Eta Kappa Nu
Candidate Information Packet

Spring 2019

Recruitment Director:
Emily Bartusiak (ebartusi@purdue.edu)

Initiation Committee:
Mridul Gupta(gupta431@purdue.edu)
Nathan Longo (longon@purdue.edu)
Alex Pieprzycki (apieprzy@purdue.edu)
Section 1  Membership Information

1.1 Membership Requirements

The requirements for HKN active membership are listed below.

1. Complete Membership Board

The Membership Board is a very important element of joining Eta Kappa Nu. It initiates opportunities for Candidates to meet current active members, approach and interact with professors and the ECE Department Head, and become acquainted with the operations of the Beta Chapter. By receiving an invitation to join HKN, candidates have already demonstrated their dedication to scholarship – the first pillar of HKN. Now, by fulfilling Membership Requirements and completing Membership Boards, they demonstrate character and attitude – the two other pillars of HKN.

Membership Boards can be acquired in the HKN Lounge during normal operating hours.

Candidates should carefully read the instructions on proper procedures regarding the Membership Board, located in Section 3 of this packet. Only one (1) board will be given to each Candidate, so it is imperative to understand the guidelines before starting to use it.

2. Meet Distinguished Purdue ECE Faculty

All Candidates are required to introduce themselves to and acquire the signatures of the Purdue Department Head of Electrical and Computer Engineering, the Faculty Advisor of Eta Kappa Nu, and four (4) Professors* of Electrical and Computer Engineering.

Please do not try to schedule an appointment with the Department Head or walk into his office to ask for his signature. A meeting with the Department Head for all Candidates has been scheduled [1]. Our Faculty Advisor has meeting times in which he tries to make himself available [2]. Be aware that these may change from week to week.

Candidates should respectfully approach professors of their choice. Some professors regard the HKN Membership Board signing as a minor nuisance, and it is therefore imperative that you be courteous when you call on a professor. You may need a graduate school recommendation someday, in which case you will be grateful that you were! Professors should be approached only during their office hours. If you
have no luck finding their office hours, then knock softly but firmly on their office
doors and inquire when they are. **Thank them and come back then.** Upon calling
on a professor during his/her office hours and hearing a "Come in...", walk in and
**introduce yourself.** Explain why you are joining HKN and why you are interested
in meeting that professor specifically, as opposed to the professor next door. Do not
just hand professors your Membership Board and say, "Sign this". Show your pride
in joining HKN, and remember that you are the face of the organization now!

[1] February 21, 2019, 1:00 pm – 2:00 pm in EE 122

[2] Mondays 1:30 pm – 2:30 pm in MSEE 362 or MSEE 399
   Tuesdays 10:00 am – 11:30 am in MSEE 362 or MSEE 399
   Wednesdays 10:00 am – 11:30 am in MSEE 362 or MSEE 399

*Note: Graduate students are not required to obtain signatures from professors, as it
is likely that they are already acquainted with the professors with whom they will be
working.

3. Attend One Exec-Com Meeting

   The Executive Committee meets weekly. They discuss information that will be
   presented at the eight (8) General Meetings held throughout the semester, which all
   active members attend. Candidates must attend one Exec-Com meeting to become
   familiar with business meetings. They occur on Mondays at 5:30 pm in the HKN
   lounge.

   After this requirement has been completed, the Candidate can acquire the signatures
   of the HKN President, Vice President, and Recording Secretary.

4. Submit a Resume to HKN Resume Book

   Candidates are required to send their resumes to the PR Director by completing the
   Google form: [https://goo.gl/forms/BxfSNrHtPcsqBO9C2](https://goo.gl/forms/BxfSNrHtPcsqBO9C2)

   After this requirement has been completed, the Candidate can acquire the signature of
   the HKN Public Relations Director.

5. Volunteer for a Community Service Project

   Candidates should perform approximately 2 hours of community service to satisfy
   this requirement. The dates of some events are listed below. Details about them and
   other events will be announced via e-mail. If none of the offered volunteer events
   work with your schedule or if you have ideas for other community service projects
   that you would be interested in doing, talk to the Initiation Committee to see if they
   are acceptable substitutions.
After this requirement has been completed, the Candidate can acquire the signature of the HKN Volunteer Director.

