1936 1986
A HISTORY OF THE ETA KAPPA NU
OUTSTANDING YOUNG ELECTRICAL ENGINEER AWARD

Eta Kappa Nu
The names of all 50 Outstanding Young Electrical Engineers are inscribed on the front and back of this brass bowl. The bowl is under the custodianship of the IEEE Center for the History of Electrical Engineering.

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A Brief History of Eta Kappa Nu

On Sept. 23, 1904, two students at the University of Illinois met on the steps of the campus engineering building to discuss forming Eta Kappa Nu, the national electrical engineering honor society. One of the students, Maurice L. Carr, later recalled that their one enthusiastic agreement had been that such a society was needed; their views on exactly what the organization would achieve varied widely.

Five weeks later the founding group was complete. Besides Mr. Carr, it consisted of Charles E. Armstrong, Ralph E. Bowser, Carl K. Brydges, William T. Burnett, Hibbard S. Greene, Frank R. Winders, Edmund B. Wheeler, Milton K. Akers, and Fred D. Smith.

Eta Kappa Nu originally was to help electrical engineering graduates find jobs and in other ways gain a foothold in their careers. The idea was not to have a scholarship requirement alone. As Maurice Carr stated it:

“We did not propose to ignore scholastic standing entirely; but we did not propose to debar a good man because he was not a good student in all subjects. Again, we would not have taken in a man who was failing in several engineering subjects.”

The association settled finally on qualifications for membership that exist to this day: The student must be in the upper fourth of his junior electrical engineering class or the upper third of his senior class, requirements which are sometimes tightened. Other qualifications relate to ingenuity, practical innovation, imagination, and problem-solving ability.

As for the purpose of the organization, what emerged over the years was an amalgam of many suggestions. The association has proved an incentive to excel by recognizing the achievements of both students and working engineers. It has established rapport among faculty members, students, and alumni, and has encouraged engineers to become well-rounded.

The association's goal has changed throughout the years to fit the times, as three long-time active members of Eta Kappa Nu agreed when they met in 1979, on the occasion of the 75th anniversary of Eta Kappa Nu. The three were Larry Dwo, the official historian, Berthold Sheffield, national publicity chairman of the association, and Roger I. Wilkinson, founder of the Outstanding Young Electrical Engineer Award. During the Depression of the 1930s Eta Kappa Nu's goal—especially in the alumni chapters—was to help its members find work, the three recalled, adding that the period was one they remembered with much warmth.

To function as more than just an honor society, Eta Kappa Nu members have served not only the electrical engineering profession, but society as a whole. Beginning with the college chapters, members are encouraged to carry out a variety of productive activities. The alumni chapters have a dual obligation: to help fellow members in their professional lives and to guide college chapters.

The awards that Eta Kappa Nu presents annually cut a wide swath in the field of electrical engineering. They include the following:

* Outstanding Young Electrical Engineer Award—This award is given by the New York Alumni Chapter to an engineer whose technical contributions and service to humanity have both been outstanding.
* Outstanding College Chapter Award—To stimulate interest in chapter activities and recognize high attainments, the New York Alumni Chapter gives this award to an undergraduate chapter.
* Alton B. Zerby Award—One electrical engineering student in the United States is chosen as “the most outstanding.”
* C. Holmes MacDonald Award—This award is given to an outstanding young electrical engineering professor by the Philadelphia Alumni Chapter.
* Distinguished Service Award—Begun in 1971, this award is intended for a member of Eta Kappa Nu “who has truly rendered outstanding service to the association on a continuing basis and for a relatively long period of time.”
* Eminent Membership—This recognition may be offered “only to those individuals who, by their technical attainment and contributions to society, have shown themselves to be outstanding leaders in the field of electrical engineering and great benefactors of their fellowmen.”

Eta Kappa Nu’s initiation ritual stresses character development. Members must be willing to undertake hard work—even disagreeable work.

“Do not make the false assumption that the world owes you a living,” the initiate is told. “On the contrary, by virtue of your superior talents and extensive training, you owe it to your fellow-men to aid and assist them whenever they need something that is within your power to give. Do not immediately complain about an uninteresting or routine job. Make the most of the materials you have at hand, and strive always to produce as creditable a product as is possible.”

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Adapted from the article “The secret society that never was,” by John F. Mason, IEEE Spectrum, [September 1979, p. 55], with additions by many 50th Anniversary Committee members—notably Larry Dwo, Berthold Sheffield, and Howard H. Sheppard.
The Founding of the Award

Those who were there remember it as the decade of the Great Depression.


On April 24, 1933, Roger called the committee together for the first time, and its members discussed several award possibilities. Then on May 25, the committee met again and Roger proposed this first cut at the now-famous Award:

"The Award of Distinction will be given annually by the New York Alumni Chapter of Eta Kappa Nu to the Eta Kappa Nu member who within (number of years to be specified) after graduation (or initiation) has contributed in greatest measure to the enjoyment of living for his fellows, and to the general advancement of civilization."

With inputs from other committee members, and in particular from A. R. Chappelka, the Award was defined in its present form. As in the case of any worthy project, suggestions for a variety of modifications had been made by both committee members and others before agreement on the final format. Roger himself and Alton Zerby, executive secretary of Eta Kappa Nu, explained and promoted the concept of the Award as they travelled the chapter circuit, and in 1936 the National Executive Council of Eta Kappa Nu approved the establishment of the Award. In its final and present form, the Award charter reads:

The Eta Kappa Nu Recognition is awarded 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. Eta Kappa Nu holds that an education based upon the acquisition of technical knowledge and the development of logical methods of thinking fits the engineer to achieve substantial success in many lines of endeavor.

As evidenced by their past records and future promise, this Recognition shall be given annually to young electrical engineering graduates for meritorious service in the interests of their fellowmen as well as for outstanding achievements in their chosen profession.

