



ETA KAPPA NU

Electrical and Computer Engineering Honor Society



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# 2015-16 ETA KAPPA NU ANNUAL REPORT

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Epsilon Xi Chapter | Wichita State University



September 29, 2016

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# Message From the President

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For the last two years I was privileged and blessed to be a part of the IEEE Eta Kappa Nu, Epsilon Xi chapter, at Wichita State University. I served as the President for Epsilon Xi chapter for the year 2015-2016. I am very lucky to have had an excellent group of students as my committee as well as many active members. I am also grateful for our extraordinary faculty members who served as our advisors. Our chapter is very active and has a calendar filled with events throughout the academic year. These include faculty workshops, brown bag lunches, tutoring sessions, information sessions, community outreach events, faculty appreciation events and also our biannual award ceremony. The award ceremony, hosted in collaboration with our electrical engineering and computer science department, recognizes excellence in our students, faculty members and teaching assistants. We were delighted during the summer when one of our members, Ms. Alicia Keow, who was nominated by our chapter, was named as one of the finalists for the Alton B. Zerby and Carl T. Koerner Outstanding Electrical or Computer Engineering Student Award. Furthermore, our Epsilon Xi Chapter was one of the outstanding chapters nationally recognized by IEEE-HKN for the year 2014/2015. As members of the IEEE-HKN Epsilon Xi chapter, we strive to be the best in what we do in order to maintain the success we had in the past and also to work harder to gain even more success in the future.



Saeed Alsaleb President,  
IEEE-HKN, Epsilon Xi Wichita State University 2015/16

# Message From the Faculty Advisor

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I am delighted to pen a few words as the faculty advisor of IEEE-HKN Epsilon Xi Chapter. The year 2015/2016 was the most successful year after I became the Faculty Advisor. The leadership of our two chapter Presidents Mr. Saeed Alsaleeb and Mr. Nipuna Gomes made this possible. The Fall 2015 semester saw the most members inducted into the chapter in one semester since the chapter was established in May 1966. Current strength of the chapter is more than 70; this is a great achievement considering the revival of the chapter in Oct. 2014.



Some of the highlights of the chapter activities include the tutoring program for sophomore and junior level courses, the faculty workshop to share the expertise of faculty members with undergraduate students and the faculty-student brown-bag lunch to provide opportunities for the students to learn about different areas in electrical engineering and computer science. They also include the Department of Electrical Engineering and Computer Science Awards Ceremony to recognize, student choice of the faculty member, outstanding Graduate Teaching Assistant, Undergraduate Student and Graduate Student. Three new activities that were initiated in the last year are: (i) Faculty appreciation day: On the study day of the Fall 2015, the HKN chapter organized faculty application day to create a wall of student comments about faculty and treat the faculty with donuts; (ii) HKN members started to volunteer at Minniha Core Knowledge Magnet Elementary School to introduce electrical engineering to the Gifted Students; (iii) During the summer 2016 our chapter members joined with students from Department of Physical Therapy to modify ride-on cars for children with limited mobility. This effort is coordinated by WSU GoBabyGo and currently we are in the process of developing a proposal to build 17 cars through IEEE-EPICS program.

Our chapter officers work tirelessly to strengthen the chapter and provide opportunities for the members to develop their skills and help the department, especially enhance the visibility by promoting electrical engineering and its importance to the society.

It is my privilege to be the faculty advisor for this student group and be a part of one of the most successful honor societies in the College of Engineering.

Dr. Visvakumar Aravinthan,  
Faculty Advisor, IEEE-HKN Epsilon Xi Chapter,  
Assistant Professor,  
Electrical & Computer Science Department,  
Wichita State University.

# IEEE HKN - Epsilon Xi Events

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## Awards Ceremony

Each semester we host one of our biggest events of the year where we recognize academic success across our department. Spring awards include an Outstanding Faculty Award, Outstanding Graduate Teaching Assistant Award, Outstanding Undergraduate Senior Award, and Outstanding Graduate Award. Applicants send in formal documents that an awards committee reviews to select winners.

