours of campus facilities leaving every thirty minutes leading up to an outdoor barbeque held under a tent set up on the Beckman Quad next to the Engineering Building where the HKN monument sits.

After the BBQ, several delegates from each of the chapters met in a Ritual committee workshop to review and discuss the proposed updating of the HKN initiation ritual. Afterwards Bradley McCredie from IBM discussed what it takes for an engineer to become a leader and what skills, character, and actions it takes to build leadership products that lead and redefine the industry. He discussed the considerations, risks and decisions that an engineer must work through to design leadership products as well as the commitment it takes to execute leadership designs.

Friday evening concluded with a photo scavenger hunt, a fun ice-breaker activity allowing students from across the country to get to

know each other better, while at the same time introducing them a little to the University campus.

HKN National President Karl Martersteck officially opened the conference on Saturday Morning and welcomed all participants. Dr.

Richard Blahut, the department chair of the ECE department at UIUC likewise welcomed the brightest engineering students from across the country.

Scott Hanan, the Alpha chapter conference chair took the opportunity to welcome all of the delegates and thank several of the conference



Dr. Steve Watkins discusses opportunities to participate in public policy in the U.S. Congress

corporate sponsors. The conference would not have been possible and the conference fee would not have been so low without the support from Motorola, NVIDIA, AMD, Intel, and Microsoft. In addition,

several University of Illinois organizations contributed their sponsorship to the conference including the Engineering Council, SORF, the UIUC Alumni Association, and the ECE department.

An interactive discussion panel was held focusing on the topic of moving from Learner to Leader and applying your skills to any disci-



Chapter representatives met with the national Ritual Committe to review and discuss proposed changes to the updated HKN initiation ritual coming out this year.

pline. The conference divided into two groups, with one group led by David Lemson from Microsoft and Bradley McCredie from IBM and the second group led by HKN national president Karl Martersteck and HKN past president Richard Gowen. After half an hour, the groups switched so participants could hear both viewpoints. The panel leaders each shared their experiences with leadership and offered skills and techniques to the group. They fielded various questions from the students and challenged them to step up to the next level.

Executive Director Ron Spanke led a session that described the HKN headquarters operations and the services that HKN HQ offers for chapter advisors, chapter officers, members, and alumni. He displayed the honor cords, honor stoles, and other chapter items that can be ordered from HKN HQ and gave suggestions for chapter presidents and bridge correspondents for reporting chapter activities to HQ.

Steve Watkins, HKN national director, gave an update on the Science and Technology Perspective of the U.S. Congress. Steve is currently on a one-year sabbatical in Washington, DC as an IEEE-USA Congressional Fellow on the staff of California Congressman Dana Rohrabacher and has responsibility for Science and Technology questions before the House Science Committee. His talk described opportunities to participate in public policy.

After lunch, the conference participants held a fun and creative hands-on session to model aspects of the business environment. They divided into teams to construct structures out of PVC pipe to maximize the travel time of water through the structure and meet other design criteria. Teams applied their leadership and design skills to construct some very creative structures.

Jerry Sanders presented the keynote address at the conference.

Sanders co-founded Advanced Micro Devices, AMD, a company that has since become a leading semiconductor manufacturer. Sanders spoke on innovation, competition and the foundations of leadership. He shared experiences on leadership qualities and motivated the attendees to strive to become leaders, perhaps CEOs, because they have the ability to say yes and make visions happen. After the keynote address an eminent member induction ceremony was held to induct Henry Bachman, Jerry Sanders, and Arthur Stern as HKN's newest eminent members (see next article).

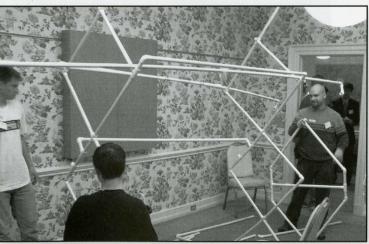
Afterwards, the attendees toured Beckman Labs and experienced state-of-the-art technology in "the CUBE" and Crash Simulator. The HKN Centennial banquet and reception concluded Saturday's activities, giving the students the chance to network with alumni and distinguished guests and experience HKN's 100-year history.

Sunday began with a leadership workshop led by Jeff Moss, program director for the Leadership Center. Attendees took an individualized leadership test and received personal feedback on their specific results. Nick Triantos from NVIDIA led a session on inspiring your co-workers, focusing on strategies to help earn peers' trust and respect and even turning a team's weakest player into one of its best performers.

The Chapter Presentations session featured invited presentations by several college chapters to discuss their best chapter practices. These chapters have been consistent winners and honorable mentions in the Outstanding Chapter Activities Award and were asked to share ideas on successful chapter programming and activities.

The conference concluded with a lunch with the HKN board, in which the national board members spread out one to a table to interact with the conference delegates to answer questions, share national perspectives and to listen to chapter comments and feedback.

After lunch, HKN national president Karl Martersteck and Alpha chapter president Byron Man thanked all who had made the conference a success and thanked all attendees for participating.



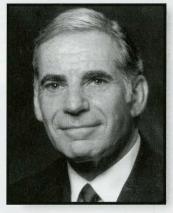
Student teams comprised of members from different chapters practiced team leadership and brainstorming skills as they constructed creative, yet functional, structures to achieve specified design criteria in the PVC pipe competition.

Alpha chapter was commended for hosting an awesome conference. As everyone headed home, we all pondered when and where the next national leadership conference might be held, as we looked forward to another opportunity for motivation and inspiration.

NEW HKN EMINENT **Members Inducted**

by Jutta Willmann

Eta Kappa Nu established the rank of Eminent Member in 1950 as the society's highest membership classification. It is conferred upon those select few whose contributions and attainments in the field of electrical and computer engineering have resulted in significant benefits to humankind. Three such individuals have recently been named to this rank by the Eta Kappa Nu National Board of Directors. Henry Bachman, Jerry Sanders, and Arthur Stern were inducted as HKN's newest Eminent Members on October 23, 2004 at the HKN Centennial activities in Champaign-Urbana, Illinois. Each of the newly inducted Eminent Members shared their insights and reflections at the induction ceremony.



HENRY L. BACHMAN

January 1, 1956, the Rose Bowl became the subject of the first transmission of a transatlantic telecast. As amazing as this was, periodic interference marred the transmission, and was traced to high power NIKE radar systems generating spurious emissions. Bachman, who began his career as a microwave and antenna engineer at Wheeler Laboratories in

1951, was assigned to a team to solve the problem. The challenge was to create a very selective transmission filter to block this spurious signal, but operate in a non-reflecting mode to avoid reflecting high energy levels back into the magnatron. This new concept required tremendous creative effort and, since testing occurred when TV was off the air between 11 p.m. and 6 a.m., many White Castle hamburgers as it was the only all-night place!