Any person who on May 1 of each year has been graduated not more than ten years from a specified baccalaureate program, and who has not reached his/her 35th birthday, shall be eligible for the Recognition. A candidate must be: a graduate from an approved program in electrical engineering (not electrical technology or engineering technology) from which a BSEE, BEE, or the equivalent has been granted; or a graduate from an approved masters or doctoral program in electrical engineering which grants an MSEEE or PhDEE or equivalent degrees.

The graduates are evaluated for:

- Career achievements of note, including inventions of devices or circuits, improvements in analysis, discovery of important facts or relationships, development of new methods, exceptional results in teaching, outstanding industrial management, or direction of research and development.
- Service to community, state or nation, as for example activity in philanthropic, charity, or social enterprises, leadership in youth organizations, or engagement in civic or political affairs.
- Cultural or esthetic development, including notable work done in the fine arts, architecture or drama, or studies in historical, economic or political fields.
- Other noteworthy accomplishments including participation in professional societies and other organizations.

It early became evident that many of the winners of the Award, as well as others associated with the Award, were talented in the playing of some musical instrument, and so it became traditional to ask one or more of the winners, or, perhaps, a member of the organizing committee, to perform at the Annual Award Dinner.

Thus, it was not surprising at one award ceremony to find Vladimir Karapetoff, the eminent Cornell professor of electrical engineering, scheduled to perform as solo pianist. It was on the occasion of what was undoubtedly the longest Award program ever—one which lasted until 2 a.m. Prof. Karapetoff's turn came at about midnight, and he volunteered that, in the interest of time, he would start but not finish his performance of, appropriately, Schubert's "Unfinished Symphony."

On less time-stressed occasions, outstanding awardees have entertained their colleagues on instruments as unusual as the tuba (Frederick Young), others included the electronic organ (Winston Kock), the violin (Larned Meacham and Simon Ramo), and the guitar. Although Morton H. Lewin was an orchestra conductor, he did not bring one to the awards ceremony!

Historian Dwon recently analyzed more than 900 nominees' dossiers that had been submitted since the award was originated. He observed in the candidates a great capacity for and a genuine willingness to work hard, a strong desire to educate themselves over a wide spectrum of interests, an ability to set and pursue goals early in their careers, an ability to maximize their innate abilities, a facility for gaining cooperation from others, and a selflessness reflected in the contributions to society.

Interested parties are referred to a history of Eta Kappa Nu compiled by Larry Dwon in 1976. For information on availability, contact Prof. Paul K. Hudson, Executive Secretary, Eta Kappa Nu Headquarters, P.O. Drawer 2982, Station A., Champaign, Ill. 61820-8982.
Roger Wilkinson graduated with honors in electrical engineering from Iowa State University in 1924. There he was elected a member of Eta Kappa Nu, Tau Beta Pi, Phi Kappa Phi, and Pi Mu Epsilon.

At graduation he joined Northwestern Bell Telephone Co., and later the Department of Development and Research for AT&T. In 1934 he joined Bell Laboratories. During World War II he was a consultant to the War Department and earned the Presidential Medal of Merit for his studies of radar under combat conditions. He was elected a Fellow of the IEEE "for contributions to the application of probability and statistics in the engineering of communications systems."

Roger was presented the Eta Kappa Nu Distinguished Service Award for his years of dedicated contribution to the society.

He will be remembered for his unique legacy—the Eta Kappa Nu Outstanding Young Electrical Engineer Award.
1936 Winner: Frank M. Starr
For his exceptional contributions to the design, operation and comparative economics of electrical power distribution, and his wide interest in philosophy and art

Honorable Mention:
Peter L. Bellaschi
Honorable Mention:
Eugene W. Boehne
Honorable Mention:
Anatoli C. Seletzky
Honorable Mention:
Cyril G. Veinott

1937 Winner: Chauncey Guy Suits
For his distinguished research in electric circuit theory and high voltage arcs, combined with exceptional contributions to the enjoyment and pleasure of his fellow men

Honorable Mention:
Leonard L. Carter
Honorable Mention:
Philo T. Farnsworth
Honorable Mention:
Clifford A. Faust

1938 Winner: Winston E. Kock
For his noteworthy applications of vacuum tubes to the production of musical instruments and his exceptional leadership in the artistic life of the community

Honorable Mention:
Harold E. Gove
Honorable Mention:
George M. L. Sommerman

1939 Winner: Larned A. Meacham
For his distinguished research in the generation of constant frequency currents, and his exceptional participation in the cultural life of the community

Honorable Mention:
Carl K. Gieringer
Honorable Mention:
Jesse E. Hobson

1940 Winner: Jesse E. Hobson
By virtue of his noteworthy researches in alternating current theory and his exceptional teaching achievement, together with his leadership in the church

Honorable Mention:
Donald G. Fink
Honorable Mention:
Stuart C. Hight
1941 **Winner:** Cledo Brunetti
U.S. Bureau of Standards
By virtue of his exceptional researches in electric circuit theory, his effective teaching, and his unusual activities in behalf of his fellowmen

**Honorable Mention:**
George F. Leydorf
WLW (Crosley Corp.)
Present affiliation: Retired

Simon Ramo
General Electric Co.
Present affiliation: TRW, Inc.