## Fall Award Ceremony

After the first successful Epsilon Xi Award Ceremony, we were eager to continue the tradition of honoring academic achievement. HKN - Epsilon Xi Award Ceremony was held on May 16th 2015. The ceremony was more successful than we could have imagined. We held the Ceremony directly after the graduation commencement, only to add to the celebration of the day. HKN members, many of the EECS faculty and staff, students up for awards, friends and family, Dean of the College of Engineering and the 2015 commencement speaker were all in attendance to name a few. All of the feedback from the event was positive and members of the faculty expressed how nice it was to see all of the student's comments.





## Spring Award Ceremony

### Brown Bag Lunch Session: Controls

A brown bag lunch session on controls served as a means for Electrical, Computer science and Computer Engineering students to have a conversation about the field of controls in a non-academic setting. Five Electrical Engineering professors who either had previous experience with controls or have a research interest in it attended this event. Students had an opportunity to ask professors a plethora of questions regarding controls which entailed what sparked their interests in it.

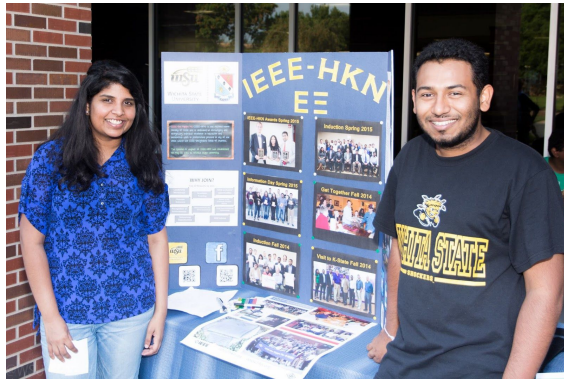


Faculty members in attendance from left to right: Dr. John Watkins, Dr. Edwin Sawan, Dr. Zheng Chen, Dr. Sergio Salinas, Dr. Animesh Chakravarthy.

### Engineering block party

This was one of the major events that we participated in at the Wichita State's college of Engineering. This was a good opportunity to showcase our chapter to many current students. We were able to inform students about what it takes to get invited to our honor society. We hope

that the prestige of our chapter will encourage them to achieve a higher GPA and maintain it while they are pursuing their degree.



## Fall Potluck

Toward the end of the 2015 fall semester we held a get together. It was a potluck, and group members brought in food and beverages for everyone to share. We held the event in a classroom in the Engineering Building in the evening. Professors and faculty members of the EECS department were also invited to our get together, and several came including John Watkins, our EECS department chair. The event was a time for everyone to meet outside of club activities to hangout and talk. Ms. Kumar, an EE Professor, brought with her the HKN Outstanding Teacher award she had received earlier in the year and showed it for the group to see as well.



## Founders day



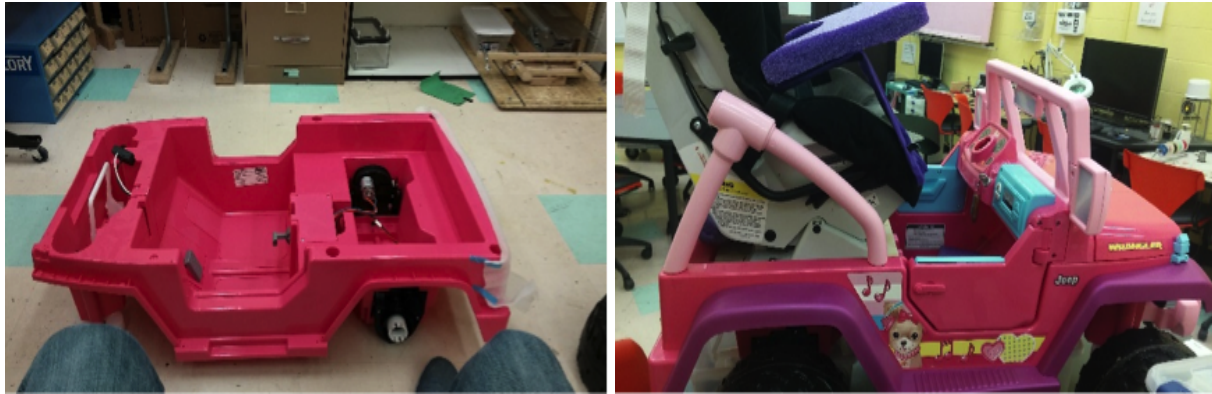
The 111th Annual Founder's Day was celebrated on October 28, 2015 in Jabara Hall. 10 members and 65 non-members came to help us honor the past and celebrate the future of HKN. Every member that stopped by received wristbands, pens, frisbees, etc. Along with celebrating with current members, many EECS students came to learn about our organization in hopes of becoming a member in the near future.

