IEEE-HKN; Recognizing Excellence and Building Leadership Skills

Evelyn Hirt
IEEE-HKN Vice President

IEEE USA Annual Meeting
3 August 2013
What is IEEE-HKN
- IEEE-HKN Student & Alumni Chapters

Belonging to IEEE-HKN
- Member / Inductee
- Building an IEEE-HKN Professional Community

Other IEEE OUs & IEEE-HKN Interaction
What is IEEE-HKN

- Eta Kappa Nu (HKN) **Founded in 1904** by Maurice Carr at the University of Illinois
  - Members serve the community, university, and department in various activities
  - Inducted both student and professional members (as either member or eminent member classifications)

- **Merged with IEEE in 2010** - now IEEE-HKN
  - Both student and alumni chapters
  - 240 Chapters at Universities worldwide
  - Within IEEE OUs under EAB

- **We are the honor society of IEEE**
  - Candidates are invited to join based on their academic ranking, their character and attitude. The goal is to be the catalyst for the development of “The Complete Technical Professional.”
Recognize Excellence

Develop a Professional Community

Provide Service to Others

The IEEE-HKN Chapter is a key organizational unit within IEEE-HKN and IEEE.
Identifies and invites candidates to join their chapter as IEEE-HKN members.

Organize scholarly activities such as technical talks, industry visits, distinguished lecturers.

Chapters enjoy a close relationship with faculty and often invite faculty for lunch or special sessions.

Chapters assist their peers through tutoring, exam preparation, peer mentoring, technical competitions, community outreach to pre-University students, and to the community at large.
Knowledgeable Officers and Committees

Chapter Strategy, Operation Plan and Reporting

Membership involvement

Supportive IEEE-HKN Faculty Advisor

Working relationship with:
  – IEEE-HKN Headquarters
  – Other local IEEE organizational units
Chapters may be established at:

- Any college or university that awards the Bachelor of Engineering, Bachelor of Science degree,
- Or an equivalent degree within the IEEE Technical Fields of Interest
- Where the school meets the requirements of a recognized regional or professional accrediting agency

Eligibility of a school chapter is determined by the IEEE-HKN Board of Governors in consultation with appropriate accreditation agencies, educational organizations, and other IEEE organizational units,
IEEE-HKN HEADQUARTERS PROVIDES OPERATIONAL SUPPORT

• Support to individuals inducted into IEEE-HKN and HKN
  • Includes helping IEEE members who are former HKN inductees to be recognized as IEEE-HKN members
• Support for the Student Leadership Conference
• Support for the IEEE-HKN Chapters

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Nancy M. Ostin, Director IEEE-HKN
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BELONGING TO IEEE-HKN
IEEE-HKN Members

- Our members are known for their:
  - Leadership
  - Teamwork
  - Quality
  - Character

- Invited to Join
  - Inducted for life
  - Maintain IEEE-HKN membership by maintaining IEEE membership
Benefits of IEEE-HKN

- Participate in service activities
- Build leadership skills
- Establish professional network
  - Involvement in IEEE-HKN and IEEE activities
  - Meet other IEEE-HKN members at our Leadership Conferences
- Have fun! Participate in social activities
The Bridge Magazine

- The signature publication of IEEE-Eta Kappa Nu is the BRIDGE magazine. Named after the “wheatstone bridge”, the symbolism reflects our goal to assist members to obtain balance in their professional and personal lives.
- All members receive a complimentary subscription
- the BRIDGE is available on www.hkn.org
  - Digital Issues Spring, Summer, and Fall
  - Technical and Professional Features
  - IEEE-HKN News and Awards
  - Chapter Special Events
What Fields of Interest are Eligible for Induction into IEEE-HKN?

- Any field of interest recognized by IEEE
  - See IEEE membership site for details
  - Also represented by the fields of interest of IEEE Societies and Technical Councils

- Eligibility is much more inclusive than before the merger with IEEE
Candidates must meet the criteria established and invited to join by their Chapter:

- **Undergraduate students** – those pursuing their first academic degree in their second through fourth year.

- **Graduate Students** – are inducted based on faculty recommendation.

- **Faculty Members** – are encouraged to join to support the work of the Chapter

- **Professional Members** – those who have done meritorious work in one of the areas of the IEEE-designated technical fields.
For Students: Academic criteria will be established for your country and University, basically the top students in their 2, 3, or 4th year of their first academic degree.

Character: An individual must be of exceptional character demonstrating such character to their peers.