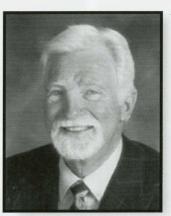
"There's no such thing as random failure. Every failure has a cause," said Bachman who throughout his career has systematically looked for the reasons behind failures. "Test a little; fix a little," Bachman explained, a seemingly simple habit that some say separates the creator from the person who maintains status

quo. Bachman advanced at Wheeler, becoming President in 1968. In 1970 Wheeler merged with Hazeltine, creating BAE SYSTEMS for which Bachman managed logistics engineering, quality, customer service and operations, engineering, market planning, business development, and special projects.

In the late 80s and early 90s when budget cuts forced defense companies to diversify, Bachman had BAE explore antenna systems. This resulted in the creation of the smart antenna with its narrow beam that had to be pointed at the transmitting mobile, thereby ultimately increasing capacity. Using existing equipment it was simple and low-cost, yet innovative. Today the smart antenna concept is embedded into today's cellular systems.

After retiring from BAE in 1995, Bachman has continued as a consultant at both BAE and at the Center for Advanced Technology for Sensor Systems at SUNY, Stony Brook. He sits on the Board of Wireless Telecom Group, and is advisory trustee, Fellow, and Distinguished Alumnus of Polytechnic University. He received his B.E.E. and M.S.E.E. from Polytechnic Institute in New York, and attended the Advanced Management program at Harvard University's School of Business.

Bachman is an AAAS Fellow, and has contributed to IEEE since college. Bachman is a Fellow, and past President of IEEE, of the IEEE Foundation, and of the IEEE Engineering Management Society, as well as a member of numerous IEEE boards and committees. Awards include the Centennial Medal (1984) and the Millennium Medal (2000).



WALTER JEREMIAH SANDERS, III

"The power to follow a dream is an intoxicant beyond belief," said Jerry Sanders, who has described himself as "an American dream kind of guy." Rising to success from poor beginnings on Chicago's south side, he earned a B.E.E. from the University of Illinois in Champaign-Urbana, IL. After a brief stint at both Douglas Aircraft (1958-59), and Motorola

Semiconductor (1959-1961) Sanders joined Fairchild Semiconductor where he advanced into its sales and marketing management positions. When management changed, Sanders' style differed from theirs, and he was fired.

Sanders decided to form Advanced Micro Devices (AMD) of Sunnyvale, CA, to sell Intel clones as plug-in replacement parts including using the same generic part number for the component. Over the years he was sued by Intel and others, but won every lawsuit against AMD because "alpha-numerics" cannot be trademarked. In 1975 he had his first epiphany that "microprocessors rule" and were the wave of the future. Later, his second epiphany was that AMD should offer customers a product superior to its competition rather than just a clone. This resulted in the Athlon chip, the first competitor to Intel's Pentium. In 2003 he earned the support of Microsoft, and Bill Gates who said, "We think Athlon is a home run."

Recently AMD built a plant in Germany for \$3 billion, yet Sanders started AMD on \$50,000 in 1969. When developing a company, he believes it's a team effort where employees require some ownership. "People first-products and profits will follow." First of all, he explained, take care of your customers, next have the engineers develop the product, and then focus on management. Sanders honors management but he "deifies leadership" when it comes from the heart. "There is no surrender; no retreat...First do the right thing, and then do the right thing first."

At 18, while at a college party, he came to the aid of a friend who was being beaten by several young thugs. The friend took off, and Sanders was kicked and punched and dumped into a garbage can. In a coma for three days, he was given the Last Rites. Sanders repeatedly has said that the incident taught him the importance of loyalty and fair play, the uncertainty of relying on others, and the absolute necessity of relying on himself. I once said "I can die, but I can't fail ... Failure is not a possiblity." Encouraging others, he tells young engineers to "dare greatly".

Sanders told the students, "After you get your education, get in the game and change the world ... The next decade will all be about information technology and you're at the core of it." Sanders received the Semiconductor Industry Association Robert N. Noyce award for industry leadership in 1991, and the American Electronics Association Medal of Achievement, 2001.



ARTHUR P. STERN

Born and raised in Hungary, Stern learned valuable life lessons when the Germans occupied Hungary and when he was imprisoned in concentration camp Bergen Belsen in 1944. Stern learned how to wiggle his way through all sorts of traps. He learned the importance of being flexible and of grabbing the opportunity of the day. Some opportunities challenge you to try something

new...others suggest you drop actions that aren't working. Upon liberation, he attended the Universities of Lausanne and Geneva in Switzerland, earning a Dipl. Ing. degree in EE in 1948 at the Swiss Federal Institute of Technology (the ETH), in Zurich, Switzer-

Stern came to America in 1951, earning an MEE from Syracuse University, and joining General Electric. There he co-invented the single-gun color picture tube for color television. In December 1952, while sitting in the GE cafeteria, opportunity-in the person of a member of higher management-sat down unexpectedly to join Stern for lunch. Casually, at the end of lunch, he asked Stern if there was anything in their research-program not being done that should've been done. "It's time to develop a transistor radio," Stern blurted out. Two days later the general manager questioned Stern about his idea. In September 1953, GE unveiled the first transistor radio.

From 1957-61 he managed the Electronic Devices Laboratory and led GE's initial efforts in integrated circuits. As Engineering Director of Martin Marietta's Electronics Division in Baltimore, MD and later as Operations Director of its subsidiary Bunker-Ramo Corp in CA, he managed the design of defense systems, mobile missile, anti-submarine, and command-control systems.

In 1966 he joined The Magnavox Company as VP, guiding development of spread spectrum communication and navigation systems. Opportunity appeared again in an unplanned conversation with another VP at Magnavox in 1968. As they discussed the imperfect navigation system of the Polaris missiles aimed at Russia, Stern offered to develop an improved navigation system. This resulted in satellite navigation and was sold to navies worldwide as well as oil tankers and other non-military businesses. Furthermore, his team contributed to the GPS concept.

Stern believes that advances in the industry have come through the amazing cooperation of numerous, ambitious individuals who communicated together about technological advances, sometimes through professional associations such as IEEE. Stern has served IEEE as Director and officer including as President of the IEEE Circuits and Systems Society. He has received the Centennial and Millennium IEEE Medals, and is a Fellow of AAAS. Currently, he devotes much time to non-profit organizations such as the California Humanitarian Foundation of Holocaust Survivors (Chairman).

Centennial TRIBUTE

to Past Presidents of Eta Kappa Nu

■his distinguished group of individuals have been instrumental in shaping Eta Kappa Nu into the Honor Society as it exists today. They have all given generously of their time and expertise and have given many years of their lives to HKN serving as vice president, president, and past president in addition to serving years as a national director or on the national advisory board. In addition to their elected positions, many have contributed significantly to HKN's award programs and committees far beyond their terms of office. We salute you and thank you for your zeal, faithfulness, and lifelong dedication to HKN.



Ten presidents of Eta Kappa Nu attended the HKN Centennial Banquet in 2004 and were recognized for their Contributions.

L to R: Jim D'Arcy, Karl Martersteck, Richard Gowen, Eric Herz, Jim Melsa, Jo Waite, Alan Lefkow, Frank Weimer, Tom Rothwell, and Jack Farley.