## Go-Baby-Go Project

Through the Go-Baby-Go project, IEEE-HKN Epsilon Xi members work with the Department of Physical Therapy and Rainbow Health services in Wichita, KS in order to bring accessibility to children with physical impairments in the local community. HKN members modify off-the-shelf ride-on toy cars so that these children are able to operate them to get around. We are able to



achieve this at a much lower cost than the price of a mobility vehicle. We see this as an important project as it not only provides these kids with a way to move about but makes them more independent and gives them greater opportunities to socialize. Our HKN chapter is active in this ongoing project and are planning to apply for an IEEE-EPICS grant to extent this effort to reach even more children in the community.



## Information Session

Our Fall 2016 Information Session was held on Friday, September 23rd, 2016. During this event, current members came together to welcome six prospective members. The evening began with a brief presentation about the history of HKN, the current state of Epsilon Xi, as well as future outlook. The presentation was followed by ice cream and entertainment in the form of team building games.





## Initiation

We had our fall 2015 initiation on October 24th 2015 with total of 29 students. That is a record number of highest students initiated in the history of Epsilon Xi Chapter yet. After the event we went out to have some food together and celebrated their new chapter at Epsilon Xi.





On April 23rd 2016 we had our spring initiation and total of 14 of new members got initiated.

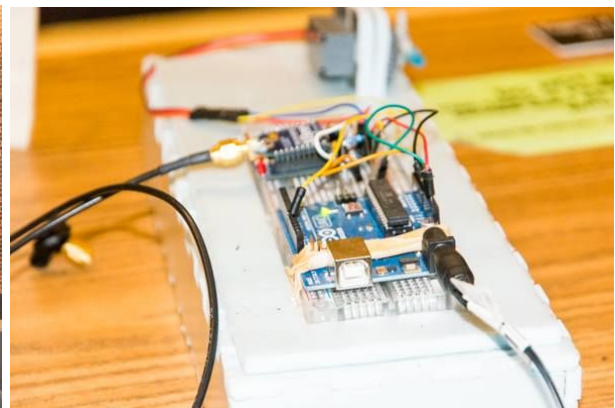


## Workshops

Workshops are held as a way for our members and other students at Wichita State to gain additional knowledge in areas that may not be presented in the classroom.

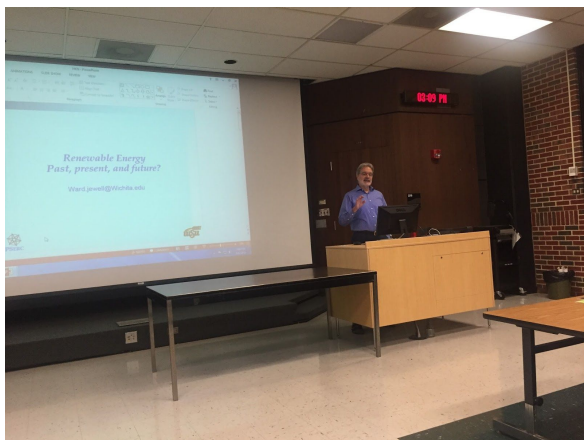
### Antenna Workshop

This was the first ever workshop organized by our chapter. Dr. Kiyun Han was a faculty member EECS Department, Wichita State University. He was also the faculty advisor to the IEEE chapter at WSU. Prior to his faculty position, Dr. Han worked in the industry in the field of antennas. When asked to do a workshop for students, Dr. Han outdid our expectations. He presented some of his model antennas and demonstrated how they function. The event was open to all the WSU students and faculty. Members from IEEE chapter helped us in advertising for this event.



