

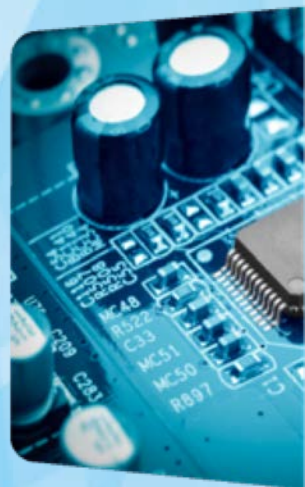
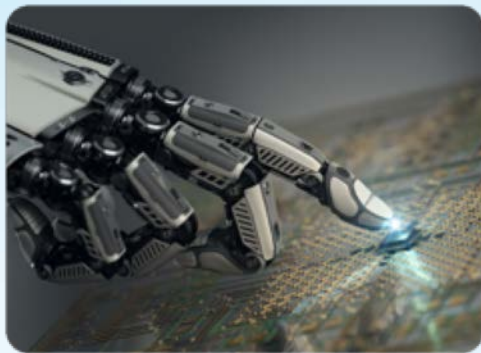
Section Education Outreach - Orientation

Sohaib Sheikh	SEOC Chair	Welcome
Witold Kinsner	Vice President EA	Introduction
Jamie Moesch	Managing Director EA	The Future of EAB: 5-year plan and Alignment with other OUs
Burt Dicht	Dir. of Student & Acad. Ed. Prog.	Pre-University and University Education Programs
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Michael Benson	HKN Volunteer	IEEE Eta Kappa Nu (HKN) Programs
Sohaib Sheikh	SEOC Chair	Resources for IEEE Volunteers
Lorena Garcia	ARC Chair	EAB Awards
Best Practices and Inspirational Education Activities from OUs		
Tay Chuan Zhi	Curtin SB, Malaysia	STEM Challenge to Bridge the Education Gap in Malaysia
Conrad Attard	Malta Section, Malta	TISP Activities in Collaboration with Ministry of Education in Malta and Industry Partners
Mostafa Mortezaie	Region 6 EA	EPICS in IEEE Expo

IEEE Educational Activities: **SEOC Orientation 2019**

Please note

- This orientation is being recorded
- The chat feature can be used to:
 - Advise of technical difficulties
 - Ask questions during the presentation
 - Brief answers will be shared in the chat window, while more in depth questions will be addressed in follow up communications
- Kindly mute your line during the presentation



IEEE Educational Activities

*Section Education Outreach Committee
Orientation*



Section Education Outreach - Orientation

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Section Education Outreach Committee

Sohaib Sheikh, SEOC Chair



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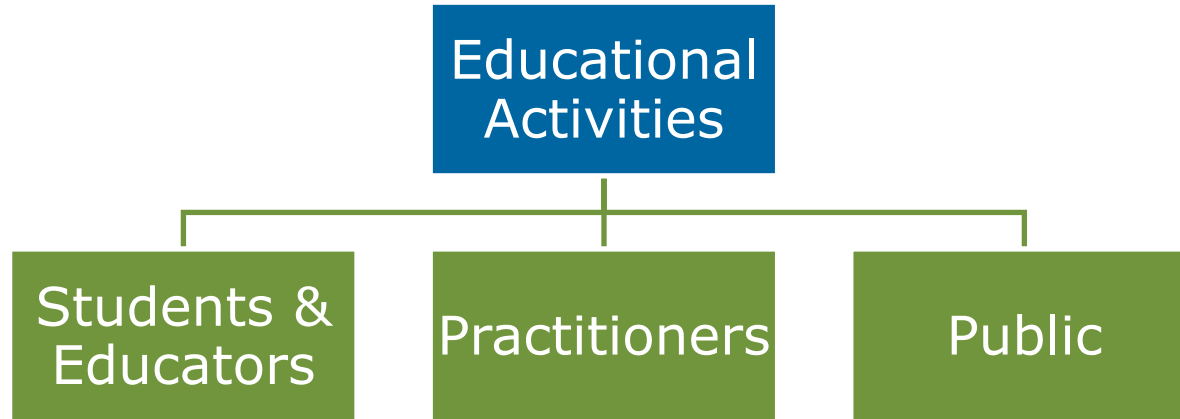


Witold Kinsner

IEEE Educational Activities 2019 Vice President



Educational Activities (EA): Whom do we serve?

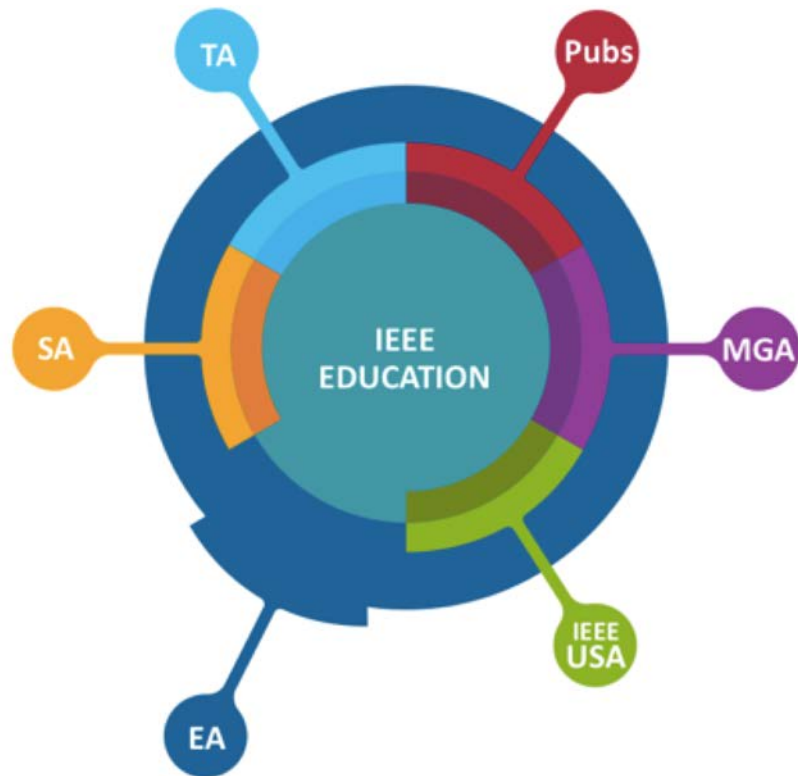


Be the recognized and respected portal for educational resources, global in reach, but local in relevance, supporting life-long learning and catalyzing change through education.

Education Across IEEE

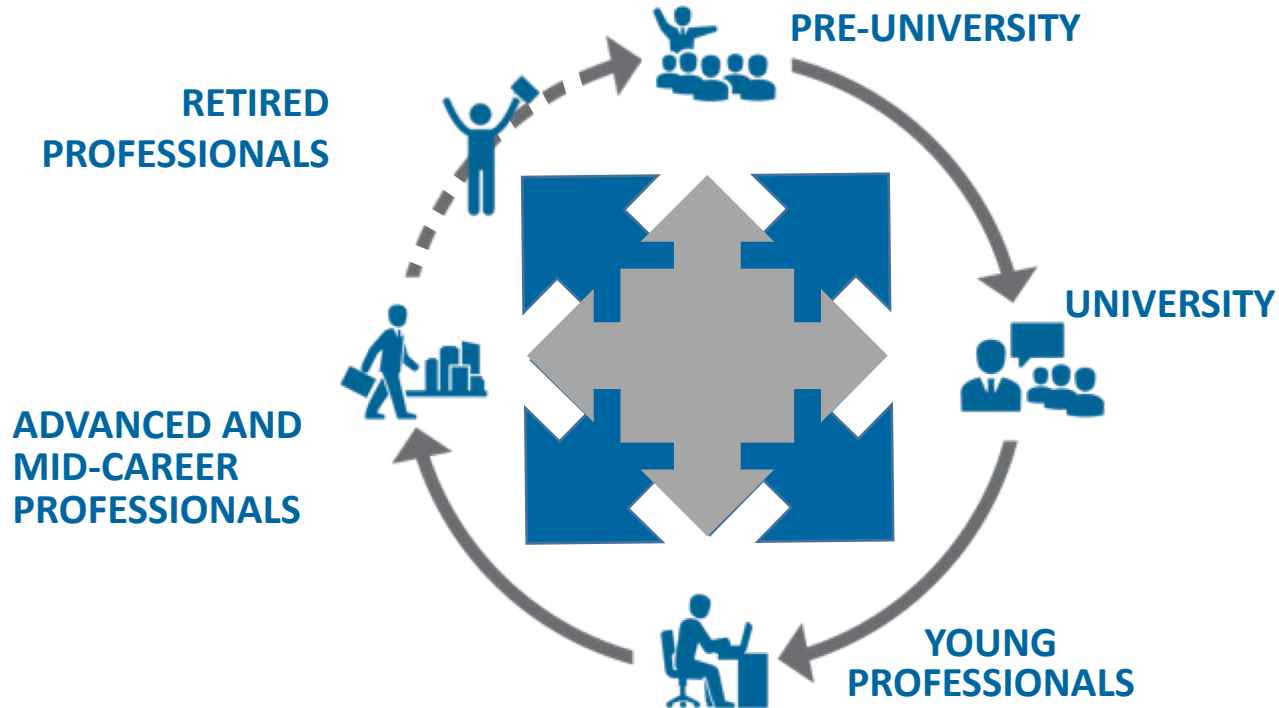
Expanding our
collective impact in
education through:

