

An Introduction to IEEE-HKN and How to Establish an IEEE-HKN Chapter



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*Empowering Members
to Create the Future*

IEEE Sections Congress 2011

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Overview

- Introducing IEEE-HKN
- IEEE-HKN Induction & Membership
- IEEE-HKN School Chapters & IEEE Organizational Units
- IEEE-HKN Alumni Chapters, IEEE Organizational Units & Professionals



Introducing IEEE-Eta Kappa Nu (IEEE-HKN)

www.hkn.org



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Originally founded as HKN:

- **Originally founded in 1904 at University of Illinois at Urbana-Champaign as Eta Kappa Nu (HKN)**
 - HKN was a unique membership organization dedicated to encouraging and recognizing excellence in only the electrical and computer engineering fields
 - Original purpose was to honor scholarship, but it also noted that selecting students with character and attitude would make them probable leaders in the profession which was even more important
- **Inducted both student and professional members (as either member or eminent member)**
- **Had Student and Alumni Chapters**
 - Student Chapters based at universities
 - Eta Chapter for inductees who were inducted where no School Chapter exists
 - Alumni Chapters of inductees defined by geographic designation
- **Published The Bridge magazine**



What is IEEE-HKN?

- **HKN became IEEE-HKN on 1 September 2010** following a merger between Eta Kappa Nu (HKN) Association and The Institute of Electrical and Electronics Engineers, Incorporated (IEEE)
- **IEEE-HKN is the honor society within the IEEE**
 - An Honor Society is an organization, within a specific academic discipline, that:
 - Recognizes excellence among peers
 - Recognizes students who excel academically or as leaders among their peers
- **IEEE-HKN reports through the IEEE Educational Activities Board (EAB)**
 - IEEE-HKN President is a member of the EAB Board
 - Relationship is similar to an IEEE Society or Technical Council reporting through the IEEE Technical Activities Board (TAB)
- **IEEE-HKN is governed by the *IEEE Bylaws* and the *IEEE Eta Kappa Nu Operations Manual***



Why did IEEE form IEEE-HKN?

- **Gave IEEE the basis on which to build an honor society**
 - Provided IEEE with organizational, volunteers, name and recognition, and physical assets of HKN
 - Provided an additional avenue of recognition for IEEE members beyond IEEE Senior Member and Fellow grades
- **Added value to the honor society by encompassing the geographical and technical scopes of IEEE**
 - Allowed moving beyond HKN's geographic limits (was only USA)
 - Allowed moving beyond HKN's disciplines of interest (was limited to Electrical and Computer Engineering)



Benefits of IEEE-HKN

- IEEE-HKN recognizes excellence among peers
- IEEE-HKN is dedicated to encouraging and recognizing students who have achieved excellence in the fields of interest of IEEE
- IEEE-HKN provides leadership training conferences, networking opportunities, and lifelong skills to the top students
- IEEE-HKN Chapters are encouraged to establish better communications such as discussion groups, websites, and newsletters.



IEEE-HKN Board of Governors

- **IEEE-HKN Board of Governors consists of:**
 - President, Vice President and Past President
 - 4 regionally elected Directors (not the same as IEEE Regions)
 - 2 member-at-large Directors
 - Executive Director (ex officio, staff)
- **Elected by active IEEE-HKN Chapters**
- **Establishes IEEE-HKN (geographic) regions with defined boundaries and names**
- **Assigns IEEE-HKN Chapters to IEEE-HKN regions**



Today IEEE-HKN includes Students and Professionals:

- **Individuals who are Inductees for life**
 - May have been inducted by either HKN or IEEE-HKN.
- **IEEE-HKN Members**
 - Those inducted into HKN or IEEE-HKN and who are also currently active IEEE members of any grade: e.g., StM (Student member), GSM (Graduate Student member), A (Associate member), M (Member), LM (Life Member), SM (Senior Member), LSM (Life Senior Member), F (Fellow), LF (Life Fellow)
- **May hold IEEE-HKN Member or IEEE-HKN Eminent Member designation**
 - IEEE-HKN member designation appears on the IEEE Annual Membership card under individual's IEEE member grade designation)