Maurice L. Carr 1905-1906



Edmund B. Wheeler 1906-1907



1907-1908



1909-1910

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A. F. McKee

1908-1909



Clarence T. Evans 1910-1911



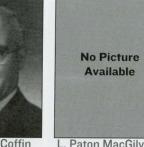
1911-1912



Leslie H. Haris

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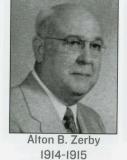
Francis A. Coffin



L. Paton MacGilvary 1919

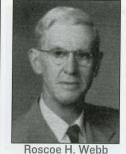
Albert H. Heitmann

1913-1914



Burt T. Anderson

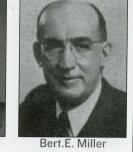
1920-1921



1915-1916

John M. Spangler

1921-1922



1916-1917

1922-1923



Henry S. Cocklin 1917-1918

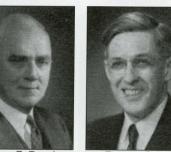




1924-1925



1925-1926 1926-1927



1927-1928



1928-1929



Mayne S. Mason 1929-1930



George H. Kelley 1930-1931



Edward F. Watson 1931-1932



1933-1934



1934-1935



Clifford A. Faust 1935-36, 1936-37



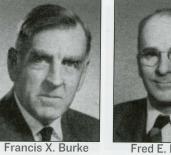
A. Morris Buck 1937-1938



Leland A. Spangler 1938-1939



1939-1940 1940-41, 1941-42



1942-1943



1943-1944



Winston E. Kock 1944-1945



Owen H. Loynes 1945-1946



Nelson S. Hibshman 1947-1948



Thomas W. Williams 1948-1949



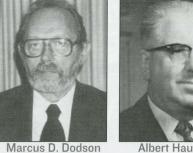
William A. Klos 1974-1975



Chalmers M. Butler 1975-1976 1976-1977



Earl D. Eyman



Albert Hauser 1978-1979



1979-1980



1949-1950



Frank E.Sanford 1950-1951



Ovid W. Eshbach 1951-1952



Ralph W. Fouse

1946-1947

Edwin B. Kurtz 1952-1953



Eric T. B. Gross 1953-1954



1954-1955



Sidney R. Parker 1980-1981



1981-1982 1982-1983



Paul B. Jacob, Jr. 1983-1984

1977-1978



Earl L. Steele 1984-1985



1985-1986



S.Reid Warren, Jr. 1955-1956



John D. Ryder 1956-1957



Carl T. Koerner 1957-1958



Larry Dwon 1958-1959



Albrecht Naeter 1959-60,1960-61



John H. Craig 1961-1962



1986-1987

Laureen H. Parker

Harold K. Knudsen 1987-1988



Virgil G. Ellerbruch 1988-1989



Robert Kennerknecht 1989-1990



James A. D'Arcy 1991-1992



John A. M. Lyon 1962-1963



1963-1964



1964-1965



John E. Lagerstrom Richard J. Koopman Howard H. Sheppard 1965-1966



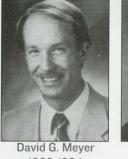
Clyde M. Hyde 1966-1967



William P. Smith 1967-1968



1998-99,99-2000



1993-1994



1994-1995



1996-1997

1990-1991



1997-1998



John (Jack) E. Farley John C. Hancock 1968-1969



1969-1970



Anthony F. Gabrielle 1970-1971



Lloyd B. Cherry 1971-1972





Richard J. Gowen Mohammad Shahidehpour James L. Melsa 2000-2001



2001-2002



1995-1996

2002-2003



2003-2004



2004-2005

Centennial TRIBUTE

to Past Officers, Directors and National Advisory Board

rom I905 when the first national office was established until I928, the national officers consisted of a President, Vice-President, and Secretary, and occasionally a Treasurer, Bridge Editor, or other officer. From I928 until I957, the national office consisted of a President, Vice President, and Executive Secretary and a National Advisory Board of 3 to 5 members. From I958 until the present, a national Board of Directors has been used that consists of the President, Vice President, Executive Secretary and four to six elected directors. Each individual who has served as a national officer, National Advisory Board member, or national director has contributed years of service to HKN. Many have held numerous positions and have remained active for decades. These individuals are listed below, next to the date of their first election to a national office.

1905	M. L. CARR	1931	C. S. GEORGE	1946	P. C. CROMWELL
1905	E. B. WHEELER	1931	M. S. MASON	1946	P. H. PUMPHREY
1905	C. E. ARMSTRONG	1932	G. H. KELLEY	1947	R. W. FOUSE
1906	A. F. MCKEE	1933	J. M. NEWMAN	1947	F. E. SANFORD
1907	C. C. CARR	1933	E. F. WATSON	1948	J. E. HOBSON
1908	C. T. EVANS	1933	A. F. WEBER	1948	W. J. LYMAN
1909	B. T. ANDERSON	1934	E. P. CARPENTER	1949	E. T. B. GROSS
1909	L. H. HARRIS	1934	C. H. MACDONALD	1949	E. B. KURTZ
1909	A. R. KNIGHT	1934	L. A. SPANGLER	1949	T. W. WILLIAMS
1911	A. H. HEITMAN	1934	R. I. WILKINSON	1951	F. J. HALLENBECK
1912	A. B. ZERBY	1935	N. L. BEST	1951	C. B. HOLT
1913	R. H. WEBB	1935	H. J. SUMMERS	1951	J. M. MONSTREAM
1914	B. F. MILLER	1937	C. A. FAUST	1951	A. NAETER
1915	H. S. COCKLIN	1937	W. J. HERRMAAN	1951	S. R. WARREN
1916	F. A. COFFIN	1937	A. T. JOHNSTON	1952	C. R. AMMERMAN
1917	J. M. STRAIT	1938	M. BUCK	1952	O. W. ESCHBACH
1918	F. T. BANGS	1938	L. A. DOGGETT	1952	G. W. SWENSON
1918	D. G. EVANS	1938	C. B. HOFFMAN	1953	C. T. KOERNER
1918	A. C. GRAYSON	1939	V. E. LOWDEN	1954	E. E. GRAZDA
1918	P. MACGILVARY	1939	H. R. REED	1954	J. G. TARBOUX
1919	J. B. KELLY	1940	B. F. LEWIS	1955	L. DWON
1920	J. M. SPANGLER	1940	M. S. MCILROY	1955	J. W. RITTENHOUSE
1922	G. P. SAWYER	1940	H. N. WALKER	1955	L. W. ROBERTSON
1922	L. F. SEYBOLD	1941	J. J. CASSIDY	1956	C. F. HILL
1922	J. E. ZOLLINGER	1941	H. A. DAUBLY	1957	C. M. HYDE
1923	A. A. HOFGREN	1942	C. C. DASH	1957	R. E. NOLTE
1923	J. W. WEIGT	1942	L. F. HUNT	1957	M. B. REED
1924	F. E. BROOKS	1942	F. M. STARR	1957	J. D. RYDER
1926	M. C. HALE	1943	R. BEACH	1958	J. H. CRAIG
1926	E. S. LEE	1943	F. E. HARRELL	1959	G. T. HARNESS
1928	C. H. REEDER	1944	N. S. HIBSHMAN	1959	J. A. M. LYON
1930	J. S. BELTZ	1945	W. E. KOCK	1959	F. W. NORRIS



Past board directors of Eta Kappa Nu attending the HKN Centennial Banquet in 2004 were recognized for their Contributions.