Attitude: An individual must have the proper attitude to work hard, continually challenging himself/herself, willing to help others, and to use their talents and superior skills in service to their University, Department and peers.
By IEEE-HKN Chapter:

- Professionals within the IEEE Fields of Interest who have a distinguished record in industry, government, education, or management may be initiated by your Chapter.
- They need not be graduates of your school, nor is it necessary for you to inquire into their academic records.
- Inducted into your Chapter
- Approval must be consistent with IEEE-HKN policies and procedures.

By IEEE-HKN Board
Some Famous HKN Inductees

Vinton Cerf
Eminent Member
Vice President & Chief Internet Evangelist for Google

Steve Wozniak
Eminent Member
Co-founder Apple Computer Inc

H. Vincent Poor
Eminent Member
Dean of Engineering and Applied Science at Princeton

Gordon Moore
Member
Co-founder & Chairman Emeritus of Intel Corporation

Leah Jamieson
Eminent Member
Dean of Engineering at Purdue
BUILDING AN IEEE-HKN PROFESSIONAL COMMUNITY

“This is what we strive for as members of Eta Kappa Nu: to lead a balanced life, a life in which scholarship, character, and attitude are jointly developed.” Initiation Ritual
Invitations to Join IEEE-HKN

Local and Society Awards

Professional Election and Awards

Members are *elected* based on Scholarship, Character, and Attitude.
The Annual IEEE-HKN Student Leadership Conference is free for all IEEE-HKN student members. The networking, distinguished speakers, and chapter development activities are extremely valuable.
Ideas for IEEE-HKN Student Chapter Service and Outreach

- Project Laboratories, Study Rooms, etc.
- Fundraising (Workdays, Kit Sales, etc.)
- Departmental Tours, Help Sessions, etc.
- Pre-college Outreach (PLTW, BS Merit Badge, Career Visits, etc.)
- Recycle, Clean-up, and Planting
- Volunteer Support of Charities
IEEE Student Awards & Scholarships

- **Outstanding Student Award**
  The Alton B. Zerby and Carl T. Koerner Outstanding Student Award recognizes outstanding scholastic excellence and high moral character, coupled with demonstrated exemplary service to classmates, university, community, and country. This program is administered by the Los Angeles Area Alumni Chapter.

- **Who is eligible?**
  Chapters nominate Outstanding Graduating Senior.
  Must graduate with a Bachelors degree during the academic year in which they are nominated.

- **What is required?**
  Nominees complete an application and questionnaire for review by the committee by June 30.

- **The Award**
  Committee selects recipient and honorable mentions based on review. Winner receives an engraved plaque, a $1,000 cash award and travel reimbursement to attend the ECEDHA meeting in March to receive the award.
Key Award Deadlines

IEEE-HKN Award Deadlines:
- Chapter Activities Award: **Oct 15**
- Outstanding Student Award: **Jun 30**
- Outstanding Teaching Award: **Apr 30**
- Outstanding Young Professional Award: **Apr 30**
- Outstanding Technical Achievement Award: **Apr 30**
Ideas for IEEE-HKN Chapters to Build a Local Professional Community

- Pledging Process and Initiation
- Career Events, Job Fair, Resume CDs, etc.
- Faculty, Alumni, and Industry Networking
- Leadership Training (S-PAC Opportunity!)
- Social Activities, Picnics, Games, etc.
- Events with IEEE Student Branch, local Section, etc.
Other IEEE OUs & IEEE-HKN Interaction
 You must be invited to join.

 IEEE-Eta Kappa Nu students are expected to perform community service to their Universities, Departments, peers, and the community. Last year of the 26 Chapter recognized as “Outstanding” a cumulative 50,000 hours of service for an average of 50 hours per person.

 IEEE-Eta Kappa Nu students serve as a role model to others, always demonstrating our highest ideals.

 IEEE-Eta Kappa Nu students put on programs for others, the focus is on being of service to others, developing your skills, and commitment to the profession.
Roles of the IEEE-HKN Student Chapter Faculty Advisor

- Liaison to the Department Chair(s), IEEE Student Branch Counselor, IEEE Student Chapter Faculty Advisors, other Faculty, and Alumni
- Oversight (compliance with university and IEEE-HKN rules and procedures)
- Mentor to the IEEE-HKN members, especially the student officers
IEEE Member and Geographic Activities (MGA)

- Student Activities Council (SAC)
- IEEE Regions and Sections
- IEEE Student Branches
  - IEEE Student Branch Chapters
    ▪ Also affiliated with IEEE Societies or Technical Chapters
  - IEEE Student Affinity Groups
    ▪ Also affiliated with non-technical IEEE organizational units (e.g., GOLD, WIE, etc.)
IEEE MGA