Coordination and
Cooperation



Educational Programs Designed to Connect Throughout an Individual's Life

Moving from Open-Loop Education to Closed-Loop



Moving from Open-Loop Education

Towards Closed-Loop Education



Body of Experience (BoX) must be transferred to the students



2019 IEEE Educational Activities Board

15 Voting, 3 Non Voting
18 Total



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Jamie Moesch

Managing Director, Educational Activities

Established 5 Year Goals to Guide Educational Activities



Become
Market
Focused

IEEE Customers

Institutional
Government
Association

Individuals

Members
Non-Members

Emerging Audiences



Research Driven
Product &
Services
Portfolio

Topics

Fundamental
Emerging
Specialized

Services

Production
Support
Marketing

Platforms



\$5m+ Revenue

New Products

Expanded Services

Sponsorship



Public
Imperatives with
more
impact

Educational Resources

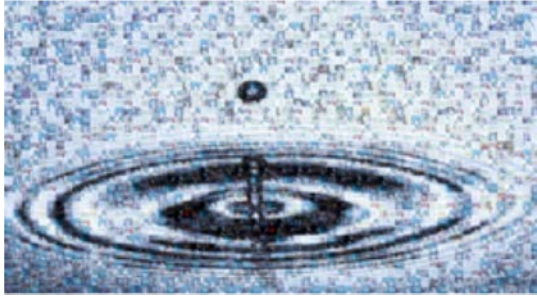
Future Technologists
Teacher Training

Accreditation

Community Service



What Educational Activities is working on?



Expand Our Impact



Grow Our Business



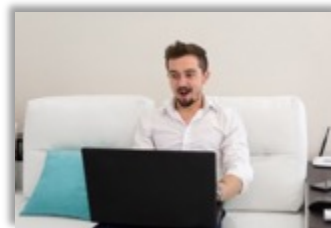
Partner More Effectively

Impact on Member Value

Educational Activities is working to improve the value of membership



Enhanced
Certificate
Program offering
CEUs and PDHs



Significant
improvements to
course program quality



IEEE Learning Network
simplifying course
discovery and
consolidating their
learning progress



Micro-volunteering
opportunities through
programs like Teacher In
Service Program (TISP)



Educational Activities Geographic Reach

Education is also important to Section Leadership

brilliant minds
BRIGHT FUTURES
IEEE SECTIONS CONGRESS 2017

Recommendation #2
Develop Pre-College STEM activities for local units

 **EPICS in IEEE**
Engineering Projects in Community Service

















 **IEEE Eta Kappa Nu**

 **Teacher In Service**

 **IEEE**



Educational Activities areas of focus and programs for 2019

Priority	 PRE-UNIVERSITY	 UNIVERSITY	  LIFE-LONG EDUCATION
HIGH	  		 
MEDIUM		  IEEE Eta Kappa Nu 	
LOW	<p style="text-align: center;">A w a r d s</p> <p>President's Scholarship</p>	<p style="text-align: center;">P r o g r a m</p> <p>Faculty Career Development</p> 	

Working together to expand our impact

The future success of Educational Activities relies on our ability to partner across IEEE



Partnering with numerous IEEE societies, Future Directions, Standards, MGA, Legal and Human Resources, IT and Publications on development



Partnering with Standards, Future Directions, IEEE Marketing & Sales and many IEEE societies on course development and marketing



Key partnership with the IEEE Foundation



Over 25 scholarships made possible by IEEE Societies through the IEEE Foundation



Professional Leadership Team

Terri Ciccodacola
IT Business Partner



Roopalee Kharm
HR Business Partner



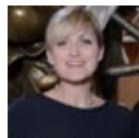
Jamie Moesch
Managing Director,
Educational Activities



Larry Bolsch &
Mike Lombardi
Financial Solutions



Rachel Warnick
Manager, Governance &
Project Management



Burt Dicht, Director,
Student & Academic
Education Programs



Jennifer Fong, Director,
Product Management,
Sales, & Marketing



Marguerite Corazza,
Director, Continuing Ed
Product & Design Svc



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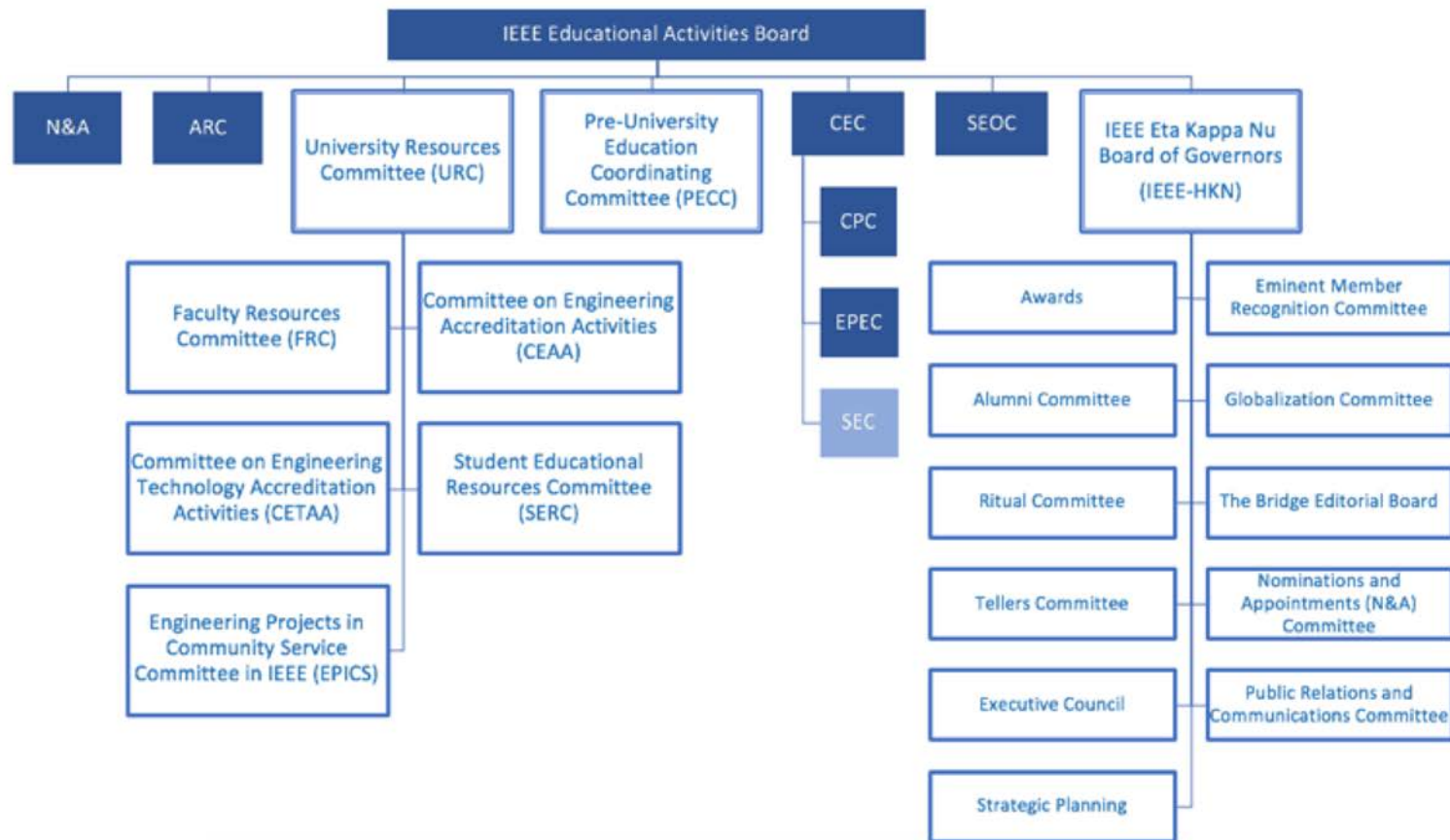