L to R: Jim D'Arcy, Karl Martersteck, Richard Gowen, Eric Herz, Jim Melsa, Jo Waite, Alan Lefkow, Frank Weimer, Jack Farley, Tom Rothwell, Paul Smith, Don Christiansen, Ron Spanke, Eugene Mleczko, Dave Irwin, Lyle Feisel, Tim Trick, Steven Goodnick, Cecelia Jankowski, and Steve Watkins.

1959	F. TATUM	1972	B. SHEFFIELD	1986	L. H. PARKER
1959	I. D. TILLMAN	1972	D. E. TODD	1987	S. MCCULLOUGH
1959	J. A. TUCKER	1973	E. D. EYMAN	1987	J. MITCHELL
1960	R. C. GORHAM	1973	W. A. KLOS	1988	I. ENGLESON
1960	P. B. JACOB	1973	W. H. PICKERING	1988	D. S. STOICA
1960	J. E. LAGERSTROM	1974	M. D. DODSON	1989	D. G. MEYER
1961	W. B. GROTH	1974	G. R. KANE	1989	J. R. ROWLAND
1961	R. J. KOOPMAN	1974	R. W. LUCKY	1990	B. P. JOHNSON
1961	R. W. SCHLINDER	1974	E. L. STELLE	1990	J. H. SPARE
1962	A. K. HAWKES	1975	C. H. DUNN	1991	B. J. BALL
1962	E. C. LOWENBERG	1975	Q. G. GENNARO	1991	D. T. STEPHENSON
1962	H. H. SHEPPARD	1976	W. J. JOHNSON	1992	R. A. BARTOLINI
1963	G. B. HOADLEY	1976	W. V. T. RUSCH	1992	D. W. LEITTERMAN
1963	E. NOGES	1976	A. R. STOUDINGER	1993	R. I. EGBERT
1963	T. L. ROTHWELL	1977	I. R. BETTEN	1993	R. J. NIEDERJOHN
1964	O. M. SALATI	1977	A. HAUSER	1994	K. E. MARTERSTECK
1964	W. P. SMITH	1977	S. R. PARKER	1994	J. D. WOLF
1964	L. STAUDER	1977	R. L. PHILLIPS	1995	M. SHAHIDEHPOUR
1965	J. E. FARLEY	1978	J. O. KOPPLIN	1995	R. J. GOWEN
1965	A. F. GABRIELLE	1978	R. LUEG	1996	B. R. DEMAEYER
1966	H. L. ABLEN	1978	J. H. MULLIGAN	1996	R. HOELZEMAN
1966	W. D. BONSER	1979	R. G. BENNETTS	1997	J. L. MELSA
1966	J. C. HANCOCK	1979	A. LEFKOW	1997	R. A. SPANKE
1967	G. E. DREIFKE	1979	J. L. WAITE	1998	W. E. HORD
1967	R. A. ERDEY	1980	V. ELERBRUCH	1998	C. R. POLLACK
1967	C. E. HUTCHINSON	1980	H. K. KNUDSEN	2000	C. D. COTTON
1968	L. B. CHERRY	1981	G. BALDERSON	2000	C. A. GROSS
1968	W. K. MACADAM	1981	S. A. WHITE	2000	E. HERZ
1968	C. C. ROGERS	1982	D. CHRISTIANSEN	2000	H. H. KUEHL
1969	E. C. GLOVER	1982	P. HAGOUEL	2001	J. D. IRWIN
1969	M. S. SHEPPERD	1982	R. J. KENNERKNECHT	2001	D. P. SMITH
1970	W. E. MURRAY	1983	N. R. CARSON	2002	B. E. EISENSTEIN
1970	H. C. SLOCUM	1983	J. D'ARCY	2002	A. S. BROWN
1970	M. VANVALKENBURG	1984	R. COCKRUM	2002	J. CHOMA
1970	L. W. ZELBY	1984	A. J. ELISSON	2002	T. TRICK
1971	N. H. FARHAT	1984	M. R. HAJNY	2003	D. E. BORTH
1971	O. W. MUCHENHIRN	1985	A. L. ARNOLD	2003	L. D. FEISEL
1971	F. C. WEIMER	1985	E. L. MLECZKO	2004	S. M. GOODNICK
1972	C. M. BUTLER	1986	R. F. AREHART	2004	C. JANKOWSKI
1972	R. S. MACMILLEN	1986	J. L. DELCROIX	2004	S. E. WATKINS

ETA KAPPA NU

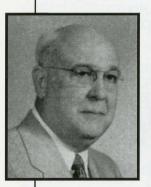
Executive Secretaries of HKN

n the early days of the association there was no central operating office. Each officer did his part from his home or place of business. When the official position of Executive Secretary was established in 1928, a more permanent location began to take hold. Later L. A. Spangler set up a temporary office in Chicago, Illinois, so the records were shipped to that location. Subsequently, A. B. Zerby established the first permanent headquarters in Winkinsburg PA, and later in Dillsburg, PA.

The responsibilities of the executive secretary are many and broad in scope. The executive secretary is in charge of all corporate matters and filings, all financial aspects including deposits of membership dues and payment of all expenses, all taxes and IRS reports, recording all membership data and issuing certificates, editing and publishing the Bridge Magazine, communication with all members, chapters and faculty advisors, and preparing for and facilitating national board meetings to name a few. They are the Chief Operating Officer for the organization. Carrying out these duties in the manner required for the good of the Association necessitates special skills and dedication of the kind A. B. Zerby and others gave mostly voluntarily to Eta Kappa Nu. The finances of the organization have only allowed a part-time compensation for their duties, with many additional hours being put in on a volunteer basis. With the new constitution in 2002, the Executive Secretary position was eliminated from the Board, and replaced with an Executive Director as an employee reporting to the Board of Directors.

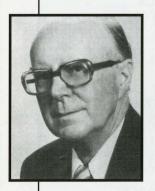
1928-31 J. A. Umhoefer

1931-34 Leyland. A. Spangler



1934-58 Alton B. Zerby, Epsilon '10 After graduation, A.B. joined the Pennsylvania alumni chapter and immediately began working on national affairs. He was elected national treasurer in 1912, national VP and Bridge editor in 1913-14, and national president in 1914-15. In 1918, when Leslie Harris was called to active duty, A.B. took over as national secretary and held that position until 1928. He served six years on the NAB and was then elected Executive Secretary in 1934. As

Executive Secretary, he expanded the organization from 11 to 66 chapters, and conducted personal visits to all chapters. He became known nationally as "Mr. Eta Kappa Nu" and was the first recipient of the Distinguished Service Award in 1971.