Includes all IEEE geographic organizational units:
- Regions,
- Sections, Subsections, (technical) Chapters,
- Affinity Groups (e.g., GOLD, WIE, Consultants Networks),
- Student Branches, Student Branch (technical) Chapters,
- Student Branch Affinity Groups
<table>
<thead>
<tr>
<th>Career &amp; Member Services</th>
<th>Government Relations</th>
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<tr>
<td>(CareerNavigator, Salary Service, Consultants, Entrepreneurs, IP Professionals, career webinars, etc.)</td>
<td>(policy advocacy on S&amp;T and career/workforce issues affecting member’s careers, CARE grassroots network, government fellowships, WISE Internships, etc.)</td>
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<tr>
<th>Professional Activities</th>
<th>Communications &amp; Public Awareness</th>
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<tr>
<td>(supporting local section/chapter/branch professional activities through the PACE Network, student/SPAC conferences, Professional Development Seminars, the Annual Meeting, etc.)</td>
<td>(Awards &amp; Recognitions, IEEE-USA in Action e-zine, Ebooks, annual E-Week celebration, Future Cities Competition, Introduce a Girl to Engineering, “Discoveries &amp; Breakthroughs”, Mass Media Fellows, Engineering Video Contest, etc.)</td>
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IEEE & Student Career Development Activities

- **S-PAC: Student Professional Awareness Conferences**
  Structured events organized by student branches where students listen to experienced engineers from diverse backgrounds and discuss topics from the six critical professional development categories.
  - S-PACs normally involve presentation(s) and panel sessions.
  - The keynote speaker from the S-PAC national speaker database is funded by the IEEE-USA Student Professional Awareness Committee.

- **S-PAVe: Student Professional Awareness Ventures**
  Projects or activities organized by IEEE students (e.g., IEEE Student Branches) to develop an awareness of engineering professionalism.
  - S-PAVes are generally focused on one professional development category and do not have to be a conference format.
BACK-UP SLIDES
College Chapter Directory

- Air Force Institute of Technology Delta Xi
- Arizona State University Epsilon Beta
- Auburn University Xi
- Baylor University Kappa Tau
- Bharati Vidyapeeth's College of Engineering Lambda Eta
- Binghamton University Kappa Epsilon
- Boise State University Kappa Pi
- Boston University Kappa Sigma
- Brigham Young University Zeta Eta
- California Polytechnic State University of San Luis Obispo Epsilon Phi
- California State Polytechnic University, Pomona Zeta Theta
- California State University, Chico Iota Zeta
- California State University, Fresno Theta Kappa
- California State University, Long Beach Epsilon Theta
- California State University, Los Angeles Epsilon Nu
- California State University, Northridge Lambda Beta
- Carnegie Mellon University Sigma
- Case Western Reserve University Zeta
- City College of New York Beta Pi
- Clarkson University Gamma Gamma
- Clemson University Zeta Iota
- Cleveland State University Epsilon Alpha
- Colorado State University Delta Pi
- Cornell University Kappa
- Dalhousie University Lambda Theta
- Drexel University Beta Alpha
- Duke University Delta Lambda
- Embry-Riddle Aeronautical University Kappa Iota
- FAMU-FSU Lambda Delta
- Florida Institute of Technology Zeta Epsilon
- Florida International University Kappa Delta
- Gannon University Iota Nu
- Georgia Institute of Technology Beta Mu
- Hofstra University Lambda Xi
- Howard University Lambda Gamma
- Illinois Institute of Technology Delta
- Indiana University-Purdue University, Indianapolis Kappa Rho
- Iowa State University Nu
- Johns Hopkins University Gamma Upsilon
- Kansas State University Beta Kappa
College Chapter Directory