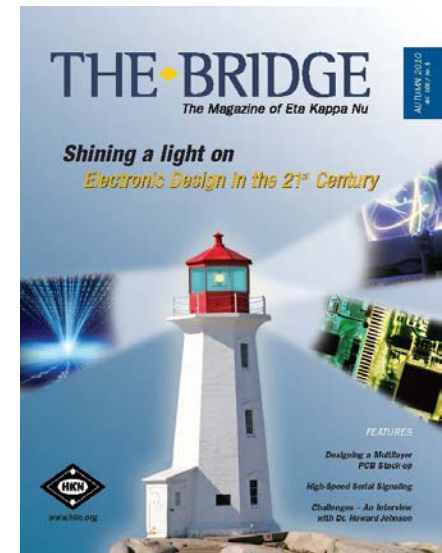
Today IEEE-HKN includes Student and Alumni Chapters

- **Student Chapters** based at universities & are separate IEEE Organizational Units (OUs) from IEEE Student Branches
- **Eta Chapter** for inductees who were inducted where no School Chapter exists
 - There may be a local Branch of IEEE-HKN Eta Chapter at a school without an IEEE-HKN Student Chapter
- **Alumni Chapters** of inductees defined by geographic designation



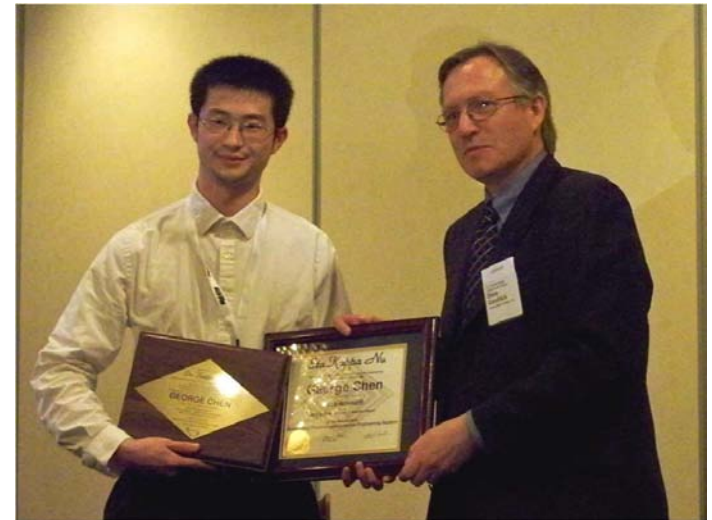
IEEE-HKN continues to:

- Publish *The Bridge* magazine
- Hold an Annual IEEE-HKN Student Leadership Conference organized by the students
- Accept requests for new Student and Alumni Chapters (worldwide)
- Accept nominations for IEEE-HKN Eminent Member designation



IEEE-HKN has an Awards Program

- [Outstanding Chapter Award](#)
- [Alton B. Zerby and Carl T. Koerner Outstanding Electrical and Computer Engineering Student \(OECES\) Award](#)
- [Outstanding Young Electrical and Computer Engineer Award \(OYECE\)](#)



IEEE-HKN has an Awards Program

- [C. Holmes MacDonald Outstanding Electrical and Computer Engineering Teacher Award](#)
- [Vladimir Karapetoff Outstanding Technical Achievement Award](#)
- [Distinguished Service Award \(DSA\)](#)



IEEE-HKN: Induction & Membership



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What is the Difference Between IEEE-HKN Induction and Membership?