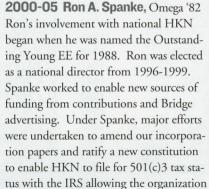
Paul was appointed faculty advisor to Alpha Chapter in 1952, a position he held until he was elected as national executive secretary in 1958. He served as Executive Secretary from 1958-1988 and as editor of *The Bridge* from 1963-1988. As executive secretary he expanded the organization to 180 chapters and implemented a regional visitation program and several award programs including the outstanding EE student, out-

standing teacher award and Distinguished

Service Award. He started the concept of the endowment funds which grew from zero to over \$200,000. Paul is remembered by many for his prolific writing and creative covers for *The Bridge*.

1988-99 J. Robert Betten, Nu '55 After completing his term as HKN president, Betten stepped in to take over the HKN executive secretary position after the death of Paul Hudson in 1988. Under Betten the HKN national office relocated from the University of Illinois to the University of Missouri-Rolla where Betten was an EE Professor. The number of total chapters expanded under Betten from 180 to 206, however, many other existing chapters became inactive and ceased to

induct new members during this period, leaving only about 140 active chapters. Betten led HKN through increasingly difficult financial times during the 1990s due to decreasing numbers of student members until he was asked to resign in 1999.



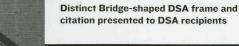
to receive tax deductible contributions. The Bridge Magazine has a new look and feel and color cover. Spanke led efforts to computerize the HKN membership data and Bridge subscriber data that was previously available only on paper forms in the HQ office. Five new chapters have been installed and over 30 inactive chapters have been revived.



In recognition of dedicated service and long-term contributions to Eta Kappa Nu that have resulted in significant benefits for all members

Distinguished Service Award Recipients

		Year Received	Years of Service
	Alton B. Zerby	1971	47
	Roger I. Wilkinson	1972	61
	Clifford A. Faust	1973	10
	C. Holmes MacDonald	1974	41
	Carl T. Koerner	1975	44
	Larry Dwon	1976	70
	Edwin B. Kurtz	1977	44
	Everitt S. Lee	1978	43
	Leyland A. Spangler	1978	40
	John E. Farley	1979	56
	Paul K. Hudson	1979	38
	Berthold Sheffield	1981	41
	Marcus Dodson	1983	55
	Tony Gabrielle	1985	54
	Thomas L. Rothwell	1999	51
	John A. Tucker	2000	51
	Donald Christiansen	2001	31
	Alan Lefkow	2002	39
	Robert F. Arehart	2003	53
	James A. D'Arcy	2004	32
_			



The Eta Kappa Nu Distinguished Service Award

Eta Kappa Nu created the Distinguished Service Award (DSA) in 1971 to recognize those individuals who have made significant contributions to the society throughout their life. The background for this important activity began in 1939 when founder Maurice L. Carr wrote "Eta Kappa Nu grew because there have always been many members who were willing and eager to serve it loyally and unselfishly. I would like to see some form of recognition conferred upon members who have rendered such service to HKN." The board of directors approved the DSA recognition in 1971.

The DSA charter now limits this award to at most one individual per year. The DSA award committee is comprised of all living past recipients of the DSA award plus the current HKN national president.

Reflections from the DSA Committee Chair:

It is fitting to reflect on the effort that con-

tributed to HKN's success during its first one hundred years of life. Members who have been willing and eager to serve it loyally and unselfishly in an extra-ordinary way have been honored with the Distinguished Service Award, DSA. Their names are listed here along with the year in which they received the awad and their years of continuous service to HKN. It is observed that this small group of 20 members contributed over 900 years of distinguished service or an average of 45 years each.

It is my fervent hope that HKN is similarly or even better blessed with loyal and unselfish volunteers in the next IOO years. It will largely depend on high quality selection of new members, motivation by faculty advisors and an environment on campus that encourages voluntary service as part of the education received by young Eta Kappa Nu members. The career success obtained by members listed here attest to the value of voluntary effort.

-Larry Dwor



Centennial TRIBUTE

to Eminent Members of HKN

ta Kappa Nu established the rank of Eminent Member in 1950 as the society's highest membership classification, to be conferred upon those select few whose technical attainments and contributions to society through leadership in the field of electrical and computer engineering have resulted in significant benefits to all. These individuals display distinguished and inspirational profiles in engineering leadership.

Vannevar Bush	1950	Chauncey Starr	1960	Nick Holonyak, Jr.	1998
Royal W. Sorensen	1950	Arthur D. Moore	1961	Gene Amdahl	1999
Vladimir K. Zworykin	1950	John L. Burns	1961	William Hewlett	1999
Frederick E. Terman	1951	James Hillier	1961	C. Lester Hogan	1999
Joseph Slepian	1951	Charles F. Wagner	1961	Jacob Rabinow	1999
Karl B. McEachron	1951	John Bardeen	1962	Robert A. Frosch	2000
Soren H. Mortenson	1951	Lloyd V. Berkner	1962	Wilson Greatbatch	2000
William H. Timbie	1951	Edward M. Purcell	1962	Leo L. Beranek	2000
Lee DeForest	1952	Jerome B. Wiesner	1962	George H. Heilmeier	2000
Edward C. Molina	1953	Ernst Weber	1962	John R. Whinnery	2000
Harold Pender	1953	Gordon S. Brown	1963	Thelma Estrin	2000
Charles A. Powel	1953	William L. Everitt	1963	Ivan A. Getting	2000
Philip Sporn	1953	Lee A. Dubridge	1964	Charles H. Townes	2000
Walter R.G. Baker	1954	Julius A. Stratton	1964	Norman R. Augustine	2001
Mervin J. Kelly	1954	Donald G. Fink	1965	Charles Concordia	2001
Reinhold Rudenberg	1954	Simon Ramo	1966	Edward E. David, Jr.	2001
James B. Black	1954	Winston E. Kock	1966	Roland W. Schmitt	2001
Andrew A. Potter	1954	George H. Brown	1967	Mischa Schwartz	2001
Ellery B. Paine	1954	William H. Pickering	1968	John Brooks Slaughter	2001
Everett S. Lee	1954	Harold E. Edgerton	1968	James L. Flanagan	2001
Ernst F. W. Alexanderson	1955	Emanuel R. Piore	1969	Malcolm R. Currie	2001
Alfred N. Goldsmith	1955	Patrick E. Haggerty	1969	Donald O. Pederson	2001
Harold S. Osborne	1955	Walker Lee Cisler	1969	John R. Pierce	2001
Harry A. Winne	1955	Edgar. L. Kanouse	1970	Amar G. Bose	2002
John B. Whitehead	1955	Edward C. Jordan	1974	J. Fred Bucy	2002
Harold H. Beverage	1955	Eric T. B. Gross	1976	Andrew Sage	2002
Leslie Newman McClellen	1955	Edward A. Erdelyi	1978	Richard J. Gowen	2002
William D. Coolidge	1956	Larry Dwon	1984	Eberhardt Rechtin	2002
Harry Nyquist	1956	Howard Sheppard	1984	Donald R. Scifres	2003
Leon N. Brillouin	1956	Samuel Reid Warren	1984	Jerome J. Suran	2003
John Howard Dellinger	1956	Donald Christiansen	1985	Irwin M. Jacobs	2003
William B. Kouwenhoven	1956	Marcus Dodson	1986	Henry Bachman	2004
Donald A. Quarles	1958	William E. Murray	1987	Arthur Stern	2004
Clifford F. Hood	1958	Berthold Sheffield	1993	Walter Jeremiah Sanders	2004
Philip L. Alger	1960	Robert W. Lucky	1993		