- Kettering University Theta Epsilon
- Lafayette College Gamma Psi
- Lamar University Delta Beta
- Lawrence Technological University Theta Upsilon
- Lawrence Technological University Theta Upsilon
- Louisiana State University Delta Iota
- Louisiana Tech University Delta Gamma
- Manhattan College Gamma Alpha
- Marquette University Beta Omicron
- Massachusetts Institute of Technology Beta Theta
- Miami University Lambda Omicron
- Michigan State University Gamma Zeta
- Michigan Technological University Beta Gamma
- Milwaukee School of Engineering Iota Beta
- Mississippi State University Gamma Omega
- Missouri University of Science and Technology Gamma Theta
- Montana State University Iota Kappa
- National University of Singapore Lambda Omega
- Naval Postgraduate School Theta Delta
- New Jersey Institute of Technology Gamma Kappa
- New Mexico State University Gamma Chi
- North Carolina A&T State University Theta Nu
- North Carolina State University Beta Eta
- Northeastern University Gamma Beta
- Northwestern University Beta Tau
- Norwich University Theta Xi
- Oakland University Iota Chi
- Ohio State University Gamma
- Ohio University Delta Epsilon
- Oklahoma State University Omega
- Oregon State University Pi
- Pennsylvania State University Epsilon
- Polytechnic Institute of New York University Zeta Sigma
- Portland State University Iota Theta
- Prairie View A&M University Zeta Lambda
- Purdue University Beta
- Rensselaer Polytechnic Institute Beta Nu
- Rice University Theta Rho
- Rose-Hulman Institute of Technology Epsilon Eta
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<tr>
<td>Rutgers University Gamma Epsilon</td>
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<tr>
<td>San Diego State University Zeta Tau</td>
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<tr>
<td>South Dakota School of Mines and Technology Beta Chi</td>
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<tr>
<td>South Dakota State University Gamma Rho</td>
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<tr>
<td>Southern Illinois University at Carbondale Lambda Epsilon</td>
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<tr>
<td>Southern Methodist University Gamma Omicron</td>
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<tr>
<td>Southern University and A&amp;M College Zeta Psi</td>
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<tr>
<td>Stevens Institute of Technology Iota Delta</td>
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<tr>
<td>Stony Brook University Theta Mu</td>
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<tr>
<td>SUNY- New Paltz Kappa Omicron</td>
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<tr>
<td>Tecnologico de Monterrey Lambda Rho</td>
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<tr>
<td>Temple University Iota Sigma</td>
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<tr>
<td>Tennesse Technological University Epsilon Rho</td>
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<tr>
<td>Tennessee State University Zeta Kappa</td>
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<td>Texas A&amp;M University Gamma Mu</td>
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<td>Texas A&amp;M University - Kingsville Zeta Beta</td>
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<td>Texas A&amp;M University at Qatar Lambda Mu</td>
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<tr>
<td>Texas Tech University Gamma Nu</td>
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<tr>
<td>The Cooper Union Delta Chi</td>
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<tr>
<td>The University of Hong Kong Lambda Iota</td>
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<td>Trine University Zeta Phi</td>
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<td>Tufts University Epsilon Delta</td>
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<td>Tulane University Theta Alpha</td>
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<td>Tuskegee University Epsilon Upsilon</td>
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<td>Union College Phi</td>
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<tr>
<td>United States Military Academy Iota Phi</td>
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<tr>
<td>United States Naval Academy Lambda Kappa</td>
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<tr>
<td>University at Buffalo Zeta Pi</td>
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<tr>
<td>University of Alabama - Huntsville Theta Eta</td>
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<tr>
<td>University of Alabama, Tuscaloosa Delta Nu</td>
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<tr>
<td>University of Arizona Iota Xi</td>
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<td>University of Arkansas Gamma Phi</td>
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<td>University of Arkansas Gamma Phi</td>
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<tr>
<td>University of California - Berkeley Mu</td>
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<tr>
<td>University of California - Irvine Zeta Omega</td>
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<tr>
<td>University of California - Los Angeles Iota Gamma</td>
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<tr>
<td>University of California - San Diego Kappa Psi</td>
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<tr>
<td>University of California - Santa Barbara Epsilon Tau</td>
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<tr>
<td>University of Central Florida Zeta Chi</td>
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<tr>
<td>University of Cincinnati Tau</td>
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<tr>
<td>University of Colorado at Boulder Rho</td>
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<tr>
<td>University of Colorado, Colorado Springs Theta Chi</td>
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</tbody>
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College Chapter Directory

- University of Connecticut Beta Omega
- University of Dayton Iota Eta
- University of Delaware Epsilon Omicron
- University of Detroit Mercy Beta Sigma
- University of Evansville Eta - Evansville
- University of Florida Epsilon Sigma
- University of Hartford Iota Epsilon
- University of Hawaii, Manoa Delta Omega
- University of Houston Epsilon Epsilon
- University of Illinois - Chicago Iota Lambda
- University of Illinois at Urbana-Champaign Alpha
- University of Kansas Gamma Iota
- University of Kentucky Beta Upsilon
- University of Louisiana, Lafayette Delta Tau
- University of Maine Delta Kappa
- University of Maryland, College Park Gamma Xi
- University of Massachusetts - Amherst Delta Eta
- University of Massachusetts - Dartmouth Zeta Xi
- University of Massachusetts Lowell Epsilon Zeta
- University of Miami Epsilon Kappa
- University of Michigan - Ann Arbor Beta Epsilon
- University of Michigan - Dearborn Theta Tau
- University of Minnesota Omicron
- University of Mississippi Epsilon Omega
- University of Missouri Iota
- University of Missouri - Kansas City Theta Pi
- University of Nevada - Reno Theta Psi
- University of New Haven Zeta Rho
- University of New Mexico Delta Omicron
- University of New Orleans, Lakefront Iota Rho
- University of North Carolina, Charlotte Kappa Phi
- University of North Dakota Delta Rho
- University of North Florida Kappa Nu
- University of North Texas Lambda Zeta
- University of Notre Dame Delta Sigma
- University of Oklahoma Beta Xi
- University of Pennsylvania Lambda
- University of Pittsburgh Beta Delta
- University of Rhode Island Zeta Gamma
- University of San Diego Kappa Eta
College Chapter Directory