- **IEEE-HKN (or HKN) induction is for life**
 - To be eligible for induction into IEEE-HKN, a candidate shall be a member of IEEE of any grade (or join simultaneously at the time of induction)
 - For students IEEE-HKN induction fee includes IEEE student membership for the year inducted
- **IEEE-HKN membership requires maintaining current membership in IEEE (in any member grade)**



IEEE-HKN Induction Categories

■ IEEE-HKN Member

- May be inducted as a member if you meet the qualifications and are one of the following: undergraduate student, graduate student, faculty member or professional
- Only by invitation to join provided by an IEEE-HKN Chapter: any Student Chapter or the Eta Chapter
- For induction requirements go to:
<http://www.hkn.org/membership/index.asp>

■ IEEE-HKN Eminent Member

- May be inducted as an eminent member if you meet the qualifications and are one of the following: faculty member or professional
- For qualification requirements and nomination process information go to: <http://www.hkn.org/awards/ema.asp>



Undergraduate Students Qualified to be Candidates for IEEE-HKN Induction are:

- **Students in a first professional degree program in an IEEE-designated field of interest** at an educational institution where an **active IEEE-HKN Student Chapter** exists
- **And**
 - Undergraduate Students who have completed at least one-third of the degree requirements and who have a cumulative scholastic rank in the upper fifth of their class may be elected
 - Undergraduate Students who have completed one-half of the degree requirements and who have a cumulative scholastic rank in the upper quarter of their class may be elected
 - Undergraduate Students who have completed three-fourths of their degree requirements and have a cumulative scholastic rank in the upper third of their class may be elected



Graduate Students Qualified to be Candidates for IEEE-HKN Induction are:

- Graduate Students who have **graduated with a first professional degree from a school of recognized standing approved by the IEEE-HKN Board of Governors**
- **And meet all the following requirements:**
 - Possess substantially the same scholastic and other qualifications as required for Undergraduate Student candidates
 - Are working toward an advanced degree in one of the IEEE-designated fields of interest and have completed one-half of one academic year of full-time study in an IEEE-HKN recognized institution
 - Have been nominated by any member of IEEE-HKN
 - Are endorsed for membership in IEEE-HKN by the Head of the academic department wherein this student conducts the majority of his or her studies
- Induction will be into the active IEEE-HKN Student Chapter at the educational institution they attend or into a Branch of IEEE-HKN Eta Chapter



Non-Students Qualified for IEEE-HKN Induction are:

- **Non-Students** (Faculty or Professionals) not inducted into HKN or IEEE-HKN as students are **eligible to be inducted into IEEE-HKN**, that have demonstrated meritorious work in an area that falls within one of the IEEE-designated fields of interest
- To be invited for induction by an active IEEE-HKN School Chapter, the IEEE-HKN School Chapter faculty advisor and the Head of the relevant academic unit shall give their approvals
 - Approvals shall explicitly state the candidate's meritorious achievements
 - Invitation is valid only for the specific school term or semester in which it is offered.
- To be considered as a candidate for **induction into IEEE-HKN Eta Chapter**
 - An individual shall be nominated by any member of IEEE-HKN or IEEE-HKN Alumni Chapter
 - Nominations are sent to IEEE-HKN at IEEE Headquarters for review and disposition.
 - IEEE-HKN Board of Governors can induct Members into Eta Chapter



Becoming an IEEE-HKN Eminent Member

- **Reserved for** those **individuals who** by their technical attainments and contributions to society, have shown themselves to be outstanding leaders in an IEEE-designated field of interest and great benefactors to society.
- **Nominations to Eminent Membership** may be submitted by:
 - An active IEEE-HKN School Chapter
 - An active Alumni Chapter
 - Any member of IEEE-HKN
- IEEE-HKN Eminent Membership is **conferred by the IEEE-HKN Board of Governors**



Some Prominent Inductees

■ Eminent Member

- **Amar Bose**, inventor of the Bose Speakers
- **Tsuneo Nakahara**, past VP Sumitomo Electric Industries & Past Director IEEE Region 10
- **José (Pepé) F. Valdez C.**, co-founder Piazza y Valdez Ingenieros & co-founder IEEE Peru Section
- **Steve Wozniak**, co-founder Apple Computer Inc.
- **Irwin (Eminent Member) and Paul (Member) Jacobs**, founders of Qualcomm