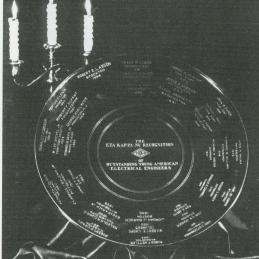
THE VLADIMIR KARAPETOFF **ACHIEVEMENT AWARD**



his major Eta Kappa Nu award for career technical achievement is made annually to an electrical engineering practitioner who has distinguished him/herself through an invention, a development, or a discovery in the field of electrotechnology which resulted in significant benefits to humankind. The award is named for the late Vladimir Karapetoff, a distinguished scientist, electrical engineer, musician, and prominent member of Eta Kappa Nu. Dr. Karapetoff was born in St. Petersburg, Russia, in 1876 and emigrated to the U. S. in 1902, becoming a naturalized citizen in 1909. He joined the engineering faculty of Cornell University in 1904, and remained there until retirement in 1939. In addition to his engineering and teaching accomplishments, Dr. Karapetoff was a musician and musical inventor, and received an honorary Doctor of Music degree from the New York College of Music. The award was established by the HKN Board of Directors in 1992. The fund to support the award was initiated through a bequest from Dr. Karapetoff's widow, Rosalie M. (Cobb) Karapetoff, herself a distinguished chemical engineer.

1992	Wilson Greatbatch, for the implantable pacemaker
1993	George H. Heilmeier, for liquid crystal displays
1994	Nick Holonyak, Jr, for solid state lasers and light emitters
1995	John Moll, for his work in solid state physics and his mathematical analysis of transistor amplification
1996	Harold A. Heeler, for the automatic volume control circuit and his pioneering work in radio and television
1997	Jerry M. Woodall, for GaAlAs inventions and developments
1998	Al Gross, for pioneering contributions to the engineering of personal wireless communications
1999	Jack St. Clair Kilby, for development of the integrated circuit
2000	Amos E. Joel, Jr , for pioneering developments and teaching in the field of telephone switching and electronic switching systems
2001	C. Gordon Bell, for developments in computer architecture
2002	Robert H. Dennard, for his invention of the one transistor DRAM memory cell
2003	Bernard C. DeLoach, for technical contributions to the fields of microwaves and optics
2004	Yau Chau Ching, for development of the Synchronous Optical Network (SONET)

OUTSTANDING Young Electrical Engineer AWARDS



Engraved OYFF how! started in 1936 which is engraved annually with the name of each OYFF winner

s evidenced by their past records and future promise, the OYEE recognition shall be given annually to young electrical and computer engineering graduates for meritorious service in the interest of their fellow men. Started in 1936, the Eta Kappa Nu OYEE recognition was created to "emphasize among electrical engineers that their service to mankind is manifested not only by achievements in purely technical pursuits but in a variety of other ways. It holds that an education based upon the acquisition of technical knowledge and the development of the logical methods of thinking should fit the engineer to achieve substantial success in many lines of endeavor." Candidates must not be more than 36 years old at the time of the award. Beginning with the centennial year, the name of the award is changing to the Outstanding Young Electrical and Computer Engineer recognition.

Since 1936, 68 young engineers have received the award and 143 engineers have received honorable mentions. The award is given on the basis not only of what success the young electrical engineers have had in their vocation, but also what they did to broaden themselves culturally and what they have done for others. Many past recipients have gone on to make profound impacts on our society and many are some of America's leading electrical engineering teachers and administrators. A review of what these engineers have accomplished since graduation is astounding.

1936	F. M. Starr	1953	P. A. Abetti	1970	J. B. Farison	1987	J. G. Frohlich
1937	C. G. Suits	1954	R. F. Mettler	1971	E. R. Berlekamp	1988	R. A. Spanke
1938	W. E. Kock	1955	W. E. Chope	1972	G. P. Shuraym	1989	S. M. Yuen
1939	L. A. Meacham	1956	J. J. Baruch	1973	J. T. La Macchia	1990	C. Jankowski
1940	J. R. Hobson	1957	R. P. Crago	1974	H. J. Hovel	1991	C. J. Chang-Hasnair
1941	C. Brunetti	1958	M. R. Currie	1975	D. J. Melvold	1992	P. O. Nunally
1942	J. R. Pierce	1959	E. A. Sack, Jr.	1976	C. S. Hartmann	1993	W. W. Hwu
1943	N. I. Hall	1960	K. H. Olsen	1977	J. G. N. Henderson	1994	K. E. Ismail
1944	R. W. Porter	1961	C. J. Baldwin, Jr	1978	R. E. Birney	1995	P. Cosentino
1945	J. M. Wallace	1962	J. T. Duane	1979	R. G. Cornell	1996	S. T. Acton
1946	E. M. Williams	1963	D. C. Forster	1980	J. E. Russell, Sr.	1997	F. M. Chiussi
1947	R. R. Hough	1964	W. L. Shevel, Jr	1981	T. R. Gheewala	1998	Y-Q Zhang
1948	A. R. Zarem	1965	E. M. Davis, Jr.	1982	C. R. Johnson, Jr.	1999	C. M. DeCusatis
1949	R. C. Cheek	1966	M. H. Lewin	1983	B. F. Fitzgerald	2000	K. Ramaswamy
1950	D. P. Campbell	1967	R. R. Elfant	1984	W. E. Moerner	2001	T. L. Olsen
1951	L. G. Gitzendanner	1968	G. H. Heilmeier	1985	M. G. Adamiak	2002	M. H. Lipasti
1952	J. B. N. Granger	1969	R. E. Larson	1986	M. Keith	2003	A. Emadi

The C. Holmes MacDonald

OUTSTANDING TEACHER AWARD

he Outstanding Teacher Award was established to recognize excellence in teaching of Electrical and Computer Engineering Students and to improve Faculty-Student-Alumni relations. The award was conceived by the Philadelphia Alumni Chapter and was first presented for the 1972 academic year.

Originally titled the Distinguished Young E.E. Teacher Award, the name of the award was later changed to recognize Dr. C. Holmes MacDonald after his death in 1975, whose many contributions to Eta Kappa Nu included serving as Chair of the National Activities Board, as National Director, finance committee and financial counselor, HKN representative to the Association of College Honor Societies, and his instrumental work in helping to establish the HKN Outstanding Teacher Award

The award recognizes the central and crucial role of college professors in educating and motivating future engineers and is presented annually to outstanding young Electrical or Computer Engineering teachers under age 35 who have demonstrated, early in their careers, special dedication and creativity in their teaching responsibilities, in addition to professional activities, service to the community, and cultural development. Letters of recommendation are required from at least one student and two professional associates.