Student and Academic Education Programs

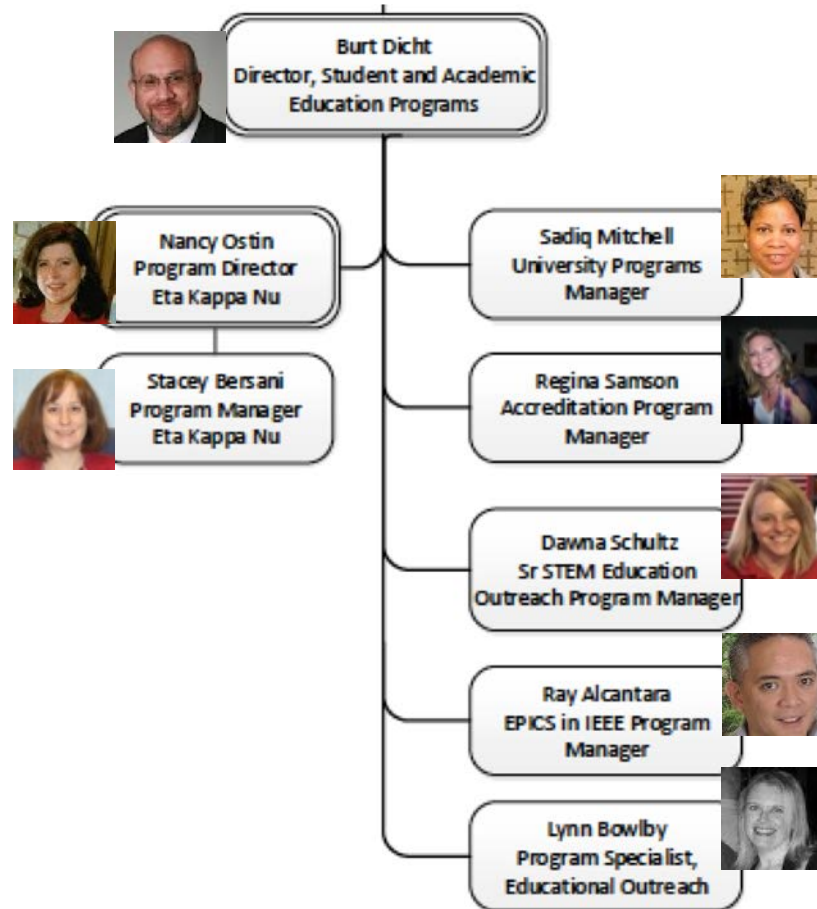
Burt Dicht, Director Student and Academic Education Programs

The Organization

Student and Academic Education: Committee Structure



Student and Academic Education: Staff Structure





Pre-University Education Committee

*Burt Dicht, Director Student and
Academic Education Programs*



Supavadee Aramvith, PECC Chair

Pre-University Education Coordinating Committee (PECC)

Mission

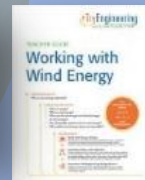
- Promote and enhance the level of technological literacy of pre-university educators and students,
- Be the primary source of resources, curricula and pedagogical practices for pre-university educators
- Encourage students to aspire to IEEE related careers



Current TryEngineering Brand



Two-week summer
college experiences for
8th to 12th grade students



A pre-university engineering
education portal for educators
and students



A teacher-guided online
learning platform that
matches 3rd to 5th graders
with mentors from industry

- 1.5+ Million Annual Visitors
- 140+ Lesson Plans
- 22 Million Lesson Plan Downloads to-date



A pre-university engineering education web portal

- ▶ Provides in-classroom resources for educators . . . Helps bring engineering into the classroom
- ▶ Assists students in preparing for a career in engineering



TryEngineering

TOGETHER

Powered by IEEE and In2Books



TryEngineering Together is a teacher-guided online e-mentoring and learning platform that matches students in under resourced areas 1:1 with industry mentors to improve their STEM and literacy skills

Program to Date

- 11 classrooms
- 220 students/mentors
- 7 sponsors
- 10 learning units



"These kids normally shut down with learning, but they are asking to write their mentors."

-NJ Fifth Grade Teacher

How It Works



Students and eMentors are matched 1:1



Students and eMentors read STEM articles



Classroom discusses articles and hands-on activities



Students and eMentors exchange letters about experience



INCREASED STEM KNOWLEDGE

Western Digital.



AEROSPACE

RUDOLPH
TECHNOLOGIES



Newport News Shipbuilding
A Division of Huntington Ingalls Industries

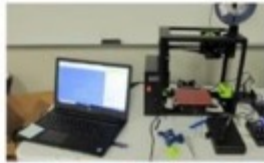
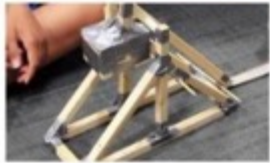
rackspace.



<http://tryengineeringtogether.com/>



Vaughn College
of aeronautics and technology



UNIVERSITY OF CALIFORNIA
UC RIVERSIDE



<https://tryengineeringinstitute.ieee.org/>

Two-week summer college experiences that introduce students to the concepts and applications of several fields of engineering through:

- Hands-on activities
- Lectures
- Guest speakers
- Field trip/tours

2019 Summer Institute Status

157 Students Enrolled (as of 10 July)

30 Scholarship Students (Donations from IEEE Units & Individuals)

Introductory and Advanced Curricula complemented with Industry Tours and Young Professionals Panels

Sponsor - Con Edison; **In-Kind Sponsors** - Solidworks, Autodesk, and Microsoft Xbox



Session I – 7 to 20 July

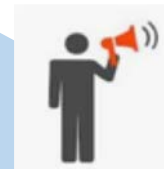
Session II – 21 July to 3 Aug





Online STEM
Community

EPICS IN **IEEE**
Engineering Projects in Community Service



Ambassador
Program

TryEngineering
Powered by IEEE and Educators **TOGETHER**



Pre-University
Educators

Pre-University
Students



Sponsors



Curation
Partners

STEM
Volunteers



IEEE
STEM
Network

Powered by IEEE
TRYEngineering.org

TryE 2.0 - STEM Ecosystem



Section Involvement

Pre-University Activities

- ▶ Submit career or student profile to be featured TryEngineering.org
- ▶ Suggest hands-on activities that can be turned into lesson plans for pre-university educators
- ▶ Suggest high quality opportunities for students to gain skills and experience in engineering, computing, or technology (camps, competitions, research programs)
- ▶ Suggest possible company/classroom sponsors for TryEngineering Together
- ▶ Host a teacher training workshop (TISP)



University Resources Committee

*Burt Dicht, Director Student and
Academic Education Programs*



Timothy Kurzweg, URC Chair



University Resources Committee (URC)

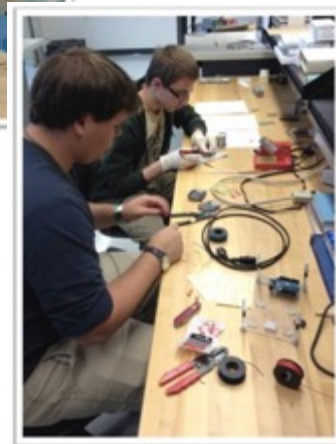
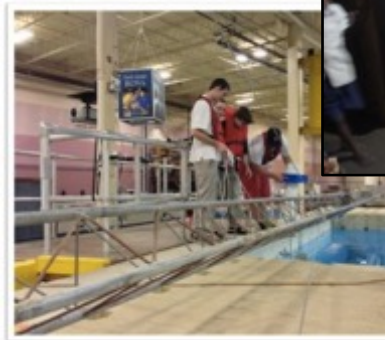
Mission

- To promote and enhance the content and delivery of engineering, computing, and technology (ECT) education
- Meet the engineering education accreditation needs of the profession and oversee accreditation efforts in IEEE's fields

EPICS IN **IEEE**
Engineering Projects In Community Service



**Faculty Career
Development**



Description

- A signature program of the IEEE Foundation and EA that organizes university and high-school students to work on engineering-related projects with local community organizations

Objectives

- Inspire the next generation of engineers
- Change the way engineering is taught in universities
- Encourage engineering students to solve problems in communities worldwide through service learning

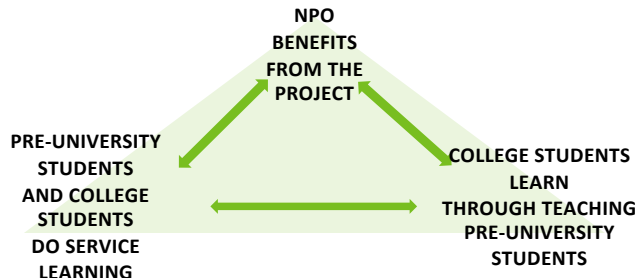
Student Benefits

- Improve technical engineering + problem-solving skills
- Enhanced communication skills
- Develop + expand leadership skills
- Real life experience + measurable result

Community Benefits

- Obtain a solution to a problem or need
- An immediate impact on humanity
- A measurable result

How It Works



Accreditation



ABET

- Oversee the accreditation of more than 800 engineering, computing and technology programs in IEEE's fields of interest
- More than 300 IEEE volunteers (accreditation committees and program evaluators) are involved with accreditation activities



GLOBAL ACCREDITATION

- Guide and support the operations of existing global accrediting bodies
- Facilitate the establishment development and implementation of new accrediting bodies and accreditation procedures



Section Involvement

University Activities

▶ EPICS in IEEE

- Spread the word to student branches to propose and EPICS in IEEE project at their university
- Facilitate brainstorming exercises within section/student branches to define a local problem and solution

▶ Accreditation

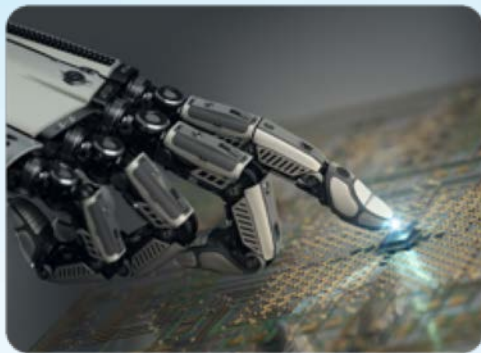
- Promote PEV candidate recruitment (very specific requirements)

▶ Faculty Resources

- Assist the Faculty Resources Committee (FRC) in planning and organizing faculty development virtual workshops