■ Member

- **Larry Page**, founder of Google
- **Eric Schmidt**, CEO Google
- **Sabeer Bhatia**, founder of Hotmail
- **David Filo**, founder of Yahoo
- **Henry Samueli**, founder of Broadcom

IEEE-HKN Costs & Benefits at Induction

- **What does it cost to be inducted into IEEE-HKN?**
 - Effective 1 January 2011, USD 50.00
 - Effective 1 January 2012, USD 60.00
- **What do I receive as an inductee to IEEE-HKN?**
 - 2-year subscription to *The Bridge*, IEEE-HKN's flag publication
 - Free one-year membership into IEEE of newly inducted Students and Graduate Students



IEEE-HKN Membership

- **Membership consists of students, alumni, and other professionals who have demonstrated exceptional academic and professional accomplishments**
 - Requires maintaining “active” membership status in any IEEE member grade (paying annual IEEE dues)
 - Appears on the IEEE Annual Membership card under individual’s IEEE member grade designation (e.g., IEEE-HKN MEMBER)
 - HKN and IEEE-HKN induction is for life (e.g., Inducted into Eta Kappa Nu Honor Society, 2009)
 - Active membership in IEEE-HKN requires IEEE dues to be current



IEEE-HKN Membership (cont'd)

- **What Chapter do IEEE-HKN members belong to?**
 - Member of the Student Chapter where they were inducted (their name appears in the Chapter's book of inductees)
 - Members of the Eta Chapter where no School Chapter exists
 - Alumni Chapters are opt-in organizations defined by geographic designation for any IEEE-HKN member category



Why become an IEEE-HKN member?

- **IEEE-HKN members are known for their:**

- Leadership
- Teamwork
- Quality
- Character



- **Participate in service and social activities**
- **Students build leadership skills and meet other IEEE-HKN members at Student Leadership Conferences**
- **Enjoy a 2-year subscription to *The Bridge* magazine as a new member**
- **Build your resumé and include active membership in a prestigious honor society**



IEEE-HKN: School Chapters & IEEE Organizational Units



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Why IEEE-HKN for Students?

- Membership in IEEE-HKN recognizes a student's academic achievement, as well as his/her potential as a leader, both in school and in their professional careers
- Having a student member category within IEEE or IEEE-HKN Member can be a powerful inducement to retain a Student or Graduate Student as a member of IEEE after graduation



What does an IEEE-HKN Student Chapter do?

- Induct qualified students, professionals and faculty into their Student Chapter as IEEE-HKN members
- Engage in a large variety of service activities, including tutoring, technical competitions, community outreach, and outreach to high schools
- Organize scholarly activities
- Provide assistance to students through tutoring and organizing help sessions on different subjects
- Participate in social outreach activities to the community
- Organize activities for pre-university students on engineering and science (e.g., science fairs)



Interested in Forming a School Chapter of IEEE-HKN?

- **School Chapters may be established at:**
 - Any college or university that awards the Bachelor of Engineering degree, Bachelor of Science degree,
 - Or an equivalent degree within an IEEE-designated field of interest
 - Where the school meets the requirements of a recognized regional or professional accrediting agency
- **Determination of eligibility of a school to establish a School Chapter** shall be made by the IEEE-HKN Board of Governors in consultation with:
 - The pertinent accreditation agencies,
 - Educational organizations, and
 - IEEE organizational units



Interested in Forming a Student Chapter? (cont'd)