1942 **Winner:** John R. Pierce
Bell Telephone Laboratories
Present affiliation: Retired
By virtue of his distinguished research on microwave vacuum tubes which markedly increased the effectiveness of radar in World War II, and by his efforts in the popularization of science

**Honorable Mention:**
Gilbert D. McCann
Westinghouse Electric & Manufacturing Co.
By virtue of his notable research in lightning phenomena, and his development of instruments for the measurement thereof

David B. Smith
Philco
Present affiliation: Retired
By virtue of his leadership in the development of radio and television standards, his skillful direction of a large research organization, and his fostering of cooperative engineering education

1943 **Winner:** Nathan I. Hall
Hughes Aircraft Co.
By virtue of his notable contributions to submarine radar design, his leadership in developing high speed telephone switching systems, and his exemplary activity in the life of his community

**Honorable Mention:**
Armig G. Kandoian
ITT
Present affiliation: Retired
By virtue of his exceptional contributions to broadcast and communication antenna art, and his research leading to the first practical airplane instrument landing system

James W. McRae
Bell Telephone Laboratories
By virtue of his important contributions to vacuum tube circuitry and his distinguished service to the nation in coordinating military radar and communications research in World War II
1944 Winner: Richard W. Porter
By virtue of his notable contributions to the design of automatic tracking radar systems, his work in engineering education, and his unusual leadership in the life of his community

Honorable Mention:
William E. Ingerson
Bell Telephone Laboratories
By virtue of his unusual studies in the field of materials testing, his meritorious work on fire control radars, and his extraordinary leadership in the artistic life of his community

Honorable Mention:
Ernst H. Krause
Naval Research Laboratories
By virtue of his important contributions to American communications security and the development of countermeasures against guided bomb attacks in World War II, and his activities for his community

Honorable Mention:
Donald G. Pugsley
General Electric Co.
Present affiliation: TRW, Inc.
By virtue of his prominent part in the commercial development of radio and television receivers, and his exceptional activities in behalf of the young people of his community

1945 Winner: James M. Wallace
By virtue of his skill displayed in the development of superior electrical protective devices and his extraordinary contributions to the life of his community

Honorable Mention:
Wallace A. Depp
Bell Telephone Laboratories
Present affiliation: Retired
By virtue of his leadership in the development of gas tubes for military and peacetime purposes, and his wide interest in social and artistic affairs

Honorable Mention:
Jack A. Morton
Bell Telephone Laboratories
By virtue of his important contributions to vacuum-tube theory and practice, and his many varied activities in behalf of his community and his fellow engineers

Honorable Mention:
Edgar A. Post
United Air Lines
Present affiliation: Retired
By virtue of his signal contributions to the performance of airborne communication systems in World War II and his exceptional activities for his church and his community
1946 Winner: **Everard M. Williams**  
Carnegie Institute of Technology  
By virtue of his noteworthy contributions to radio receiver development in World War II, his exceptional activity in civic affairs, and his leadership in engineering societies  
**Honorable Mention:**  
**Benjamin B. Bauer**  
Shure Bros. Inc.  
By virtue of his contributions to the design and manufacture of high-quality microphones and unselfish leadership in civic and social affairs  
**Honorable Mention:**  
**Albert C. Hall**  
Massachusetts Institute of Technology  
Present affiliation: Retired  
By virtue of his extraordinary development of dynamic analysis leading to the control of highspeed aircraft and guided missiles, and his activities in professional societies  
**Honorable Mention:**  
**Donald L. Waidelich**  
University of Missouri  
Present affiliation: University of Missouri  
By virtue of his noteworthy leadership in the development of naval ordnance in World War II, and his unusual activities for his community and for the teaching profession

1947 Winner: **Richard R. Hough**  
Bell Telephone Laboratories  
Present affiliation: Retired  
By virtue of his exceptional direction of fire-control radar systems development in World War II, his exemplary activity in community affairs, and his remarkable athletic accomplishments  
**Honorable Mention:**  
**Marvin Camras**  
Armour Research Foundation  
Present affiliation: Illinois Institute of Technology  
By virtue of his fundamental contributions to the science and art of magnetic recording, and his professional society participation  
**Honorable Mention:**  
**Jerome B. Wiesner**  
MIT Radiation Laboratory  
Present affiliation: Massachusetts Institute of Technology  
By virtue of his excellent skill in the organization of complex radar projects, and his unusual contributions to the entertainment of military personnel in World War II

1948 Winner: **Abe M. Zarem**  
Stanford Research Institute  
Present affiliation: Consultant  
By virtue of his outstanding development of high-speed cameras and other important electronic devices, his unusual teaching ability, and his professional society activity  
**Honorable Mention:**  
**Jay W. Forrester**  
Massachusetts Institute of Technology  
Present affiliation: Massachusetts Institute of Technology  
By virtue of his exceptional contributions to servomechanisms theory and to the design and development of digital computers and his prominent activity in community affairs  
**Honorable Mention:**  
**Milton E. Mohr**  
Bell Telephone Laboratories  
Present affiliation: Quotron Systems  
By virtue of his important contributions to the application of electron tubes to telephone switching circuits, and his extraordinary leadership in church and civic life

1949 Winner: **Robert C. Cheek**  
Westinghouse Electric Corp.  
Present affiliation: Retired  
By virtue of his notable contributions to the power and communications transmission fields, and his exceptional activities in behalf of radio amateurs in this country  
**Honorable Mention:**  
**Lester M. Field**  
Bell Telephone Laboratories  
Present affiliation: Retired  
By virtue of his contributions to the microwave electron tube art, and his organization and direction of an outstanding research laboratory in this field  
**Honorable Mention:**  
**Louis George Gitzendanner**  
General Electric Co.  
Present affiliation: Magnetic Peripherals  
By virtue of his exceptional technical contributions to diverse fields of physical sciences, and notably to magnetics, and his activities in behalf of his fellow engineers
1950 Winner: **Donald P. Campbell**  
Massachusetts Institute of Technology  
By virtue of his notable contributions to servomechanism theories and to their industrial applications, his exceptional teaching abilities, and his outdoor activities for the benefit of others

Honorable Mention:

**Andrew W. Edwards**  
Westinghouse Electric Corp.  
By virtue of his extraordinary ingenuity and significant achievements in the art of circuit interruption and his prominent participation in church and civic activities