There have been 28 winners and 38 honorable mentions named throughout the history of the award. The recipient is honored with a certificate and a plaque from the National Board of Directors. Nomination forms are mailed to all chapters annually, and can also be obtained from HKN headquarters.

1972	Dr. Charles Vincent Smith	University
1973	Dr. James Heinin	Marquette l
1974	Dr. Lloyd J. Griffiths	University of
1975	Dr. Bruce A. Eisenstein	Drexel Univ
1976	Dr. Stanley R. Liberty	Texas Tech
1977	Dr. John E. Fagan	University of
1978	Dr. Russell J. Niederjohn	Marquette l
1979	Dr. Peter S. Maybeck	Air Force In
1980	NO AWARD GIVEN	
1981	Dr. Richard O. Claus	Virginia Pol
1982	Dr. C. Richard Johnson	Cornell Univ
1983	NO AWARD GIVEN	
1984	Dr. Andrew J. Blanchard	University of
1985	NO AWARD GIVEN	
1986	Dr. A. Richard Newton	Univ. of Cal
1987	Dr. David G. Meyer	Purdue Univ
1988	Dr. Clifford R. Pollock	Cornell Univ
1989	NO AWARD GIVEN	
1990	Dr. Mohammad Shahidehpour	Illinois Insti
1991	Dr. Moshe Kam	Drexel Univ
1992	Dr. Barry W. Johnson	University of
1993	Dr. Denice Dee Denton	Univ. of Wis
1994	Dr. Bruce L. Walcott	University o
1995	Dr. Jo Dale Carothers	University o
1996	Dr. John D. Cressler	Auburn Univ
1997	Dr. Wen-Mei Hwu	University o
1998	Dr. Aleta M. Ricciardi	University o
1999	Dr. Richard G. Baraniuk	Rice Univers
2000	Dr. Sheila S. Hemami	Cornell Univ
2001	Dr. Richard R. Shultz	University o
2002	Dr. Noel N. Schulz	Mississippi

Dr. Daryl G. Beetner

University of Texas at Arlington University of Colorado versity University of Oklahoma University nstitute of Technology

ly. Institute iversity

of Texas at Arlington

lifornia at Berkeley versity iversity

titute of Technology versity of Virginia sconsin at Madison of Kentucky of Arizona iversity of Illinois-Urbana of Texas at Austin rsity versity of North Dakota Mississippi State University University of Missouri-Rolla

THE ALTON B. ZERBY AND CARL T. KOERNER

OUTSTANDING Electrical Engineering Student AWARDS



The OECES award program recognizes selected students each year who typify the best balance of scholarship, service activity, leadership, and character. Inaugurated in 1965 as the Outstanding EE Student Award Program of HKN, its name was changed in 1975 to "The Alton B. Zerby Outstanding EE Student Award" to honor and perpetuate the memory of Mr. Zerby, a long-time leader and Executive Secretary of HKN. In 1993, the name was further changed to include Carl T. Koerner, to honor and perpetuate the memory of Mr. Koerner, who had a lifelong dedication to HKN, including serving as President and recipient of the HKN Distinguished Service Award. In 2003 the name of the award was expanded to include electrical and computer engineering.

The OECES award is administered by the Los Angeles Area HKN Alumni chapter. The award winner's travel and expenses are covered by financial support from the Alton B. Zerby Memorial Fund. An honorarium for the winner is made possible by the Carl T. Koerner Memorial Fund, established in 1978 by his widow Edie Koerner and friends.

Will be					
1965	Carl Anthony Cooper	Univ of S. California	1987	Lonnie D. Chrisman	Univ of CA - Berkeley
1966	Thomas L. Thomas	Ohio State Univ		& Penny M. Gilbertson	Montana State Univ
1967	Douglas F. Johnstone	Purdue Univ	1988	Emy Tan	Univ of Illinois-Urbana
1968	Donald Alan Hanson	Univ of Illinois-Urbana	1989	Patrick S. Kennedy	Milwaukee School of Eng
1969	Thomas L. Niemeyer	Ohio State Univ	1990	Ashok Kumar	Univ of Washington
1970	Robert W. Alford	Univ of TX - Arlington	1991	Geoffrey W. Burr	State Univ of NY - Buffal
1971	Alan M. Usas	Princeton Univ	1992	Paul D. Anderson	Tennessee Tech Univ
1972	Noel H. Runyan	Univ of New Mexico	1993	Brad D. Marshall	Kansas State Univ
1973	John B. Gordon	Univ of TX - Austin	1994	Lillian Chiamin Ho	Univ of Texas - Austin
1974	Steven R. Brammer	Univ of TX - Arlington	1995	Andrew L. Sears	Univ of Missouri - Rolla
1975	William Mumford, III	Oregon State Univ	1996	Jovan D. Milosavljevic	Univ of NY - Stony Brook
1976	Allen D. Elster	Vanderbilt Univ	1997	Louis R. Litwin, Jr.	Drexel Univ
1977	David D. Welter	Univ of New Mexico	1998	Jeffry T. Ross	Northeastern Univ
1978	Douglas R. Kraul	Georgia Inst of Tech	1999	Raymond Wang	Univ of CA - Berkeley
1979	Max W. Hauser	Univ of CA -Berkeley	2000	Wesley J. Bolsen	Rose-Hulman Inst of Tec
16.31	& Louise A. Veilleaux	Univ of Maine	2001	Kendall S. Ching	Univ of Hawaii-Manoa
1980	Mark David Vanstrum	Auburn Univ		& William F. Thies	MIT
1981	Gary L. Sonnier	Univ of SW Louisiana	2002	Shadab N. Mozaffar	Univ of Kansas
1982	Richard L. Goodson	Univ of Alabama	2003	Aaron T. Ohta	Univ of Hawaii - Manoa
1983	Steve E. Watkins	Univ of Missouri-Rolla	2004	Matthew C. Rodrigue	Univ of Maine
1984	Michael J. Hargraves	Ohio Univ		& Matthew R. Behrend	Univ of S. California
1985	Yvonne M. Utzig	CA State Poly-Pomona			
1986	Charles A. Bier	Rice Univ			
	& Dick P. Welch	Univ of Illinois - Urbana			

THE NORMAN R. CARSON

OUTSTANDING Electrical Engineering Junior

The Outstanding Electrical Engineering Junior Award was established by Eta Kappa Nu in 1984 in order to recognize student leadership in addition to academic and technical excellence. The goal is to encourage students to develop leadership skills before they enter the job market. Thus, this award strives to acknowledge those students who have demonstrated their ability to lead, persuade, and influence the actions of others in addition to their diligence, intelligence and technical competence. Other considerations are community service and well-roundedness. The award covers activities up to and including the nominee's Junior year and applications are submitted during the Spring Semester of each year.

The Outstanding Junior EE award is presented annually and is administered by the Lone Star Alumni Chapter of Austin, Texas. Since its inception, I7 students have received this award. Over 30 students were honored as runners-up and over 60 students received honorable mention. The award is named for Norman R. Carson, who served on the HKN National Board of Directors from 1983 to 1985 and worked to define and implement the award program. The Outstanding Junior award consists of \$500 and a certificate. The fund to support the award was a gift from Mr. and Mrs. Norman R. Carson.