February 9, 2019 -- MathCounts Competition
February 13, 2019 -- Red Cross Blood Drive
February 23, 2019 – Polar Plunge

6. Attend one Social Event (TG)

Every week, the active members of HKN and their roommates, friends, and significant others descend upon a local eating and drinking establishment or participate in some other form of extracurricular activity, including but not limited to: ice skating, tailgating, attending sporting events, dancing the night away at Barn Dance, cheering at a Super Bowl party, sledding, hiking, paintballing, cooking out, rock climbing, and participating in board game nights. These weekend shindigs are better known by their abbreviated acronym “TG”, short for another acronym: “TGIF”. Upcoming TGs will be announced most commonly via email. A tentative schedule for this semester’s events is also posted on the HKN webpage’s calendar: https://engineering.purdue.edu/hkn/calendar.php.

After this requirement has been completed, the Candidate can acquire the signature of the HKN Events Director.

7. Perform Lounge Duty (POD)

All active members of HKN are required to work weekly Person-On-Duty (POD) shifts. During these 1-hour shifts, active members staff the HKN lounge, sell a vast array of snack foods and beverages to classmates and professors, bond with fellow HKN members, and do homework. Candidates for Membership are required to work 2 POD shifts during the semester to learn how the lounge operates. One shift must be either an opening shift (7:30 am – 8:30 am) or a closing shift (4:30 pm – 5:30 pm). The other shift should be neither the opening POD nor the closing POD (sometime 8:30 am – 4:30 pm). Sign up for PODS using the QR code or link below.

POD Signups:
https://docs.google.com/spreadsheets/d/1NtP-GQwcuLGlmg7u0ehHnLPDA8m9zhFGdhUM24rmpYE/edit?usp=sharing
After each POD is completed, the Candidate can acquire the signature of an active member of HKN who can vouch that the Candidate completed the POD. After both PODS are completed and the two active members’ signatures are obtained, the Candidate can acquire the signature of the HKN Operations Director.

8. Participate in Lounge Cleaning

Active members clean the HKN lounge at the start of each semester, and Candidates are responsible for cleaning the lounge mid-semester. This will occur on Saturday, February 23, 2019 at noon.

After this requirement has been completed, the Candidate can acquire the signature of the HKN Facilities Director.

9. Pay Dues

Candidates pay a one-time fee of $120 to be inducted into HKN. This includes a one-year IEEE Student Membership, one (1) ticket for attendance to the HKN banquet, an official HKN nametag, and an HKN paddle to be received by the member the semester of graduation. Candidates who are currently IEEE members will extend their current memberships.

After this requirement has been completed, the Candidate can acquire the signature of the HKN Treasurer.

10. Attend Initiation and Banquet

Initiation is a ceremony conducted by the officers of HKN to induct the Candidates who successfully complete all Membership Requirements into the honor society of Eta Kappa Nu. Initiation will take place on Saturday, March 30th, 2019.

The HKN banquet is a semester event in which all the members of Eta Kappa Nu dress to impress for a fancy evening of good company and great food. This is the first official event in which newly activated members are welcomed as full-fledged members of the organization, and farewells are said to the honored graduating members. During this event, awards are also presented to individuals demonstrating excellence in service to HKN and to professors who are recognized for exceptional teaching. The most anticipated event of the evening is the skit that the newly initiated members (i.e. all of you) perform for everyone. The banquet will take place immediately after initiation on Saturday, March 30, 2019 at 6:00 pm in the Purdue Memorial Union.

1.2 HKN Who’s Who

This information will help you become acquainted with the Executive Committee Officers, whose will sign your Membership Board after you complete his/her portion of the
membership process. You can find Exec-Com members at the Exec-Com meetings or at their PODs (posted in the lounge on the chalkboard). Pictures of all Officers are located on the HKN web page: http://hkn.ecn.purdue.edu