**Kenneth A. Kesselring**  
General Electric Co.  
By virtue of his exceptional contributions to the design and construction of nuclear power reactors and his skillful direction of associates in both army and civilian life

**Robert W. Mayer**  
General Electric Co.  
By virtue of his unusual originality in the fields of servomechanism circuits, his outstanding teaching work, and his leadership in civic activities

1951 Winner: **Louis George Gitzendanner**  
General Electric Co.  
Present affiliation: Magnetic Peripherals  
By virtue of his skillful management of concurrent development of varied complex electromechanical devices, his inspirational leadership of associates and his unselfish participation in school and professional affairs

Honorable Mention:

**Burton Raber Lester**  
General Electric Co.  
By virtue of his outstanding ability in the development of military electronic systems and his inspired leadership of professional groups and young people

**Robert L. Trent**  
Bell Telephone Laboratories  
Present affiliation: U.S. Army Engineers  
By virtue of his contribution to advanced development and design of communications and supersonic systems, and for his enthusiastic participation in community, church and local government affairs

1952 Winner: **John Van Nuys Granger**  
Stanford Research Institute  
Present affiliation: U.S. Department of State  
By virtue of his noteworthy researches on aircraft radio antennas, his organization and direction of a large radiation systems laboratory, and his unusual interest in cultural and professional activities

Honorable Mention:

**Edward O. Johnson**  
RCA Corp.  
Present affiliation: Retired  
By virtue of his notable contributions to the field of gaseous electronics, his invention of the plasmotron and his special interests in art and professional activities

**Gustav W. Staats**  
Allis Chalmers  
Present affiliation: Retired  
By virtue of his outstanding contributions to the design and construction of supercharged hydrogen-cooled turbine generators and his extraordinary participation in the life of the community
1953 Winner: **Pier Antonio Abetti**  
General Electric Co.  
Present affiliation: Rensselaer Polytechnic Institute  
By virtue of his original approach to power-transformer design through the creation of unique electromagnetic models and his exceptional civic and cultural attainments  

Honorable Mention:  
**John Edward Jacobs**  
General Electric Co.  
Present affiliation: Northwestern University  
By virtue of his outstanding discourses in the application of X-ray methods to industrial problems and his interest in cultural and social activities  

Honorable Mention:  
**Adam G. Kegel**  
Westinghouse Electric Corp.  
Present affiliation: U.S. Postal Service  
By virtue of his distinguished contributions to the design of autopilots and fire-control systems and his unselfish work for his church and youth of his community

1954 Winner: **Ruben F. Mettler**  
Hughes Aircraft Co.  
Present affiliation: TRW, Inc.  
By virtue of his outstanding planning and development of air defense control systems, his participation in civic affairs, and his various artistic attainments

Honorable Mention:  
**Edward F. David, Jr.**  
Bell Telephone Laboratories  
Present affiliation: EED, Inc.  
By virtue of his exceptional contributions to the art of anti-submarine warfare and his interest in the life of the community

Honorable Mention:  
**Jackson F. Fuller**  
General Electric Co.  
Present affiliation: Colorado University  
By virtue of his notable application of engineering principles and equipment to power systems and his extraordinary activities in behalf of his fellow men

Honorable Mention:  
**Leon K. Kirchmayer**  
General Electric Co.  
Present affiliation: Retired  
By virtue of his distinguished research in power systems engineering and his extraor-  
dinary participation in civic and professional activities

Honorable Mention:  
**Lindon E. Saline**  
General Electric Co.  
Present affiliation: Retired  
By virtue of his noteworthy studies and teaching of power-systems engineering and  
his exceptional leadership in cultural and professional organizations
**1955 Winner:** Wilbert E. Chope

By virtue of his noteworthy achievements in the field of nucleonics and his deep interest in the welfare of his fellowmen

**Honorable Mention:**

*John N. Grace*

Westinghouse Electric Corp.
Present affiliation: Nuclear Regulatory Commission

By virtue of his outstanding contributions in the development of atomic power, and his exceptional activity in civic and professional affairs

*Horace R. Johnson*

Hughes Aircraft Co.
Present affiliation: Watkins-Johnson

By virtue of his distinguished achievements in microwave tubes, and his active participation in community organizations

*Donald B. Shuster*

Sandia Laboratories

By virtue of his notable contributions in the art of anti-aircraft warfare, and his wide interest in cultural and social life of his community

*Glen Wade*

Stanford Research Lab
Present affiliation: University of California

By virtue of his exceptional contributions to microwave research, and his unselfish service to his church

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**1956 Winner:** Jordan J. Baruch

By virtue of his many notable accomplishments in the field of acoustics, both academically and professionally, and exceptionally wide interest in cultural and professional activities

**Honorable Mention:**

*Robert B. Seidel*

Lincoln Electric Automatic Timing Control
Present affiliation: Automatic Timing & Controls

By virtue of his outstanding contributions to the development of electric power equipment, his unusual managerial ability, and his unselfish devotion to his community and church

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**1957 Winner:** Robert P. Crago

By virtue of his outstanding leadership in the planning and development of air defense facilities, and his unselfish participation in the civic and church activities of his community

**Honorable Mention:**

*Walter R. Beam*

RCA Corp.
Present affiliation: Consultant

By virtue of his extraordinary analytical and technical competence in microwave development, his administrative ability, and his exceptional activity in community and professional affairs

*Glenn W. Stagg*

American Electric Power Service Corp.
Present affiliation: Stagg Systems

By virtue of his notable contributions to the economic study and planning of electric power systems and his many civic, cultural and other achievements

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**1958 Winner:** Malcolm R. Currie

By virtue of his outstanding technical proficiency in the field of microwave tubes and his unselfish activities on behalf of his fellow men, especially in education