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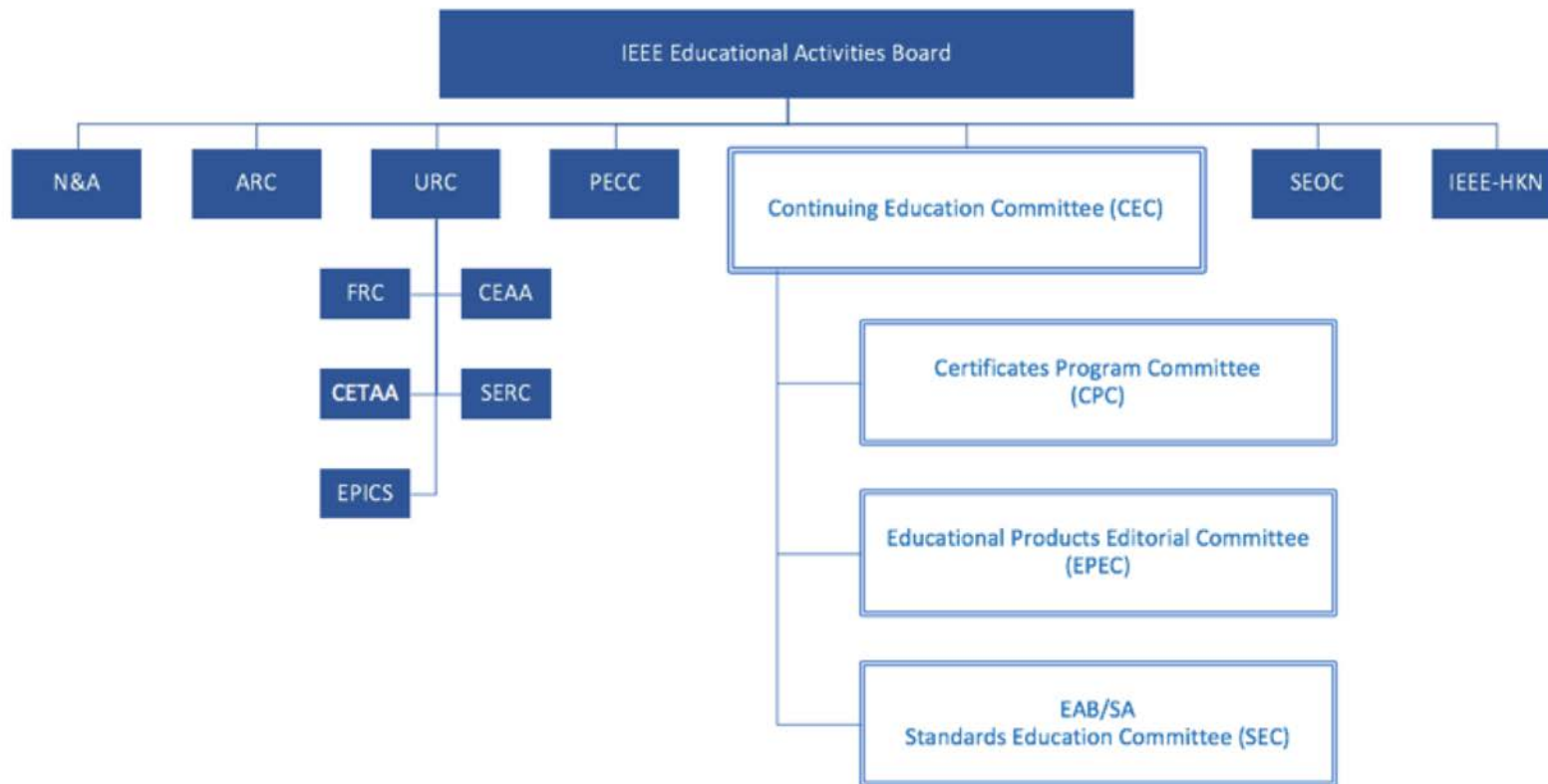


CPE-Continuing Professional Education - Overview

Bruce Kraemer/Jen Fong

9 July 2019 r5

Continuing Professional Education: Committee Structure



CEC Charter from Ops Manual Section 4.6

- ▶ B. Mission: To identify and serve the continuing education needs of industry and by being the resource of choice for quality educational products, programs and services.
- ▶ C. Scope: To assure that the continuing education products, programs, and services developed by the EAB demonstrate high educational quality. The EAB shall

Primary activities:

- ▶ D. F
- ▶ 1. S
- ▶ 2. R
- ▶ 3. O
- ▶ 4. O
- ▶ 5. Identify and acquire quality continuing education content by developing and maintaining relationships with IEEE conferences, societies, councils, other Organizational Units and operating units as sources of content for EAB continuing education programs, products, and services.
- ▶ 6. Monitor progress toward goals and objectives of IEEE EAB continuing education programs, products, and services, and annually evaluate their performance against established metrics, and make appropriate recommendations regarding the creation or continuance of such programs, products and services.
- ▶ 7. Wherever needed, recommend to EAB policies and actions that shall support the mission of the Committee.
- ▶ 8. Maintain communication and dialog with EAB, IEEE Organizational Units and outside organizations that are engaged in continuing education.
- ▶ 9. Provide leadership for EAB, IEEE as a whole, and the engineering community to identify and plan for the emerging needs of continuing education.
- ▶ 10. Evaluate the continuing education needs of industry at a regular basis and ensure that the needs are timely addressed in EAB continuing education products, programs, and services.

Notable CPE Customers in 2019



eLearning Library



AI & Ethics Programs



eLearning Library



eLearning Library

SAMSUNG

English for Engineering



2019 Front List



Autonomous Vehicles &
Intro to Blockchain
Programs



eLearning Course Topics on ILN

One-stop platform for discovering all IEEE educational products



Featured Topics



iln.ieee.org



Course Programs Included in the 2019 eLearning Library Subscription



Enterprise Blockchain
for Healthcare, IoT,
Energy and Supply
Chain

Now Available



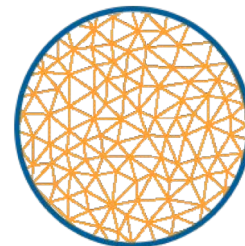
Introduction to IEEE
Standard 1547-
2018: *Connecting
Distributed Energy
Resources*

Available Q3



5G Networks
*Discover 5G
Technology and End-to-
End 5G Systems*
(produced in cooperation
with Nokia)

Available Q4



Finite Element
Method for
Photonics

Available Q4



IEEE | Rutgers Online Mini-MBA for Engineers



Rutgers Business School

- ▶ Co-branded IEEE/Rutgers product launched January 2019
- ▶ Ten self-paced online modules – 3.5 hours of instruction each
 - Topics include: Strategy, Product Development, Negotiation, Economics, etc.
- ▶ Live interactive sessions with Engineering and Business faculty
- ▶ Customizable Capstone project

<https://forms1.ieee.org/IEEE-Rutgers-Mini-MBA-for-Engineers.html>

Recent Course Program Topics

Course Program: A collection of courses about a given topic.

IEEE Guide to the Internet of Things	Cybersecurity for Today's Environment	Hacking Your Company: Ethical Solutions to Defeat Cyber Attacks	National Electric Safety Code (NESC)
Introduction to Blockchain Technology	Understanding SMPTE ST 2110	IEEE Guide to Autonomous Vehicle Technology	Modernizing the Smart Grid
Artificial Intelligence and Ethics in Design: Part 1	Artificial Intelligence and Ethics in Design: Part 2, Responsible Innovation	IEEE Introduction to Edge Computing	Enterprise Blockchain for Healthcare, IoT, Energy and Supply Chain

<http://iln.ieee.org>



Topics Under Consideration for Release in 2020

2020 eLearning Library –Topical

(matters of current or local interest)

- ▶ Automotive Cybersecurity and Blockchain (potential partner: Computer Society)
- ▶ Robotics Process Automation (potential partner: Robotics and Automation Society)
- ▶ Artificial Intelligence/Machine Learning (potential partner: Standards/Computational Intelligence Society)
- ▶ Chip Design for 5G (potential partner: Electron Devices Society)

Durable Products

(able to resist decay)

- ▶ English for Technical Professionals (in development for release mid-2020)
- ▶ CSX Cybersecurity Platform (3rd party co-branded product in partnership with ISACA)
 - Includes related certification from ISACA

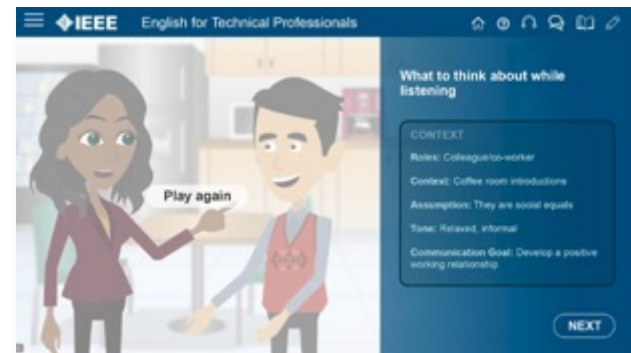
CEC will be exploring the potential of adding 3rd party content to ILN in the second half of 2019

Currently working on finalizing list of 2020 topics and engaging society partners/SMEs
Contact Jen Fong Immediately if you have significant demand for a new course.