## Renewables Workshop

Professor Ward Jewell is an Electrical Engineering professor at Wichita State University with research interests in Power Systems, Power Quality, Renewable Resources, Distributed Generation, and Distance Learning. During the Spring Semester of the 2015- 2016 academic year, the Wichita state Eta Kappa Nu chapter hosted Dr. Jewell for a renewables workshop. In this workshop, Dr. Jewell briefly talked about his history with renewables then went on speak at length about the history of renewables in the United States. He also discussed about the different types of renewables and the future they hold as sources of power generation in the United States. The chapter is also planning to have Dr. Jewell present again. This would serve as a continuation of his first session.



## HKN Epsilon Xi Involvement and Programs

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### Achievement - Annual Chapter Report

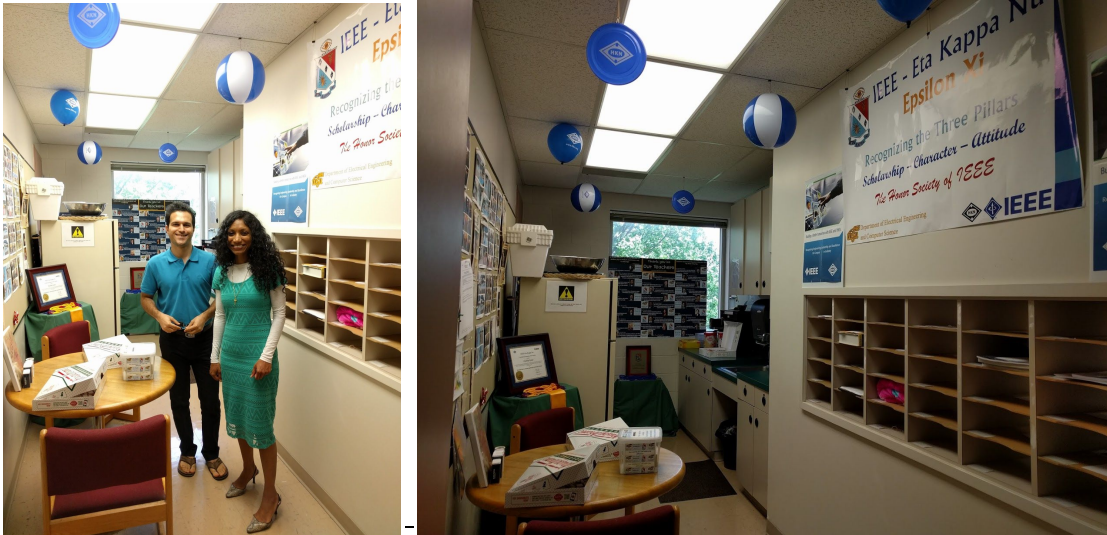
For the first time ever in the history of Epsilon Xi chapter, we received the National Outstanding Chapter Award for the year 2015. Our EECS Chair, Dr. John Watkins received the award from the IEEE-HKN president Dr. S.K. Ramesh during the Annual Meeting of Electrical and Computer Engineering Department Association. We were recognized for our activities and for being a highly active chapter. We would like to thank IEEE-HKN awards committee this wonderful recognition.



## EECS Faculty Appreciation Day/ Fundraising

This was one of the ideas initiated at the IEEE- HKN Student Leadership conference. At one of the workshops held at the Student Leadership Conference (SLC), many ideas for fundraising were discussed. Out of many suggestions we decided to start our own fundraising event at the department level. We were able show our appreciation towards our hard working faculty members by hosting a doughnut giveaway in the faculty break room. We also decorated the room with many positive comments that we received from their students. Along with these, we also placed a donation box to which faculty members were able to place a donation voluntarily. With this successful event, we were able to collect around \$260 dollars.