**Honorable Mention:**

*Dudley A. Buck*

Massachusetts Institute of Technology

By virtue of his notable contributions in information-handling techniques, and his unstinting devotion to church and community
1959 Winner: Edgar A. Sack, Jr.
By virtue of his notable contributions to solid state device research and development, particularly in the field of electroluminescence, and his exceptional leadership in the civic and social life of his community

Honorable Mention:
William O. Fleckenstein
By virtue of his outstanding record in the field of communications training and development, and his unusually meritorious activities for church and community

Honorable Mention:
Kenneth H. Olsen
By virtue of his exceptional contribution to advanced digital computer design and production, and his activities in behalf of the church

Honorable Mention:
John W. Wentworth
By virtue of his many contributions to the development of color television, and his exceptional leadership in church and community

1960 Winner: Kenneth H. Olsen
By virtue of his notable contributions to the field of digital computer technology, his administrative competence, and his unselfish participation in church activities

Honorable Mention:
William B. Green
By virtue of his highly creative work in the field of semiconductor devices, his activity in training and his unstinted devotion to the church

Honorable Mention:
Robert R. Johnson
By virtue of his extraordinary analytical and technical competence in computer development, his managerial ability and his active participation in community and professional affairs

Honorable Mention:
Thomas H. Thompson
By virtue of his outstanding contributions in missile guidance technology, his high quality of leadership and his selfless service to church and community

1961 Winner: Clarence J. Baldwin, Jr.
By virtue of his extraordinary analytical and technical proficiency in the field of electric power systems, his activity in graduate level education and his unsparing devotion to the church

Honorable Mention:
W. Lee Shevel, Jr.
By virtue of his unusually creative work in magnetic device research, his managerial ability and his unselfish participation in church activities

Honorable Mention:
Howard A. Zollinger
By virtue of his outstanding contributions in the field of electric machine control and his highly commendable activities for church and community
1962 Winner: James Thomas Duane
General Electric Co.
Present affiliation: General Electric Co.
By virtue of his notable contributions in aircraft and aerospace generator design and development, his managerial ability and his unusually meritorious activities for church and community

Honorable Mention:
Francis A. Gicca
Raytheon Co.
Present affiliation: GTE
By virtue of his highly creative work in the fields of communications and space technology and his exceptional activity in community and professional affairs

1963 Winner: Donald C. Forster
Hughes Aircraft Co.
By virtue of his many outstanding contributions in the field of electron dynamics, his managerial ability, and his unstinting devotion to the church and its activities

Honorable Mention:
Frederick J. Young
Carnegie Institute
Present affiliation: Frontier Timber Co.
By virtue of his exemplary performance in engineering education, his extraordinary proficiency in electronic and acoustical research, and his active participation in church and civic affairs

1964 Winner: W. Lee Shevel, Jr.
IBM Corp.
Present affiliation: SDC Burroughs
By virtue of his excellence in the research of magnetism, memory and materials for the advancement of computer science, his demonstrated managerial abilities, and his high devotion to the work of the church

Honorable Mention:
Paul Dragoumis
American Electric Power Service Corp.
Present affiliation: Potomac Electric
By virtue of his extraordinary contributions to the fields of nuclear engineering, magnetohydrodynamics and industrial economics, and his guidance and development of young people

1965 Winner: Edward M. Davis, Jr.
IBM Corp.
Present affiliation: IBM Corp.
By virtue of his many notable contributions in the development of solid state components and circuits, his managerial ability and his dedication to church and civic activities

Honorable Mention:
Ronald Stephen McCarter
Bell Telephone Laboratories
Present affiliation: Teledyne Ryan Aeronautics
By virtue of his recognized leadership in the field of radar systems engineering and design and his exceptional activities in civil defense and other community affairs
1966 Winner: Mortin H. Lewin
By virtue of his notable contributions to computer research in areas of logic, memories and input-output devices, and his dedication to community activities

Honorable Mention:
Robert L. Brass
By virtue of his important technical contributions to the art of electronics switching, and his unusual excellence in athletics

William B. Bridges
By virtue of his extraordinary contributions to the fields of laser technology, his inspirational leadership qualities and his dedication to church activities

Harvey C. Nathanson
By virtue of his outstanding contributions to the field of semiconductor physics and his meritorious guidance of young people

1967 Winner: Robert F. Elfant
By virtue of his notable contributions to computer memory research, his inspirational leadership qualities, and his dedication to professional and community activities

Honorable Mention:
George H. Heilmeier
By virtue of his study and application of new effects in solids and liquids and his dedication to community and church activities

Robert W. Lucky
By virtue of his extraordinary contributions to the field of data communications and his dedication to community effort

1968 Winner: George H. Heilmeier
By virtue of his extraordinary and fruitful efforts to apply new effects in solids and liquids, and his exceptional contributions to community and church affairs

Honorable Mention:
Lee D. Davisson
By virtue of his notable contributions to the field of communication theory and his commendable participation in community affairs

Steven R. Hofstein
By virtue of his notable pioneering contributions to the technology of transistor and integrated circuits, his managerial skills, and his dedication to community activities

Ralph W. Wyndrum, Jr.
By virtue of his notable contributions to computer-aided design and his devoted service to community and church activities

1969 Winner: Robert E. Larson
By virtue of his outstanding wide application of modern control theory, his notable leadership and his dedication to community and church affairs

Honorable Mention:
Glenn D. Bergland
By virtue of his outstanding contributions to the Fast Fourier Transform and his dedication to community and church activities

William G. Scheerer
By virtue of his outstanding contributions to computer-aided design and optimization and his devoted service in church and community
1970 Winner: James B. Farison
By virtue of his notable contributions to engineering education and his dedication to professional and church activities

Honorable Mention:
Elwyn Ralph Berlekamp
By virtue of his extraordinary contributions to the field coding theory, and his participation in community affairs

A. Michael Noll
By virtue of his pioneering contributions to computer generated stereo graphics, and his devoted service to his community

1971 Winner: Elwyn Ralph Berlekamp
By virtue of his pioneering contributions to the field of information theory, and his devotion to church and community affairs

Honorable Mention:
Harold John Hovel
By virtue of his notable contributions to the field of solid state devices, and his involvement in conservation.