IEEE ENGLISH for Technical Professionals

- ▶ Earlier product called English for Engineering
- ▶ Brand new course program from IEEE Educational Activities designed to help learners improve English communication skills in reading, writing, speaking and listening
 - Developed by professional communications expert, ESL pedagogical specialist, and instructional designer
 - NIC funded product
 - Targeted for launch mid-2020
- ▶ Future plans for IEEE English for Technical Professionals include:
 - New content with artificial intelligence feedback tool for 2021
 - In-country tutoring programs with partners in China, India, etc?



Encouraging Student Membership with English for Engineering


EA partnered with IEEE Membership to offer English for Engineering courses at a significant discount to encourage student membership renewals.

Africa

- ▶ Student members in Tunisia were offered English for Engineering courses for free for the first half of the year
 - 3,135 courses were taken during this promotion
- ▶ As of 1 June, student members who did not take advantage of the free offer will be able to purchase English for Engineering courses for \$5/each
- ▶ We've extended the \$5 E4E access offer to all student members in Africa through the end of 2019.

Region 9

- ▶ Student members were offered English for Engineering courses for \$5/each for the first half of 2019 (through 30 June)
 - 409 courses were purchased during this promotion

IEEE English for 
Engineering



English for Engineering courses are \$35/each for members (regular price).

What is the IEEE Learning Network (ILN) at iln.ieee.org?



Vision for IEEE Learning Network:

Provide one portal/website for IEEE educational courses to be discovered which allows learners to track their learning progress

ILN is:

- ☐ An IEEE Xplore for IEEE educational courses
- ☐ Learning management system (LMS)
- ☐ Integrated with key IEEE systems:
 - IEEE Enterprise eCommerce Cart
 - Siebel Catalog
 - IEEE Customer Record
 - Single Sign On
 - IEEE Customer Profile Application
 - MetaNav
 - Xplore
- ☐ One-stop site for discovering IEEE continuing education



Organizations with content discoverable at launch:

- Computer Society
- Power & Energy Society
- Communications Society
- Photonics Society
- Electronics Packaging Society
- Industry Applications Society
- Solid State Circuits Society
- Power Electronics Society
- Transportation Electrification Community
- Humanitarian Webinars



Organizations hosting content at launch:

- Educational Activities
- Standards Education
- Future Directions

Questions? Comments?

Contact: Jen Fong

Phone: [732-562-6349](tel:732-562-6349)

E-mail: j.fong@ieee.org

Bruce Kraemer

Phone: 321-427-4098

E-mail: brucekraemer@gmail.com



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IEEE-Eta Kappa Nu

The honor society of IEEE

Society Overview

Michael Benson, IEEE-HKN Governor, Regions 3-4



What is IEEE-Eta Kappa Nu?

- Honor Society of the IEEE
- Founded in 1904 at the University of Illinois.
- Merged with the IEEE in 2010.
- 260+ Chapters at Universities worldwide.
- Over 200,000 inductees spanning regions 1 - 10.



What is IEEE-Eta Kappa Nu?

- Candidates are invited to join based on their academic ranking, unimpeachable character, and positive attitude.
- Membership is a lifelong designation for individuals who have distinguished themselves as students or professionals in electrical engineering, computer engineering, computer science, and other fields of IEEE interest.



What is IEEE-Eta Kappa Nu?

- Recognized around the global as the one honor society that represents the highest values of our profession.
- Composed of inducted members and organized into over 260 collegiate chapters and a number of alumni chapters.



Why Do Students join IEEE-HKN?

- 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.



Benefits of IEEE-Eta Kappa Nu: For Students

- Induction into IEEE-HKN recognizes the top-tier of students and professionals. Our members have distinguished themselves academically and have shown outstanding character and a positive attitude.
- 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 published 3x per year and all inducted members are invited to submit papers for publication.



Benefits of IEEE-Eta Kappa Nu: For Sections

- IEEE-HKN Inductees are dedicated to serving their communities and their profession.
 - IEEE-HKN inductees answer the call to serve... Do you need to fill a volunteer role in your section, ask an IEEE-HKN inductee and you will likely have a new volunteer.
 - IEEE-HKN chapters host numerous community service and outreach activities.
 - Many of these activities may be open for the public to participate.
 - IEEE-HKN alumni and student members are eager to learn and foster a spirit of excellence.



Benefits of IEEE-Eta Kappa Nu: For Sections

- IEEE-HKN Chapters generate IEEE members.
 - IEEE-HKN student inductees pay a one-time fee of \$70 USD.
 - \$32 of this fee is directed to MGA for a student IEEE membership.
- Most faculty within host departments are IEEE-HKN members.
 - Chapters can assist in connecting you with potential speakers at section conferences

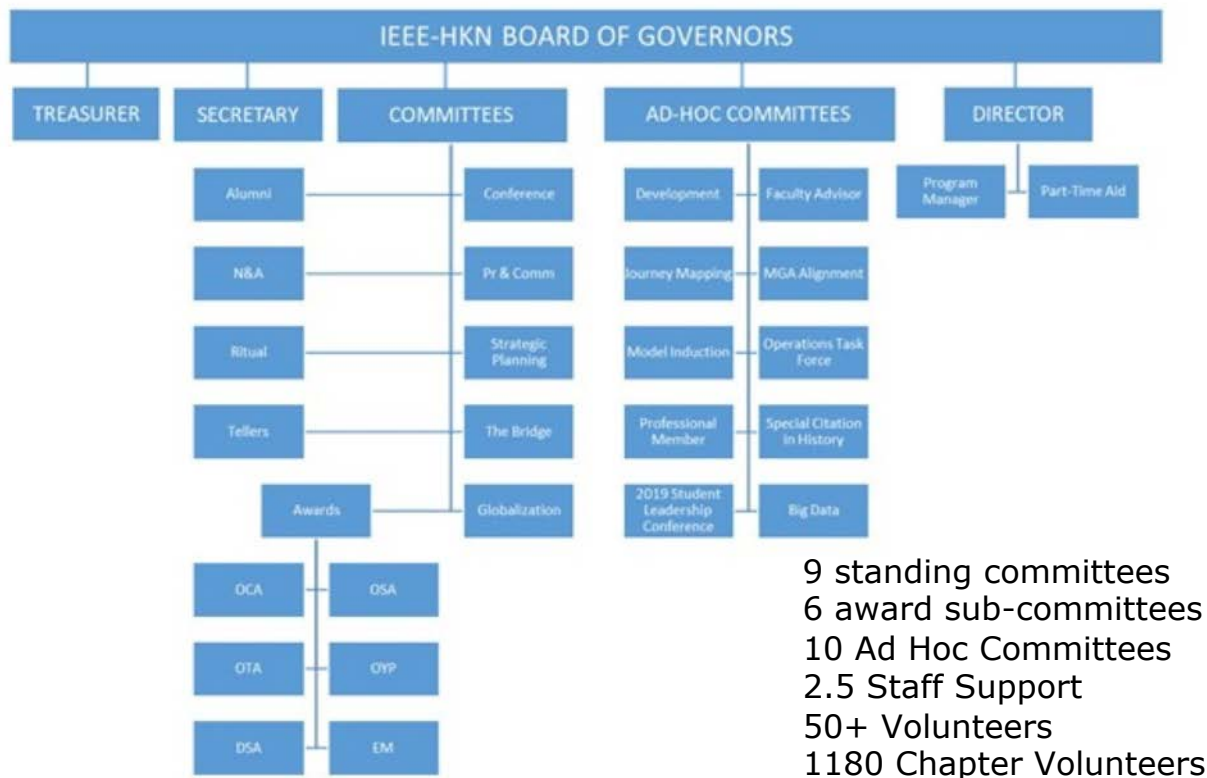


IEEE-HKN Board of Governors



L-R Rakesh Kumar, Enrique Tejera, Preeti Baja, Ed Rezek, Kyle Lady, Karen Panetta, Ron Jensen, Bernie Sander, Katie Brinker, Sean Bentley, Panagis Samolis, John DeGraw, Nancy Ostin, Stacey Bersani, Michael Benson, Steve Watkins (not pictured: Jim Conrad)

IEEE-HKN Organizational Chart



Signature Programs of HKN



IEEE-HKN
PATHWAYS  **Industry**

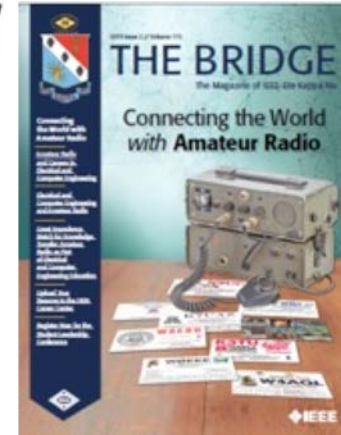
IEEE-HKN

OUTSTANDING
Chapter Award

IEEE-HKN
2019
KEY 
CHAPTER

IEEE-HKN

Student Leadership
CONFERENCE



Who is IEEE-HKN?



Larry Page
Founder of Google



Eric Schmidt
CEO of Google



Steve Wozniak
Founder of Apple



Paul and Irwin Jacobs
Founders of Qualcomm



David Filo
Founder of Yahoo!