- University of Scranton Lambda Nu
- University of South Alabama Theta Lambda
- University of South Florida Kappa Xi
- University of Southern California (USC) Upsilon
- University of Tennessee, Knoxville Beta Phi
- University of Texas at Arlington Epsilon Mu
- University of Texas at Austin Psi
- University of Texas at El Paso Zeta Delta
- University of Texas at San Antonio Kappa Upsilon
- University of Toledo Epsilon Gamma
- University of Tulsa Zeta Nu
- University of Virginia Gamma Pi
- University of Washington Iota Upsilon
- University of West Florida Lambda Alpha
- University of Wisconsin - Madison Theta
- University of Wisconsin - Platteville Kappa Theta
- University of Nebraska - Lincoln Beta Psi
- University of South Carolina Delta Phi
- Vanderbilt University Epsilon Lambda

- Villanova University Delta Mu
- Virginia Commonwealth University Kappa Chi
- Virginia Military Institute Theta Phi
- Virginia Tech Beta Lambda
- Washington University, St. Louis Delta Zeta
- West Virginia Institute of Technology Zeta Omicron
- West Virginia University Beta Rho
- Western Michigan University Kappa Omega
- Wichita State University Epsilon Xi
- Worcester Polytechnic Institute Gamma Delta
The educational institution where the Chapter resides must offer undergraduate or graduate degree programs leading to a first professional degree in an IEEE-designated field of interest (typically Bachelor of Science or Bachelor of Engineering, and in some areas Master of Science or Master of Engineering). The designated fields include: Engineering, Computer Sciences and Information Technology, Physical Sciences, Biological and Medical Sciences, Mathematics, and Technical Communications.

The school’s technical programs must be recognized by an accrediting agency.

The Department Chair, Dean of Engineering, and other appropriate university administrators must support the formation of an IEEE-HKN Chapter on your campus.

A minimum of eight (8) eligible students must be identified to establish the Chapter and prepare the required submission materials. These students will become the charter members of the new Chapter.

The Engineering programs combined must graduate a minimum of twenty-four (24) students annually. This requirement will help to guarantee the long-term viability and critical mass of the Chapter.
IEEE-HKN Student Chapter Reporting

- New Member Requisition
- Notice of Election of Officers
- IRS Reporting
  - Through School (student club account) or IEEE (Chapter account)
  - If Chapter account: IRS form 990a to IEEE-HKN Headquarters

IEEE-HKN Chapter Deadlines:
- Chapter Annual Report: June 30
- Chapter Activities Award: Oct. 15
Process for forming an IEEE-HKN Chapter is on the IEEE-HKN Website www.hkn.org

http://www.hkn.org/admin/new_chapter.asp

1. letter from a minimum of at least 8 eligible students wishing to establish the chapter and become its charter members

2. letter of endorsement from the university officials to establish the chapter and support its formation on campus

3. letter from university officials stating the school met requirements of a recognized regional or professional accrediting agency

4. proposed operations manual for the new chapter (sample provided)
Instructions
For chapters
Are found
Under the
“Chapter Info”
Tab
Why Join IEEE-Eta Kappa Nu?

- Employers around the world recognize the designation of HKN and understand that IEEE-HKN members are of the best candidates and are well rounded, articulate, and community minded.

- Network with the top students at every major University.

- Access to key University decision makers for references, research, and for Graduate School and beyond.

- Share a tradition with nearly 200,000 HKN inductees worldwide, this network will help you in your education, career, and professional development.
Recognition program that distinguishes you from other students, and acknowledge your academic achievements.

Provides leadership opportunities for your professional development, such as conferences, service on committees and the Board of Governors, service to your University, Department and fellow students.

The BRIDGE is the official publication, IEEE-HKN students are invited to submit papers for publication.

Awards such as the Outstanding Student, Outstanding Chapter, Outstanding Young Professional, Technical Professional, and Eminent Member.