- **Process for forming an IEEE-HKN School Chapter is on the IEEE-HKN Website under Chapter Info**
 - Appropriate university administrators must support the formation of an IEEE-HKN chapter on campus
 - Establishment of a School Chapter may be made by no fewer than eight (8) undergraduate students who are qualified for membership
 - Submit letter to IEEE-HKN at IEEE-HKN Headquarters
 - Written endorsements of officials are required by the educational institution (such as President, Provost, Dean or Department Head)
 - Endorsements shall be provided at least from a Dean and a Department Head from a department which focuses on at least one of the IEEE-designated fields of interest
 - Submit proposed Chapter bylaws to help govern the Chapter
- **IEEE-HKN School Chapters shall be installed by the IEEE-HKN President, or an authorized representative appointed by the President**
- **Officers of a School Chapter** shall be the President, Vice-President, Recording Secretary, Corresponding Secretary, News Correspondent and Treasurer as **defined in the *IEEE Eta Kappa Nu Operations Manual***



IEEE-HKN School Chapters and IEEE Student Branches - Basics

- **Both are IEEE Organizational Units (OUs); however,**
 - IEEE-HKN School Chapters report through the IEEE-HKN Board of Governors that reports to EAB
 - IEEE Student Branches report through their assigned IEEE Geographic Organization (Section, Region, etc.) that reports to MGA
 - IEEE-HKN School Chapters are assigned to a single IEEE-HKN geographic region (this is in addition to the IEEE Region where the school resides)
 - IEEE Student Branches can also have IEEE Student Branch (technical) Chapters and IEEE Student Affinity Groups (GOLD, WIE, etc.)
- **IEEE-HKN School Chapters are separate IEEE OUs from the IEEE Student Branches at their schools**
- **IEEE-HKN School Chapters may collaborate with the IEEE Student Branches at their schools**



IEEE-HKN School Chapters and IEEE Student Branches - Faculty

- **IEEE-HKN School Chapters** have **Faculty Chapter Advisors** who have been inducted into IEEE-HKN or HKN and are current IEEE members
- **IEEE Student Branches** have **Faculty Branch Counselors** who are current IEEE members
- **IEEE Student Branch (technical society and councils) Chapters** have **Faculty Chapter Advisors** who are a current IEEE member and a member of the corresponding IEEE Society or a member of at least one IEEE Member Society for technical council chapters.
- **IEEE Student Affinity Groups** (GOLD, WIE, etc.) have **Faculty Affinity Group Advisors** who are a current IEEE member and for WIE affinity groups a Women in Engineering (WIE) member.



IEEE-HKN School Chapters and Other IEEE membership OUs

- **Eligible to participate in the following OU student activities or opportunities to the extent defined by the individual OU:**
 - IEEE Major Boards and Committees
 - IEEE Regions and IEEE Divisions
 - IEEE Sections, Subsections, technical Chapters and Affinity Groups
 - IEEE Technical Societies and Councils
- **For IEEE-HKN School Chapters located within IEEE Regions 1 – 6; eligible to participate in IEEE-USA student activities or opportunities, including:**
 - Eligible for all IEEE-USA university programs such as Washington Internships for Students of Engineering (WISE), Student Professional Awareness Conferences (SPACs), etc.
 - Eligible to submit requests for PACE project funding to IEEE OUs with PACE budgets.



IEEE-HKN Alumni Chapters, IEEE Organizational Units & Professionals



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What is IEEE-HKN Eta Chapter?

- **Provides for IEEE-HKN membership of:**
 - Qualified undergraduate and graduate students in schools where no IEEE-HKN School Chapter exists
 - Qualified faculty in schools where no IEEE-HKN School Chapter exists
 - Qualified professional not invited for induction by another IEEE-HKN Chapter
 - Provides a Chapter home for IEEE-HKN members who for any reason are not part of an existing Chapter (School or Alumni)
- **There may be a branch of IEEE-HKN Eta Chapter at a school without an IEEE-HKN Student Chapter**
- **The Officers of IEEE-HKN serve as the Officers of IEEE-HKN Eta Chapter**



What are IEEE-HKN Alumni Chapters?