## IEEE-HKN C. Holmes MacDonold Outstanding Teaching Award 2015

Dr. Preethika Kumar became the first recipient from Wichita State University of the IEEE-HKN C. Holmes MacDonold Outstanding Teaching Award. She was acknowledged for the central and crucial role of college professors in training and motivating future electrical and computer science engineers. This award recognized her creativity and excellence in teaching and for her special dedication to the students as well as to the university. As a hardworking professor, she has received many awards and recognitions from the university prior to this award and yet this became the highlight of her career. Once again, we would like to sincerely thank IEEE-HKN headquarters for this award.



## Minneha Elementary School

We visited the Minneha Core Knowledge Elementary school in East Wichita. This was an outreach program collaborated by our IEEE-HKN faculty advisor, Dr. Visvakumar Aravinthan. From the discussion he had with the elementary school, Dr. Aravinthan was able to get this opportunity for us to go to the elementary school and interact with the students.

As we interacted with them we were amazed by their creative knowledge and attention to the smallest details. We were fortunate enough to meet these kids and being able to motivate them intellectually. Our goal was to promote engineering to these young minds. We were also able to showcase to the young female students that there are great opportunities available for women engineers. We taught them the basic concepts of electricity and was able to illustrate these concepts with practical demonstrations.



## Student Leadership Conference 2016

Four of our Epsilon Xi chapter members participated in the annual HKN student leadership conference held in Ann Arbor, Michigan. The students from the host university were very cooperative and hosted a very successful event.

Throughout our time at the conference, we were able to obtain a lot of insight into successfully running the organization during the coming semesters. As such, some of our events held this semester were based on the discussions we had during the conference. The experiences we gained from the conference will not go wasted.

We were fortunate enough to meet up with Ms. Nancy Ostin, Director of IEEE-HKN, and talk with her about our chapter and the possible future directions we should be looking into. Also, we talked with many members of the IEEE-HKN 2016 IEEE-HKN Board of Governors. This was a very informative experience for us.





## Tutoring

As an honor society, promoting academic success is extremely important to us. IEEE-HKN Tutoring is one of the most important programs offered by our chapter. We hold weekly sessions where students are welcome to get help on a variety of Electrical, Computer Science and Computer Engineering courses. Our members volunteer and dedicate their time in assisting students to achieve a greater potential in their classes.

## Wallace Scholar Invitational students

For this outreach program we collaborated with the electrical engineering and computer science department (EECS Dept.) to demonstrate to the incoming scholar-freshmen students the power related equipment that were available in our laboratories. We showed them we utilize this equipment to understand the practicality of electricity, system stability, synchronism of 3-phase power and the effect of faults in the system.



# Financial Report

The following is a summary report of Eta Kappa Nu's Chapter's finances over the 2015-2016 academic year.

Fall 2015					
Category	Date	Item	Description	Amount	Account Balance
			Year Starting Balance		\$645.50
Fall Award Ceremony	12/10/15	Food and Beverages	Purchased from WSU dining services. Paid for by EECS department.	\$0.00	\$645.50
	12/10/15	Award Plaques	Purchased from WSU dining services. Paid for by EECS department.	\$0.00	\$645.50
Fundraising		Papa John's Donations	Received 3 checks in Fall.	\$41.93	\$687.43
Information Day	09/30/15	Ice Cream	Purchased from WSU dining services.	\$64.23	\$623.20
	10/01/15	Wood for painting	Purchased from Home Depot.	\$9.64	\$613.56
	10/01/15	Paint+ Brushes	Purchased from Hobby Lobby.	\$16.05	\$597.51
Club Misc.	10/01/15	Napkins, cups, spoons, receipt book	Purchased from Walmart.	\$12.96	\$584.55
New Members		Cash/Check	Received initiation fee from 24 new members.	\$240.00	\$824.55
				End of Semester Balance:	\$824.55