Sabeer Bhatia
Founder of
Hotmail



Martin Cooper
Conceived the first
handheld mobile
phone



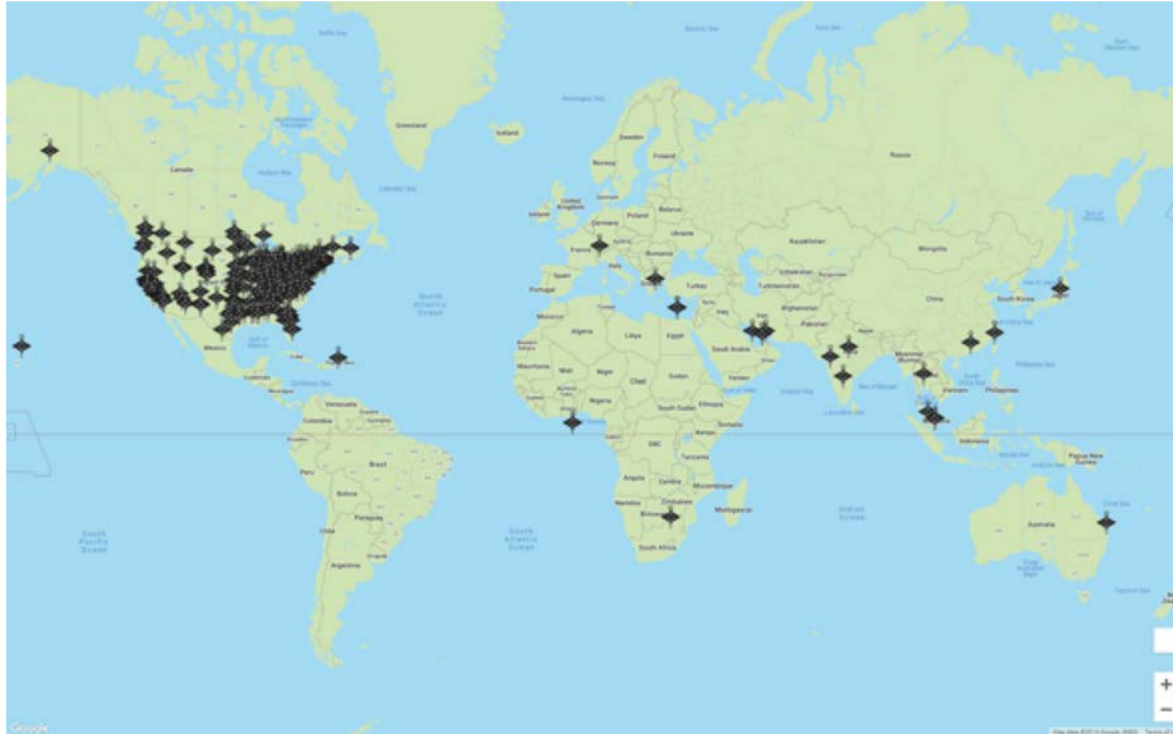
Henry Samueli
Founder of
Broadcom



Amar Bose
Inventor of Bose
Speakers



IEEE-HKN Chapters Around the World



The value and Impact of HKN

➤ Current active chapters:

Region 1: 45 Chapters	Region 6: 45 Chapters
Region 2: 32 Chapters	Region 7: 1 Chapter
Region 3: 41 Chapter	Region 8: 8 Chapters
Region 4: 33 Chapters	Region 9: 2 Chapters
Region 5: 41 Chapters	Region 10: 12 Chapters

➤ Chapters induct members, host events, and provide professional development opportunities among many other activities.

The value and Impact of HKN

- Chapters spread across the globe host thousands of events each year including:
 - Tutoring
 - Campus and environmental cleanups
 - Educating elderly members of the community on how to use technology
 - Corporate collaborations
 - K-12 school outreach (teaching, mentoring, promoting the profession, and more)

The value and Impact of HKN

- Chapters spread across the globe host thousands of events each year including:
 - Building community within the host department(s) including
 - Building community with other honor societies including discipline specific societies such as Pau Tau Sigma (Mechanical Engineering) and Tau Beta Pi, The Engineering Honor Society

The value and Impact of HKN

- Chapters spread across the globe host thousands of events each year including:
 - Collaborating with IEEE Student Branches
 - Serving and advising their host department(s) in areas including: Curriculum revision, Alumni outreach, space allocation, and more.
 - Organizing scholarly activities such as technical talks, industry visits, and distinguished lectures.

Benefit to the University of an IEEE-HKN Student Chapter

- Chapters provide **service** to the student body including:

Tutoring	Programs	Outreach	Social
Homework help/tutoring sessions	Tech Talks For all students	STEM outreach	Food Drives Movie Nights Contests
Exam Prep, Course Guides	Industry Visits, career programs	Community projects (robotics)	Lunch/Dinner with Professors
Grad School, Research help, Lab sessions	Leadership programs, ceremonies,	Pre-University Engineering Projects	Pre-exam party to relieve stress

Benefits to the Community of an IEEE-HKN Student Chapter

Habitat for Humanity, Engineering 4 Kids, "Rebuilding Together" low income housing restoration, Staff or Professor appreciation day, Food Pantry, Clothing Drives, Inter-Society activities, Engineering Sports Day, Trick or Treat for Unicef, Brushbots, Science Night, Scholarships, Project Accessibility, Lego Robots, Faraday Flashlights, "laser field" at a community day, Augmented Reality Workshop, Junkyard Derby, Admit Day, Highway Clean-up, Resume and Interview workshop, High School Robotics Clubs, charity volleyball tournament, E-day fundraiser, blood drive, snack night socials, and so much more.

Benefit to the Department of an IEEE-HKN Student Chapter

Recognition of the **Scholastic** achievements of the student body – recruitment incentive

Course Guides and peer advising

Town Hall for all students, Introduction to Engineering for new students

Tutoring and homework help. **Exam Prep** workshops and **labs**

Ambassadors for the department to prospective students, alumni and donors

The value and Impact of HKN

- Chapters spread across the globe host thousands of events each year including:
 - Social activities
 - Technical workshops
 - MUCH more.
 - Recognizing local IEEE-HKN members as well as others in their communities for upholding the values of the society.

The value and Impact of HKN

- IEEE-HKN, as a society, recognizes members and non-members each year through our award program:
 - Outstanding Student Award
 - Outstanding Chapter Award
 - Outstanding Young Professional
 - Outstanding Technical Professional

- From time to time, IEEE-HKN recognizes the contributions of senior members of the profession for their contributions along with their unimpeachable character and positive attitude by inducting them as an Eminent Member.

What Does an IEEE-Eta Kappa Nu University Chapter Do?

- 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.



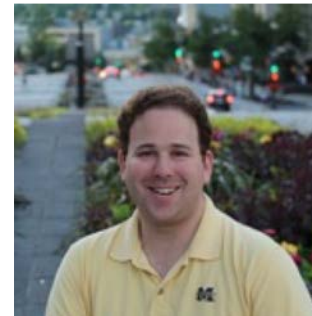
CONTACT FOR IEEE-HKN

- For more information, contact

Nancy Ostin
IEEE-HKN Director
Phone: +1 732 465 6611
E-mail: n.ostin@ieee.org



Michael Benson
Governor, IEEE-HKN Board of Governors
Phone: +1 781 249 1465
E-mail: mbenson@ieee.org



- Or visit www.hkn.org

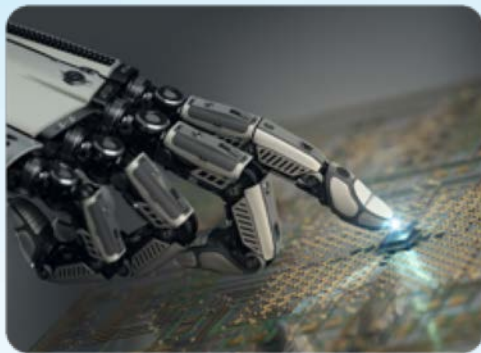


Questions



Section Education Outreach - Orientation

Sohaib Sheikh	SEOC Chair	Welcome
Witold Kinsner	Vice President EA	Introduction
Jamie Moesch	Managing Director EA	The Future of EAB: 5-year plan and Alignment with other OUs
Burt Dicht	Dir. of Student & Acad. Ed. Prog.	Pre-University and University Education Programs
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Sohaib Sheikh	SEOC Chair	Resources for IEEE Volunteers
Lorena Garcia	ARC Chair	EAB Awards
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EAB Resources for Volunteers

Sohaib Sheikh

Chair, EAB Section Education Outreach Committee



EAB Section Education Outreach Committee

- ▶ The EAB Section Education Outreach Committee (SEOC) reports to, and is a Standing Committee of, the EAB.

Mission

- ▶ To engage and support IEEE Sections and the Section Education Activities Chairs/Coordinators in their efforts to promote and implement EAB's products and services based on local educational needs.