Honorable Mention:
George P. Shuraym
By virtue of his leadership in the field of industrial control computers and his dedication to cultural activities

1972 Winner: George P. Shuraym
Texas Instruments
By virtue of his outstanding accomplishments in the field of process control computers, and his contributions to cultural affairs

Honorable Mention:
James Emanuel Goell
By virtue of his contributions to communications systems, and his concern for his community

Larry W. Holmstrom
IBM Corp.
By virtue of his notable activities in the field of computer manufacturing and his involvement in youth programs

Honorable Mention:
Lawrence Richard Rabiner
Bell Telephone Laboratories
By virtue of his leadership in the field of computer-generated speech, and his participation in charitable activities
1973 Winner: John T. LaMacchia  
Bell Telephone Laboratories  
Present affiliation: AILK  
By virtue of his pioneering work in holography memories and his leadership in community affairs

Honorable Mention:  
Gerald K. Beckmann  
IBM Corp.  
Present affiliation: Threshold Technology  
By virtue of his notable accomplishment in computer development and his involvement in his community

Honorable Mention:  
Douglas C. Bossen  
IBM Corp.  
Present affiliation: IBM Corp.  
By virtue of his contribution in the field of computer reliability and his participation in church activities

Honorable Mention:  
Leonard J. Forys  
Bell Telephone Laboratories  
Present affiliation: Bell Communications Research  
By virtue of his noteworthy work in the field of traffic theory and his activities in the political process

1974 Winner: Harold John Hovel  
IBM Corp.  
Present affiliation: IBM Corp.  
By virtue of his outstanding accomplishments in the field of solid state devices, and his leadership in conservation

Honorable Mention:  
Richard Barton Fair  
Bell Telephone Laboratories  
Present affiliation: Microelectronics Center, North Carolina  
By virtue of his contributions to microwave transistor development and his participation in church activities

Honorable Mention:  
Se June Hong  
IBM Corp.  
Present affiliation: IBM Corp.  
By virtue of his noteworthy work in the field of error correcting codes, and his active role in community affairs

1975 Winner: David J. Melvold  
Los Angeles Department of Water and Power  
Present affiliation: Los Angeles Dept. of Water and Power  
By virtue of his outstanding contributions to the field of high voltage transmission and his role in community and professional affairs

Honorable Mention:  
Robert Martin Haralick  
University of Kansas  
Present affiliation: Virginia Polytechnic Institute  
By virtue of his accomplishments in image processing and his active role in civic affairs

Honorable Mention:  
Carlton Morris Osburn  
IBM Corp.  
Present affiliation: CTS Corp.  
By virtue of his noteworthy work in the field of dielectric breakdown analysis and his participation in church activities

1976 Winner: Clinton S. Hartmann  
Texas Instruments  
Present affiliation: RF Monolithics  
For original contributions to research and technology of acoustic surface wave devices, and for his participation in civic activities

Honorable Mention:  
John G. N. Henderson  
RCA Corp.  
Present affiliation: RCA Laboratories  
For contributions to the advancement of television technology and for his interest in civic and cultural affairs

1977 Winner: John G. N. Henderson  
RCA Corp.  
Present affiliation: RCA Corp.  
For original contributions to the advancement of television technology, and for his participation in civic and cultural affairs

Honorable Mention:  
Daniel P. Siewiorek  
Carnegie-Mellon University  
Present affiliation: Carnegie-Mellon University  
For contributions to the analysis and design of fault tolerant computing systems, and for his participation in civic activities
1978 Winner: Richard E. Birney
For original contributions in computer architecture and technology, and for leadership in community and civic activities

Honorable Mention: David W. McElroy
For contributions in power apparatus and components design and application, and for leadership in professional activities and community affairs

1979 Winner: Ronald G. Cornell
By virtue of his outstanding accomplishment in the field of telecommunications and for his participation in community activities and cultural affairs

Honorable Mention: Stephen F. Mauser
By virtue of his contributions to the field of electronic power transmission and for leadership in professional and civic affairs

1980 Winner: Jesse E. Russell, Sr.
By virtue of his original contributions in the field of telecommunications network support systems and for his involvement in civic and career guidance activities

Honorable Mention: Warren J. Ayer, Jr.
By virtue of his contributions to the field of semiconductor memory technology and for his involvement in church and community activities

Honorable Mention: Steven J. Temple
By virtue of his contributions to the field of microwave amplifiers and for involvement in church and professional activities

1981 Winner: Tushar R. Gheewala
By virtue of his outstanding contributions to the field of Josephson logic circuitry and for his involvement in civic and professional activities

Honorable Mention: Won Tien Tsang
By virtue of his contributions to the field of semiconductor laser technology and for his cultural achievements

Honorable Mention: Thomas G. Wilson, Jr.
By virtue of his contributions to the field of electric power conversion and for his involvement in church activities

By virtue of his outstanding contributions to the field of control technology, his cultural achievements, and his involvement in professional activities

1983 Winner: Brian F. Fitzgerald
By virtue of his outstanding contributions to the field of computer memory technology, for his involvement in church activities and for cultural achievement

Honorable Mention: Hung-Fai Stephen Law
By virtue of his contributions to the fields of integrated circuit design and biomedical technology, for cultural achievements and for his achievements in church activities