<table>
<thead>
<tr>
<th>President</th>
<th>Sara Wendte</th>
<th><a href="mailto:swendte@purdue.edu">swendte@purdue.edu</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice President</td>
<td>Steven Spencer</td>
<td><a href="mailto:spence76@purdue.edu">spence76@purdue.edu</a></td>
</tr>
<tr>
<td>Treasurer</td>
<td>Mark Miller</td>
<td><a href="mailto:mill1782@purdue.edu">mill1782@purdue.edu</a></td>
</tr>
<tr>
<td>Recording Secretary</td>
<td>Fidel Galano</td>
<td><a href="mailto:fgalano@purdue.edu">fgalano@purdue.edu</a></td>
</tr>
<tr>
<td>Recruitment Director</td>
<td>Emily Bartusiak</td>
<td><a href="mailto:ebartusi@purdue.edu">ebartusi@purdue.edu</a></td>
</tr>
<tr>
<td>Facilities Director</td>
<td>Alden Fisher</td>
<td><a href="mailto:fishe128@purdue.edu">fishe128@purdue.edu</a></td>
</tr>
<tr>
<td>Operations Director</td>
<td>Alex Moore</td>
<td><a href="mailto:moore428@purdue.edu">moore428@purdue.edu</a></td>
</tr>
<tr>
<td>Public Relations Director</td>
<td>Russell Shirey</td>
<td><a href="mailto:rshirey@purdue.edu">rshirey@purdue.edu</a></td>
</tr>
<tr>
<td>Volunteer Director</td>
<td>Rohan Balel</td>
<td><a href="mailto:rbalel@purdue.edu">rbalel@purdue.edu</a></td>
</tr>
<tr>
<td>Events Director</td>
<td>Gopikrishnan Sasi Kumar</td>
<td><a href="mailto:gsasikum@purdue.edu">gsasikum@purdue.edu</a></td>
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Advisors
T. M. Talavage, Head Advisor
Interim Department Head
Dr. Pedro Irazoqui

1.3 Membership Process Important Dates

This section contains a tentative calendar of events for Candidates this semester. Additional events, details, and updates will be communicated via email. More information can also be found on the HKN webpage calendar: https://engineering.purdue.edu/hkn/calendar.php

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 25, 2019</td>
<td>6:30 pm – 7:00 pm</td>
<td>1st Candidate Meeting</td>
<td>HKN Lounge</td>
</tr>
<tr>
<td>February 1, 2019</td>
<td>1:30 pm – 2:30 pm</td>
<td>Dept. Head Meeting</td>
<td>EE 122</td>
</tr>
<tr>
<td>February 23, 2019</td>
<td>12:00 pm – 2:00 pm</td>
<td>2nd Candidate Meeting (Lounge Cleaning + Skit Rehearsal)</td>
<td>HKN Lounge</td>
</tr>
<tr>
<td>March 3, 2019</td>
<td>7:00 pm – 8:00 pm</td>
<td>3rd Candidate Meeting (Dues Collection + Quiz + Skit Rehearsal)</td>
<td>HKN Lounge</td>
</tr>
<tr>
<td>March 25, 2019</td>
<td>4:30 – 6:00 pm</td>
<td>Membership Board Due</td>
<td>HKN Lounge</td>
</tr>
<tr>
<td>March 30, 2019</td>
<td>4:30 – 5:30 pm</td>
<td>Initiation</td>
<td>HKN Lounge</td>
</tr>
<tr>
<td>March 30, 2019</td>
<td>6:00 pm – 8:00 pm</td>
<td>Banquet</td>
<td>PMU, West Faculty Lounge</td>
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</tbody>
</table>
Section 2  HKN Information

2.1 Eta Kappa Nu History and General Information

Eta Kappa Nu was founded at the University of Illinois in 1904 by M. L. Carr. This first chapter is known as Alpha Chapter. HKN has since grown to over 260 active collegiate chapters.

The second chapter, Beta Chapter, was formed in 1906 here at Purdue University. From the beginning, however, there were problems. At that time, our grand and glorious university prohibited fraternal organizations of any kind. Shortly after we were founded, President Winston E. Stone caught wind of our existence and demanded that our chapter be withdrawn. The national organization did so, assuring the Beta Chapter members that they remain members of HKN Eta Chapter, which is the "chapter at large". Additionally, we continued to hold our meetings in secret. In 1913, Purdue officially changed its position regarding fraternities and permitted them to be established the university. Professor Rowel of the Case Applied Science School (now known as Case Western Reserve University) initiated the reorganization of the Beta Chapter, and we have been thriving ever since.