Committee Members

Section Educational Outreach Committee (SEOC) Chair	Sohaib Sheikh
Member and Geographic Activities Board (MGA) Representative Region 1-6	Mary Ellen Randall
Member and Geographic Activities Board (MGA) Representative Region 7-10	Antonio Ferreira
Region Educational Activities Chair (REAC) Region 1	Marjaneh Issapour
Region Educational Activities Chair (REAC) Region 2	Stephen Bonk
Region Educational Activities Chair (REAC) Region 3	Sonya Dillard
Region Educational Activities Chair (REAC) Region 4	Anu Gokhale
Region Educational Activities Chair (REAC) Region 5	David Pierce
Region Educational Activities Chair (REAC) Region 6	Mostafa Mortezaie
Region Educational Activities Chair (REAC) Region 7	Rossitza Marinova
Region Educational Activities Chair (REAC) Region 8	Stamatis Dragoumanos
Region Educational Activities Chair (REAC) Region 9	Thiago Barbosa
Region Educational Activities Chair (REAC) Region 10	ChunChe 'Lance' Fung
IEEE Vice President, Educational Activities and Chair, EAB, Officer	Witold Kinsner

Resources

EA.IEEE.ORG

► Information related to EA programs

- Links to websites
- Flyers/promotional brochure links
- <https://ea.ieee.org/ea-programs>

► EAB news

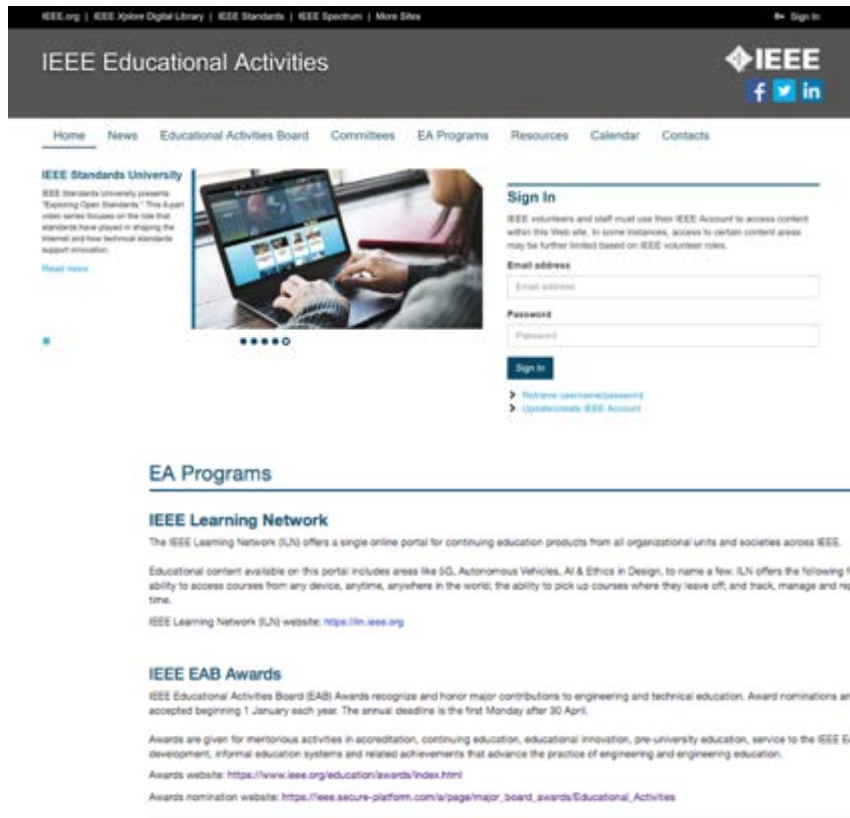
► Volunteer Development resources

► Position papers

► Contact details

► ... and much more!

► Access using your IEEE account

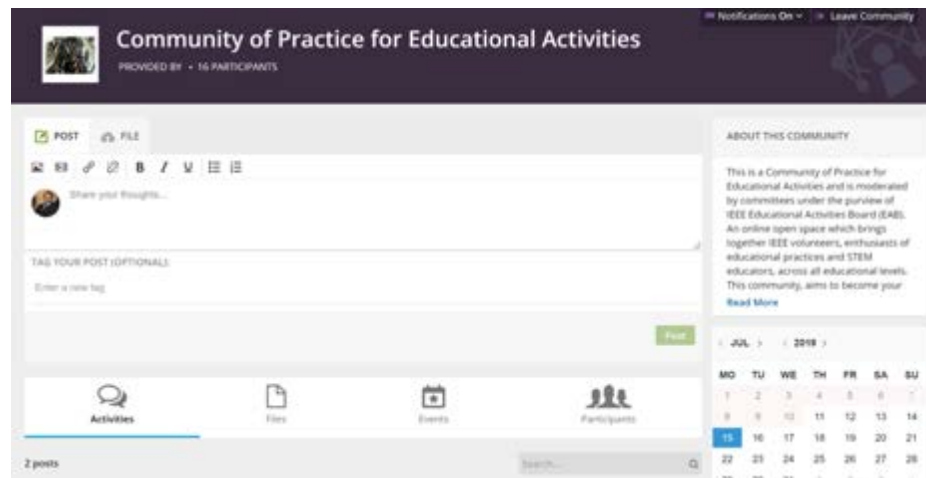


The screenshot shows the IEEE Educational Activities website. At the top, there is a navigation bar with links to IEEE.org, IEEE Xplore Digital Library, IEEE Standards, IEEE Spectrum, and More Sites. The main header features the IEEE logo and social media icons for Facebook, Twitter, and LinkedIn. Below the header, a navigation menu includes Home, News, Educational Activities Board, Committees, EA Programs, Resources, Calendar, and Contacts. The main content area is divided into two columns. The left column features a section titled "IEEE Standards University" with a sub-header "Expanding Open Standards" and a brief description of the program. The right column contains a "Sign In" section with a warning that volunteers and staff must use their IEEE Account to access content. Below this are input fields for Email address and Password, a Sign In button, and links to "Refresh your name/Password" and "Update/activate IEEE Account". To the right of the sign-in section is a small IEEE logo with social media icons and the text "acts". Below the main content area, there is a section titled "EA Programs" with a sub-header "IEEE Learning Network". This section describes the IEEE Learning Network (ILN) as a single online portal for continuing education products from all organizational units and societies across IEEE. It lists educational content areas like IQ, Autonomous Vehicles, AI & Ethics in Design, and mentions that ILN offers features like access to courses from any device, anytime, anywhere, and the ability to track, manage, and report on learner behavior. It also provides the ILN website URL: <https://ln.ieee.org>. Below this is a section titled "IEEE EAB Awards" which describes the IEEE Educational Activities Board (EAB) Awards, recognizing major contributions to engineering and technical education. It mentions that award nominations and scholarship applications are accepted beginning 1 January each year, with an annual deadline of the first Monday after 30 April. It lists award categories like meritorious activities in accreditation, continuing education, educational innovation, pre-university education, service to the IEEE EAB, employee professional development, informal education systems, and related achievements that advance the practice of engineering and engineering education. It provides the awards website URL: <https://www.ieee.org/education/awards/index.html> and the awards nomination website URL: https://ieee.secure-platform.com/a/page/major_board_awards/Educational_Activities. At the bottom of the page, there is a footer section titled "Powered by IEEE TRY Engineering" with a logo for TRY Engineering. The text in the footer states that TryEngineering.org provides online information on engineering careers with interactive activities intended for parents, teachers, school counselors, pre-university students, and that these resources are free and available to the public. It also mentions that TryEngineering.org offers visitors access to lesson plans, online games, accredited university programs in over 75 countries, and information about engineering careers.



Collabratec - Community of Practice for Educational Activities

- ▶ For IEEE members, STEM Educators and enthusiasts of educational practices
- ▶ Promote your events
- ▶ Discuss best practices and challenges with peers
- ▶ Get guidance from experienced volunteers
- ▶ Expand your network
- ▶ Get inspired!

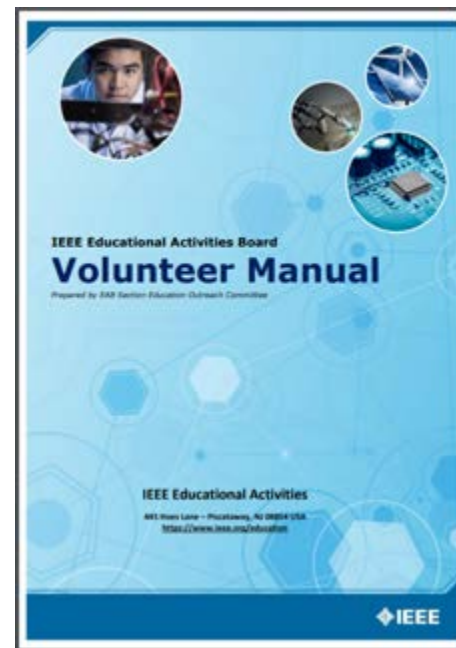


Webpage: <https://iee-collabratec.ieee.org/app/community/1312/Community-of-Practice-for-Educational-Activities/>
or <https://collabratec.ieee.org/> and search for community name



Volunteer Manual

- ▶ Volunteer Manual containing
 - Information regarding EAB programs and resources
 - Guidance on volunteer roles
 - Contact information
 - Available in English and Spanish



Webpage: Access on <https://ea.ieee.org> or directly via
https://ea.ieee.org/images/files/SEOC/IEEE_EA_Volunteer_Manual.pdf