Honorable Mention: Michael L. Steinberger
By virtue of his contributions to the field of microwave communications, for his involvement in his church music ministry, and for cultural achievement
1984 Winner: William E. Moerner
By virtue of his outstanding contributions to the field of optical storage systems, for his cultural achievements, and for his involvement in the music arts

Honorable Mention:
Stanley M. Belyeu
By virtue of his contributions to the field of robot control systems, and for his involvement in church and civic activities

Honorable Mention:
Cecelia Jankowski
By virtue of her contributions to the field of computer-aided engineering, and for her involvement in community and professional activities

Honorable Mention:
Robert P. Parker
By virtue of his contribution in the fields of color television receiver technology and engineering management, and for his involvement in community activities

1985 Winner: Mark G. Adamiak
American Electric Power Service Corp.
By virtue of his outstanding contributions to the field of digital relaying for power system security, for his involvement in the Big Brother/Big Sister program and in other community activities

Honorable Mention:
Harvard Scott Hinton
AT&T Bell Laboratories
By virtue of his contributions to the development of photonic switching technologies and for his involvement in church and community activities

Honorable Mention:
Harold A. Hoeschen, Jr.
AT&T Bell Laboratories
By virtue of his contributions to the field of 32-bit microprocessor development and for his involvement in church and civic activities

Honorable Mention:
Michael Keith
RCA David Sarnoff Research Center
By virtue of his contributions to the fields of computer-composed music and teletext systems and for his involvement in church and cultural activities
# Eta Kappa Nu

## Award Organization Committee Chairmen

<table>
<thead>
<tr>
<th>Years</th>
<th>Chairmen</th>
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<tbody>
<tr>
<td>1935–1946</td>
<td>Roger I. Wilkinson</td>
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<tr>
<td>1946–1947</td>
<td>O. H. Loynes</td>
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<td>1947–1951</td>
<td>V. L. Dzwonczyk (Larry Dwon)</td>
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<tr>
<td>1951–1955</td>
<td>E. Elvove</td>
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<td>1955–1959</td>
<td>J. H. Craig</td>
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<td>1959–1966</td>
<td>Willard B. Groth</td>
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<td>1966–1970</td>
<td>Berthold Sheffield</td>
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<td>1970–1975</td>
<td>Harlan Perlis</td>
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<td>1975–1979</td>
<td>Donald Christiansen</td>
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<td>1979–1985</td>
<td>James A. D'Arcy</td>
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<td>1985–</td>
<td>Irving Engelston</td>
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## Committee Members

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<tr>
<td>1929–1930</td>
<td>C. T. Koerner</td>
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<td>1931–1932</td>
<td>M. J. Kolhoff</td>
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<td>Everett S. Lee</td>
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<td>W. Levidow</td>
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<td>B. F. Lewis</td>
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<td>O. H. Loynes</td>
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<td>1941–1942</td>
<td>Robert W. Lucky</td>
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<td>1943–1944</td>
<td>Stephen A. Mallard</td>
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<td>George A. Mangiero</td>
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<td>E. Markard</td>
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<td>M. S. Mason</td>
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<td>D. H. McCaughy</td>
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<td>J. M. Monstream</td>
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<td>1957–1958</td>
<td>William E. Murray</td>
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<td>R. W. Pasby</td>
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<td>Harlan J. Perlis</td>
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<td>Ralph J. Preiss</td>
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<td>David C. Prince</td>
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<td>Sheldon J. Raiter</td>
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<td>Frederick A. Russell</td>
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<td>John D. Ryder</td>
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<td>Berthold Sheffield</td>
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<td>R. M. Shoop</td>
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<td>1987–1988</td>
<td>Lawrence D. Wechsler</td>
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<td>F. W. Young</td>
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<td>1993–1994</td>
<td>Alton B. Zerby</td>
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## Award Jurors

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<tr>
<td>1935–1936</td>
<td>Adolphus M. Dudley</td>
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<td>Larry Dwon</td>
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<td>J. Presper Eckert</td>
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<td>Bruce A. Eisenstein</td>
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<td>M. Eldridge</td>
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<td>Ovid W. Eshbach</td>
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<td>William L. Everitt</td>
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<td>Earl D. Eyman</td>
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<td>Donald G. Fink</td>
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<td>Arthur E. Fitzgerald</td>
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<td>J. H. Foote</td>
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<td>T. C. Fry</td>
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<td>Anthony F. Gabrielle</td>
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<td>Walter L. Grumb</td>
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<td>John V. N. Granger</td>
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<td>C. A. Gunther</td>
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<td>A. V. Haef</td>
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<td>Patrick E. Haggerty</td>
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<td>M. C. Hale</td>
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<td>A. C. Hall</td>
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<td>2007–2008</td>
<td>H. P. Hammond</td>
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<td>2009–2010</td>
<td>John C. Hancock</td>
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<td>2011–2012</td>
<td>William H. Harrison</td>
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Award Jurors