Eta Kappa Nu is a non-profit organization incorporated in the state of Delaware. Executive powers are vested in the National Executive Council, with judicial and advisory powers held by the National Advisory Board and legislative powers delegated to the National Convention.

To establish a new chapter, a petition must be approved by each member of the National Executive Council and three-fourths of the present college chapters. A two-thirds majority vote is required in each chapter for approval. A quorum is established (criteria for a legal meeting to be held) when one-half of the chapter members are present.

To be eligible for membership in HKN, a candidate must be in the top third of the senior class, top fourth of the junior class, top fifth of the sophomore class, or graduate school. All Membership Requirements must be fulfilled in order to be inducted into Eta Kappa Nu.

To remain an active member, no more than two consecutive meetings can be missed without an approved request for absence. Additionally, members must be university students and perform a lounge duty (POD) to keep the HKN lounge running. Members who become deactivated can be reactivated by a majority vote of the Beta Chapter active members.

Our colors are navy blue and scarlet, and our emblem is the Wheatstone bridge.
2.2 From the Shade of a Cottonwood Tree: HKN's Early Days

text by Alton Zerby, Executive Secretary 1935-1958

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

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

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

Following their first formal meeting on Friday evening, September 23, 1904, young Carr and Armstrong effected a meeting with Milton K. Akers, Edmund B. Wheeler, and Ralph E. Bowser, who became sufficiently infected with enthusiasm to agree to a planning session. Sunday morning "ML" and "Army" spent several hours on the steps of the Astronomical Laboratory preparing written, tangible plans—they sought secrecy at this stage.

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

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

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

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

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

Thus it was concluded that some classmates would not be considered eligible regardless of their scholastic rating and the matter of scholarship qualification for membership was temporarily deferred. In short, the founders were looking for future leaders of the profession!

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

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

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

Scholastic standards observed soon after the founding of Eta Kappa Nu were memorialized in a mild statement written into the Constitution during the Convention of 1913. This set definite numerical limits to the proportion of each EE class that could be elected and required that the by-laws of each chapter must specify definite scholarship standards subject to approval by the National Executive Council. In general, these standards were specified in grade points. Then, during the latter part of the 1930's, our national officers recommended that each college chapter set the upper fourth of the junior EE class as eligible for membership. This was not made mandatory until 1947, when the requirement of such rating was written into our Constitution at the recommendation of the Association of College Honor Societies, of which HKN had become a member.

During this period several alumni chapters were established, and *The Bridge* began publication to act as a vehicle of communication between students and alumni. In fact, it was the idea of the founders, carried through to this day, that Eta Kappa Nu should be more than a campus organization – a man is a member of a campus chapter at most for two years; but he is an alumnus for the remainder of his life!
Section 3  Protocol for Completing the Membership Board

Please be careful, as you will only receive one Membership Board.

Professor signatures go in the left column.

The center column is where our Department Head, Faculty Advisor, and Executive Board Members sign the Membership Board.

Active members sign the final column of the Membership Board. The first two (2) lines are reserved for active members who can vouch that you completed each of the two required PODs. The remaining four (4) signatures can be acquired from any active members.

Each active member can only sign your Membership Board once, so if you have a POD with an Exec member, you will need to ask another active member (always lurking in the lounge) to sign it instead.

The arrangement of signatures shown below is to be followed exactly. The final signature will be the Recruitment Director, once you have completed all Membership Requirements. Good luck!

ETA KAPPA NU

First Last  Spring 2019

BETA CHAPTER

<table>
<thead>
<tr>
<th>Professor 1</th>
<th>Professor 2</th>
<th>Professor 3</th>
<th>Professor 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Head</td>
<td>Advisor 1 (Talavage)</td>
<td>VP (Attend Exec)</td>
<td>Treasurer (Pay Dues)</td>
</tr>
<tr>
<td>Rec Sec (Attend Exec)</td>
<td>Events (Attend TG)</td>
<td>Facilities (Project)</td>
<td>Operations (Work POD)</td>
</tr>
<tr>
<td>PR (Resume)</td>
<td>Volunteer (Go to Event)</td>
<td>Recruitment (Turn in)</td>
<td></td>
</tr>
</tbody>
</table>

The same person cannot sign twice, if pod partner is an officer, then you need one more active signature.