Spring 2016					
Category	Date	Item	Description	Amount	Account Balance
			Starting Balance		\$834.22
Honorary Wall Plaque	02/22/16	Wood Plaque	Purchased from Trophykits.com	\$109.72	\$724.52
	05/09/16	Name Plates & Head Plate	Purchased from Shocker Engraving	\$237.36	\$487.16
Award Plaque	05/02/16	Engraving	Purchased from Shocker Engraving	\$167.00	\$320.16
SGA Funding		Check	Reimbursement from SGA for above items	\$500.00	\$820.16
Spring Award Ceremony	04/27/16	Formal Invitations	Purchased from Walmart	\$8.17	\$811.99
	05/08/16	Award Certificates & Holders/Frames	Purchased from Office Depot	\$125.04	\$686.95
	05/12/16	Food/Beverages	Purchased from WSU dining services	\$179.26	\$507.69
	05/14/16	Food	Purchased from Sam's Club	\$18.12	\$489.57
Department Funding		Check	Funding from EECS department for Spring Award Ceremony expenses.	\$300.00	\$789.57
Spring Fundraising	05/12/16	Faculty Donations	Raised for Spring Award Ceremony	\$267.00	\$1056.57
		Papa John's Donations	5 Checks Received in Spring	\$80.13	\$1136.70
Information Day	02/22/16	Ice Cream	Purchased from WSU dining services	\$64.23	\$1072.47
Teacher Appreciation Day	05/13/16	Donuts	Purchased from Krispy Kreme's	\$27.00	\$1045.47
Engraving	05/12/16	Plaques	Purchased from Shocker Engraving	\$172.00	\$873.47
New Members		Cash/Check	Received initiation fee from 15 new members	\$150.00	\$1023.47
IEEE		Check	Received Founders Day Marketing Award	\$100.00	\$1123.47
				End of Semester Balance	\$1123.47

# Time Table

Activity	Spring, Fall, Both	Person Hours	Description
Tutoring	Both	375	Provided tutoring for EECS dept
Information Session	Both	200	Met potential members, offered information on IEEE-HKN
Induction Ceremony	Both	250	Inducted new members into IEEE-HKN
Go Baby Go	Fall	150	Modified ride on toy cars for limited mobility children.
School Outreach	Both	64	Explained basics of electricity to 3rd & 5th graders, promoted engineering to middle schoolers
Award Ceremony	Both	500	Award get together honoring recipients of HKN Epsilon Xi's awards
General Meeting	Both	110	General meetings served as an opportunity to get IEEE-HKN members to discuss about upcoming activities, events and other general information.
Officer Meeting	Both	90	Discussed necessary information to keep Epsilon Xi running successfully
Fundraising	Both	30	Raised funds for HKN Epsilon Xi chapter through various means
Brown Bag Lunch	Spring	30	Brown Bag lunches serves as an opportunity for EECS faculty and WSU students to interact in a non-academic setting
Workshops	Both	80	Workshops that promoted professionals from the EECS field to discuss topics of interest with WSU Student Body
Founders Day	Fall	75	Booth in Jabara Hall honoring the HKN founding members and promoting HKN to WSU student body.
CoE Block Party	Fall	120	Promoted IEEE-HKN at College of Engineering Block Party
Total	Both	1894	Total amount of HKN Epsilon Xi chapter hours

## Closing Remarks

The 2015-2016 year has been a large success. As the group continues to grow and thrive, we begin to create a noticeable footprint on our campus and community. HKN Epsilon Xi has been recognized by the College of Engineering as the most active engineering group at Wichita State University. As we reflect our accomplishments over the past year, it is also worth mentioning our plans for the future. With the recent success of our Go Baby Go project, it is our new mission to continue to impact the lives of families who have children with disabilities. Also, as we continue our mission to make a difference in our local community by increasing outreach, we intend to increase our campus presence to boost recruitment as well as stimulate Epsilon Xi through efforts to increase revenue.