E. Hausman 1950–1951
Arthur Hauspurg 1971–1972
Reinhard K. Hellmann 1974–1975
R. E. Hellmund 1940–1942
David M. Henderson 1978–1979
Henry Harrison Henle 1941–1942
S. W. Herwald 1969–1970
Eric Herz 1979–1980
1948–1950
1953–1954
1956–1957
Late in Farrington Hickernell 1958–1959
W. S. Hill 1964–1965
J. Hillier 1964–1965
1973–1974
Jesse E. Hobson 1955–1957
Charles F. Hoffman 1978–1979
Stacy V. Holmes 1981–1982
Morris D. Hooven 1956–1957
R. R. Hough 1957–1958
1961–1962
J. A. Hutcheson 1955–1956
1958–1959
C. M. Hyde 1966–1967
S. B. Ingram 1967–1968
Charles Byron Jollife 1952–1953
L. G. Kandoian 1959–1960
Arthur H. Keohoe 1950–1951
Mervin J. Kelly 1952–1953
H. L. Kertz 1973–1974
Carroll J. Killen, Jr. 1978–1979
S. C. Killian 1962–1963
Leon K. Kirchmayer 1963–1964
W. A. Klos 1974–1975
Winston E. Kock 1957–1958
C. T. Koerner 1958–1959
J. W. Koopman 1964–1965
William B. Kouwenhoven 1949–1950
E. B. Kurz 1952–1953
J. E. Lagerstrom 1963–1964
E. A. Leach 1967–1968
Titus George LeClair 1952–1953
Everett S. Lee 1936–1937
Clarence N. Linder 1958–1959
L. F. Lischer 1962–1963
Robert W. Lucky 1969–1970
Russel E. Lueg 1982–1983
J. A. M. Lyon 1962–1963
Walter K. MacAdams 1965–1966
1972–1973
M. S. Mason 1938–1939
Karl M. McEachron 1956–1957
F. McGinnis 1963–1964
John C. McPherson 1960–1961
James W. McRae 1956–1957
George F. Mechlin 1983–1984
R. F. Mettler 1961–1962
Edward B. Meyer 1936–1937
H. B. Miller 1966–1967
Eugene L. Mleczyko 1975–1978
Edward L. Moreland 1947–1949
W. C. Morrison 1968–1969
L. W. W. Morrow 1936–1937
S. H. Mortensen 1951–1952
J. E. Murdoch 1948–1949
Samuel Musa 1982–1983
Albrecht Naeter 1959–1960
Charles E. Ohlman 1982–1983
Kenneth H. Olsen 1974–1975
John C. Parker 1938–1939
Sydney R. Parker 1981–1982
G. E. Pendray 1954–1955
Harlan Perils 1972–1976
J. O. Perrine 1951–1952
H. A. Peterson 1953–1954
John Pierce 1961–1962
Emanuel R. Piore 1964–1965
Charles Alfred Powell 1947–1948
1949–1950
Haraden Pratt 1958–1959
John R. Raggazzini 1974–1975
Keith R. Rathjen 1982–1983
R. Bruce Renda 1962–1963
R. L. Rees 1936–1937
H. S. Rogers 1939–1940
C. V. Roseberry 1959–1960
W. L. Rubin 1969–1970
R. L. Sackett 1938–1939
Lindon E. Saline 1941–1942
Alan B. Salisbury 1970–1971
Frank E. Sanford 1985–1986
G. P. Sawyer 1950–1952
R. J. Shank 1939–1941
Sergei A. Schelkunoff 1959–1960
Berthold Sheffeld 1975–1976
Howard H. Sheppard 1966–1969
1964–1966
1972–1973
Donald B. Sinclair 1984–1985
R. G. Slaumer 1953–1954
F. V. Smith 1960–1961
W. P. Smith 1953–1954
Royal W. Sorenson 1966–1968
Philip Sporn 1940–1941
Glenn Stagg 1970–1971
Everett M. Strong 1954–1955
Chauncey Guy Suits 1947–1948
G. J. Taylor 1957–1958
R. B. Teare, Jr. 1958–1959
I. Travis 1960–1961
John G. Truxal 1971–1972
B. F. Tyson 1968–1969
John P. Van Duyne 1979–1980
Arthur F. Van Dyck 1953–1954
Charles F. Wagner 1963–1964
E. A. Walker 1951–1952
James M. Wallace 1957–1958
J. Walsh 1961–1962
S. Reid Warren 1967–1968
1948–1949
1954–1957
E. F. Watson 1962–1964
Ernst Weber 1972–1973
William Webster 1979–1981
J. W. Weigt 1937–1938
P. C. Weimer 1971–1973
Max T. Weiss 1985–1986
W. S. White 1975–1976
Rossiter W. Wilbraham 1948–1950
Roger I. Wilkinson 1936–1938
1966–1968
1969–1970
1971–1972
1973–1977
1957–1976
1935–1945
1964–1965
1969–1970
1968–1969
1938–1939
1955–1956
1979–1980
1979–1980

1947–1948 jury picked winners and honorable mentions for all years since 1941–1942. The Award was discontinued during World War II, but awards covering the war years were presented in 1947.
Eta Kappa Nu Award
Photographic recollections of award banquets, organizing committees, and jurors

The Hotel Martinique in New York City was the scene of the second Awards Banquet on Jan. 28, 1938.
Random Photographic Recollections

1958  Carl Koerner, Robert Crago, Mrs. Donald Fink

1956  T. V. Learson, Mrs. Walter R. Beam, Glenn Stagg, Ivan Coggeshall

1939  Awards Banquet. Head table.

1956  Dr. and Mrs. Jordan J. Baruch

1968  Robert W. Lucky addresses the Annual Banquet.

1940  Larned Meacham and Winston Kock perform on violin and organ

1958  E. D. Callahan, Jacob Hofstader, E. E. Grassda, Morris Brenner, Mrs. Brenner, Mrs. Roger Wilkinson

1959 Awards Banquet


1956 Jordan J. Baruch addresses the Awards Banquet.

1951 Award Banquet

1958 E. W. Engstrom, Glenn Stagg (standing)

1953 Award Banquet. Eric Gross, C. A. Powel, Philip Sporn

1953 Annual Banquet: T. G. LeClair, Mrs. E. O. Johnson, G. Staats, S. H. Mortensen, J. V. N. Granger


1978  Jury of Award: C. Hoffman, D. Henderson, D. Christiansen, C. Killen


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Alan Lefkow, Vice President 1985–1986
Earl Steele, Junior Past President 1985–1986
Paul K. Hudson, Executive Secretary

**International Board of Directors**
Alfred L. Arnold 1985–1987
Richard Cockrum 1984–1986
Michael R. Hajny 1984–1986
Eugene Mleczko 1985–1987
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