- Provide for strengthening and furthering the aim of IEEE-HKN by alumni members
- **To be active an IEEE-HKN Alumni Chapter must:**
 - Consist of 5 or more active IEEE-HKN members
 - Have elected officers
 - Complete and submit an Alumni Chapter Annual Report to the IEEE-HKN Board of Governors
- Active IEEE-HKN Alumni Chapters **may induct qualified non-students** as IEEE-HKN members
- Active IEEE-HKN Alumni Chapters shall not be subject to any **Chapter assessment or Chapter dues** other than by a vote of its members



Interested in Forming an Alumni Chapter of IEEE-HKN?

- **May be established in any locality** (geographic location) where there is no existing active IEEE-HKN Alumni Chapter
- **Established by:**
 - Petition of at least 5 IEEE-HKN members and
 - Approval by the IEEE-HKN Board of Governors
- **Send petition to IEEE-HKN at IEEE Headquarters**



Historic IEEE-HKN Alumni Chapters

- **IEEE-HKN Los Angeles Chapter**
 - Currently active
 - Was an active HKN Alumni Chapter
 - For Chapter information, contact: Tom Rothwell, k6zt@juno.com; (562) 431-4831
- **HKN Philadelphia Chapter**
 - Was an inactive HKN Alumni Chapter
 - Dissolved prior to merger with IEEE
 - May be reinstated to active IEEE-HKN Alumni Chapter status according to the *IEEE Eta Kappa Nu Operations Manual*



IEEE-HKN Alumni Chapters and Other IEEE membership OUs

- **Eligible to participate in the following OU activities or opportunities to the extent defined by the individual OU:**
 - IEEE Major Boards and Committees
 - IEEE Regions and IEEE Divisions
 - IEEE Sections, Subsections, technical Chapters and Affinity Groups
 - IEEE Technical Societies and Councils
- **For IEEE-HKN Alumni Chapters located in IEEE Regions 1–6; eligible to participate in IEEE-USA activities or opportunities, including:**
 - Eligible to submit requests for PACE project funding to IEEE OUs with PACE budgets.



Professionals & IEEE-HKN Membership

- **If you were inducted into IEEE-HKN or HKN and are a current IEEE member of any grade, you are an IEEE-HKN member**
 - IEEE-HKN MEMBER or IEEE-HKN EMINENT MEMBER should appear on your annual IEEE membership card below your IEEE member grade
 - If your 2011 IEEE membership card does not show IEEE-HKN membership contact IEEE-HKN at IEEE Headquarters with your IEEE member number and when and where you were inducted so that it can appear on your 2012 IEEE membership card

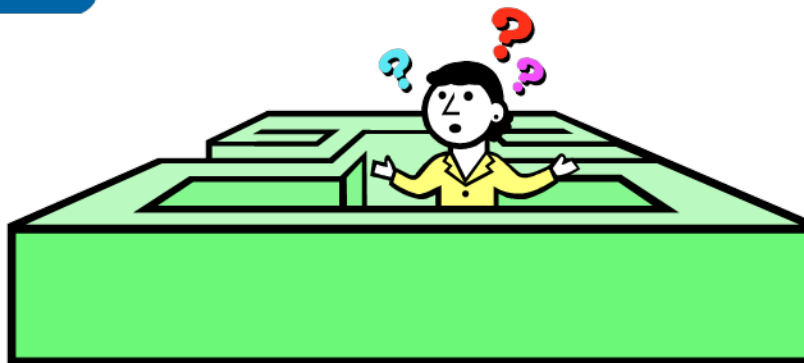


Professionals & IEEE-HKN Membership (cont'd)

- If you were **not inducted** into **IEEE-HKN** or **HKN** and you **meet the requirements** for candidacy in IEEE-HKN
- **You may be nominated as a candidate for IEEE-HKN membership by:**
 - An IEEE-HKN Student Chapter
 - An IEEE-HKN Alumni Chapter
 - IEEE-HKN Eta Chapter
 - An active IEEE-HKN member



IEEE-Eta Kappa Nu (IEEE-HKN)



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