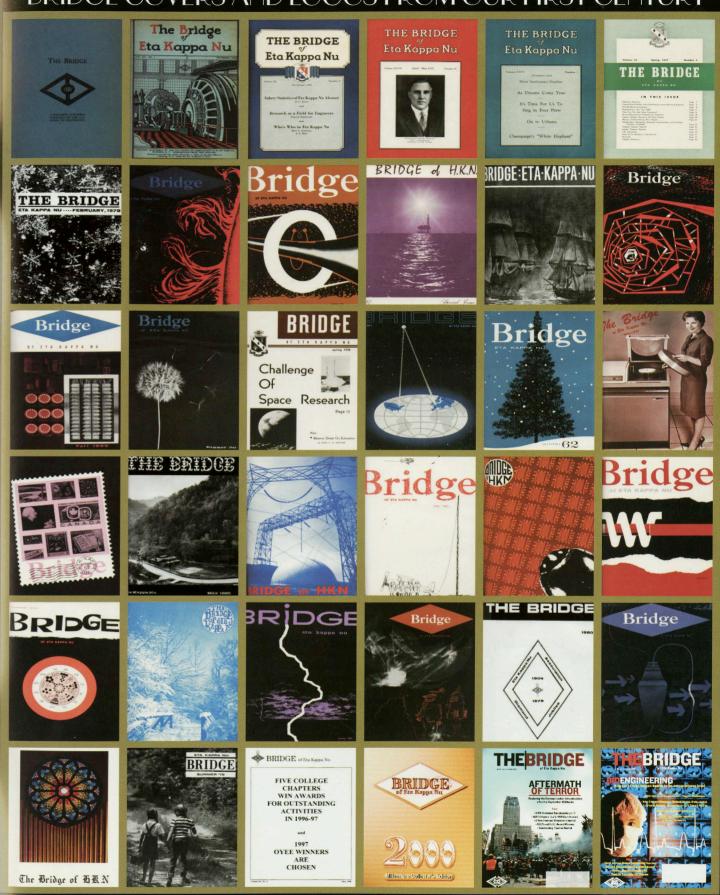
	YEAR	NATIONAL WINNER	CHAPTER	UNIVERSITY
	1985	Roger A. Davidson	Epsilon Eta	Rose-Hulman Institute of Technology
	1986	John M. Steinke	Theta Rho	Rice University
	1987	Spencer Green	Theta Rho	Rice University
	1988	Mark Harold Somerville	Psi	University of Texas - Austin
	1989	Stephen A. Boppart	Alpha	University of Illinois
	1990	Geoffry W. Burr	Zeta Pi	State University of New York - Buffalo
	1991	Tracey Lynn Wallen	Delta Pi	Colorado State University
	1992	Susan Carol Gagness	Beta Tau	Northwestern University
	1993	Kenton L. Epard	Beta Kappa	Kansas State University
	1994	Andrew L. Sears	Gamma Theta	University of Missouri-Rolla
,	1995	Michelle C. Munson	Beta Kappa	Kansas State University
	1996	Ryan James Mattison	Nu	Iowa State University
	1997	Ashwin Viswanathan	Beta Theta	Massachusetts Institute of Technology
	1998	Jaime Ann Melanson	Beta Xi	University of Oklahoma
	1999	Wesley J. Bolsen	Epsilon Eta	Rose-Hulman Institute of Technology
	2000	Kevin Frederick	Sigma	Carnegie Mellon University
	2002	Joseph Tobias Case	Gamma Theta	University of Missouri - Rolla

OUTSTANDING **Chapter Activities Award**

The Outstanding Chapter Activities Award is presented annually to the chapter having the best overall programming and activities. Most active chapters serve their fellow students, department, school, and community in many ways. For some chapters, their level of service to others is very significant.

1932-33	Gamma	Ohio State University	1970-71	Gamma Xi	University of Maryland
1933-34	Beta	Purdue University	1971-72	Gamma Xi	University of Maryland
1934-35	Pi	Oregon State University	1972-73	Omega	Oklahoma State University
1935-36	Карра	Cornell University	1973-74	Gamma Chi	New Mexico State University
1936-37	Omega	Oklahoma State University	1974-75	Gamma Chi	New Mexico State University
1937-38	Epsilon	Pennsylvania State University	1975-76	Gamma Chi	New Mexico State University
1938-39	Sigma	Carnegie Mellon University	1976-77	Gamma Theta	University of Missouri-Rolla
1939-40	Delta	Illinois Institute of Technology	1977-78	Beta	Purdue University
1940-41	Beta Zeta	New York University	1978-79	Xi	Auburn University
1941-42	Карра	Cornell University	1979-80	Xi	Auburn University
1942-47	No Awards Made	(World War 2)	1980-81	Gamma Theta	University of Missouri-Rolla
1947-48	Delta	Illinois Institute of Technology	1981-82	Beta	Purdue University
1948-49	Delta	Illinois Institute of Technology	1982-83	Beta	Purdue University
1949-50	Beta Pi	City College of New York	1983-84	Beta	Purdue University
1950-51	Beta	Purdue University	1984-85	Beta	Purdue University
1951-52	Beta Alpha	Drexel University	1985-86	Beta	Purdue University
1952-53	Beta Alpha	Drexel University	1986-87	Beta	Purdue University
1953-54	Gamma Theta	University of Missouri-Rolla	1987-88	Beta	Purdue University
1954-55	Gamma Theta	University of Missouri-Rolla	1988-89	Beta	Purdue University
1955-56	Upsilon	Univ of Southern California	1989-90	Beta	Purdue University
1956-57	Beta Nu	Rensselaer Polytechnic Inst	1990-91	Beta	Purdue University
1957-58	Gamma Theta	University of Missouri-Rolla	1991-92	Beta	Purdue University
1958-59	Gamma Theta	University of Missouri-Rolla	1992-93	Beta	Purdue University
1959-60	Gamma Theta	University of Missouri-Rolla	1993-94	Beta	Purdue University
1960-61	Beta Epsilon	University of Michigan	1994-95	Beta	Purdue University
1961-62	Gamma Theta	University of Missouri-Rolla	1995-96	Alpha	Univ. of Illinois - Urbana
1962-63	Beta Pi	City College of New York	1996-97	Beta	Purdue University
1963-64	No National Winner		1997-98	Beta	Purdue University
1964-65	Rho	University of Colorado	1998-99	Beta	Purdue University
1965-66	Beta Pi	City College of New York	1999-00	Beta	Purdue University
1966-67	Beta Pi	City College of New York	2000-01	Beta	Purdue University
1967-68	Gamma Xi	University of Maryland	2001-02	Mu	Univ of California - Berkeley
1968-69	Beta Alpha	Drexel University	2002-03	Mu	Univ of California - Berkeley
1969-70	Gamma Gamma	Clarkson College of Tech			

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