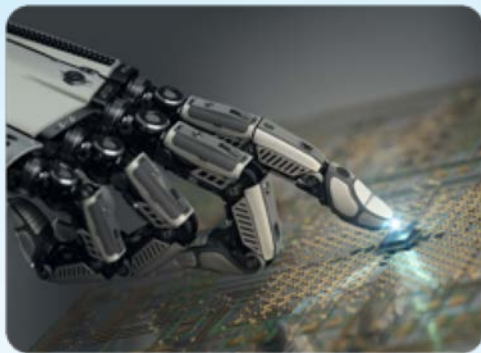
EA Insight

- ▶ Newsletter from EAB containing
 - News
 - Updates on program, products and services
 - Announcements
 - Resources
- ▶ Produced thrice per year
- ▶ Sent to all Section EA Chairs, Section Chairs, Region Directors and any position title that indicates education



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IEEE Educational Activities Awards Program

Lorena Garcia, Chair EAB Awards & Recognition Committee

IEEE EA Awards Program

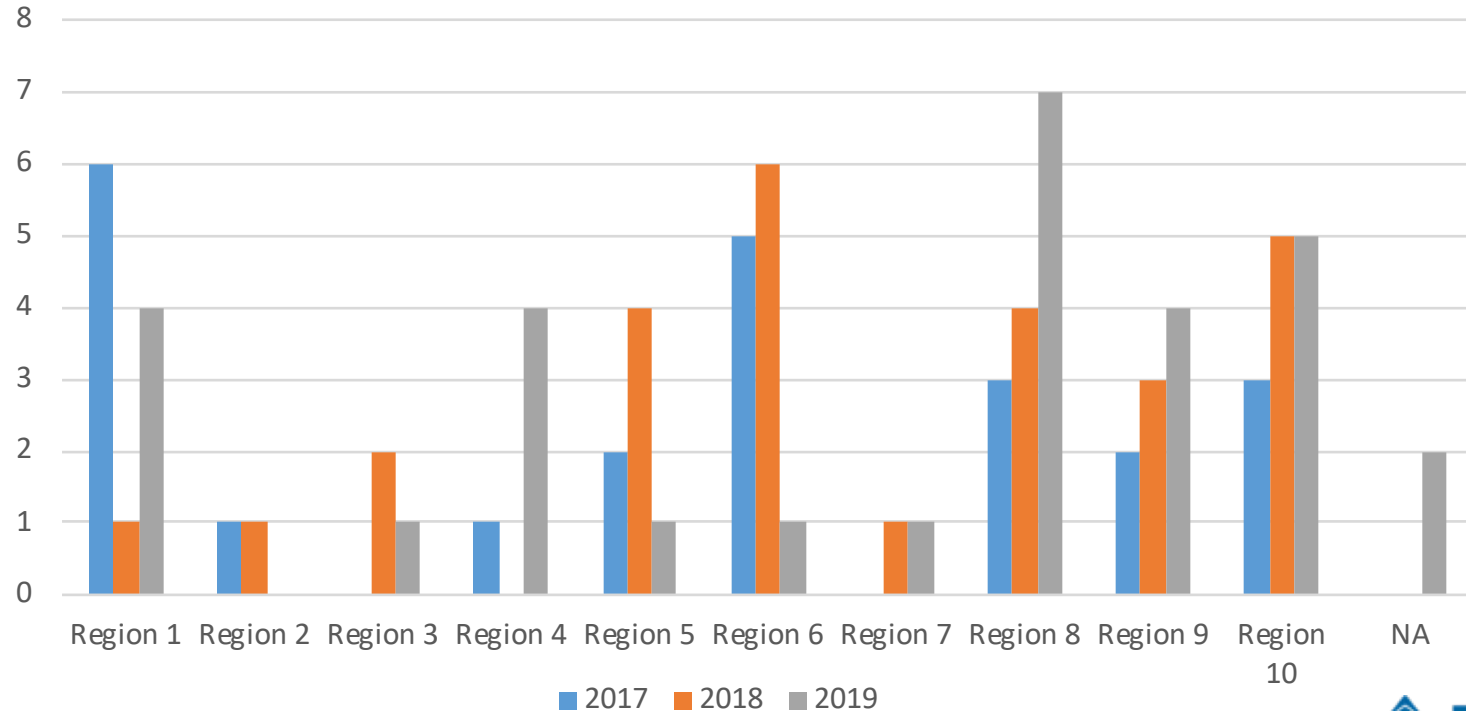
IEEE Educational Activities Board (EAB) Awards recognize and honor major contributions to engineering and technical education



2017 IEEE Educational Activities Board Awards Ceremony



2017-2019 EAB Awards Nominations & Scholarship Applications by Region



Meritorious Achievement Award in Accreditation Activities

The Meritorious Achievement Award in Accreditation Activities was established in 1984 by the EAB to provide recognition for efforts to foster the maintenance and improvement of education through the process of accreditation of engineering, engineering technology, computer science and applied science programs.

Meritorious Achievement Award in Continuing Education

The Meritorious Achievement Award in Continuing Education was established in 1984 by the EAB to provide recognition for dedicated contribution to the design, delivery and support of continuing education courses and programs in the fields of interest to IEEE Members.

Major Education Innovation

The Major Education Innovation Award was established in 1984 by the Educational Activities Board of the IEEE to recognize individuals who have distinguished themselves for outstanding educational innovation in a field of interest of the IEEE.

Meritorious Achievement Award in Outreach and Informal Education

The Meritorious Achievement Award in Outreach and Informal Education was established in 2006 by the IEEE Educational Activities Board (EAB) to recognize members, who volunteer time and effort for the informal education community, and highlight the benefit that their work provides to pre-university and university teachers, students, parents of students, and the public. These volunteers will have served in advisory, educational or fiduciary positions and used their professional background to enhance understanding and involvement in IEEE's fields of interest by users of the informal education system.



Meritorious Achievement Award in Pre-University Education

The Meritorious Achievement Award in Pre-University Education recognizes individuals for work in a pre-university school, or those that influence schoolbased activities for pre-university students. These individuals should have inspired an appreciation and understanding of Mathematics, Science and Technology and the engineering process in pre-university students, and who have encouraged them to pursue technical careers.

Meritorious Service Citation

The EAB Meritorious Service Citation was established by the IEEE EAB in 1988 to recognize those dedicated volunteers who have given outstanding and sustained service to the aims and objectives of the EAB



Section Professional Development

The Section Professional Development Award was established by the IEEE EAB in 2001 and recognizes IEEE Sections for major contributions to IEEE members in the areas of lifelong learning, continuing education, and professional development. This award is given to Sections whose contributions to continuing education and professional development are outstanding as evidenced by their quality, comprehensiveness, innovation or impact. This award was first offered in 2003.

Society / Council Professional Development

The Society/Council Professional Development Award was established in 2003 by the IEEE EAB and recognizes an IEEE Society or Council for major contributions to the professional development of its members through the provision of outstanding products, services and support in the areas of lifelong learning, continuing education, and professional development.



Employer Professional Development

The Employer Professional Development Award was established in 1995 by the IEEE EAB and recognizes organizations employing IEEE members for contributions to employee continuing education and professional development. The award is given to organizations whose contributions to employee continuing education and professional development are outstanding as evidenced by their quality, comprehensiveness, innovation, or impact.

Vice President's Recognition Award

The EAB Vice President's Recognition Award was established in 2001 by the IEEE EAB to give the Vice President, Educational Activities an opportunity to recognize IEEE Graduate Student Members, Members, Senior Members or Fellows, or organizations for contributions that do not fit within formal EAB award structure, and that have had a significant and substantial effect on the practice of engineering and of engineering education related to the mission of the EAB.



Standards Education Award

EAB/SA Board of Governors Standards Education Award was established by the Educational Activities Board (EAB) and the Standards Association (SA) Board of Governors to recognize significant contributions in support of the IEEE Standards Education mission of:

- ▶ Promoting the importance of standards in meeting technical, economic, environmental, and social challenges
- ▶ Disseminating learning materials on the application of standards in the design and development aspects of educational programs
- ▶ Actively promoting the integration of standards into academic programs and providing short courses about standards needed in the design and development phases of professional practice

IEEE Life Members Graduate Study Fellowship in Electrical Engineering

The IEEE Board of Directors established the IEEE Life Members Graduate Study Fellowship in Electrical Engineering in February 2000. The IEEE Life Members Fund finances the fellowship. The fellowship is awarded to a first year, full-time graduate student for work in any area of electrical engineering at an engineering school/program of recognized standing worldwide.

The Charles LeGeyt Fortescue Graduate Scholarship

Established in 1939 as a memorial to Charles LeGeyt in recognition of his valuable contributions to the field of electrical engineering; the Charles LeGeyt Fortescue Scholarship is awarded to a beginning graduate student, every year for one year of full-time graduate work in electrical engineering. The Charles LeGeyt Fortescue Graduate Scholarship Fund sponsors it.



2018 EA Awards Recipients



Ikhlaz Sidhu - Major Education
Innovation Award



Jorge Contreras – Standards
Education Award



Aravindhnan Anbazhagan -
Meritorious Achievement
Award
in Pre-University Education



Augusto Herrera - Meritorious
Achievement Award
in Pre-University Education



Tariq Durrani - Meritorious
Service Citation



Richard Cliver - Meritorious
Achievement Award in
Accreditation Activities



Franc Noel - Meritorious
Achievement Award in
Accreditation Activities



IEEE Power & Energy Society -
Society/Council Professional
Development Award



Hunter Gene DesRoches - IEEE
Life Members Graduate Study
Fellowship in Electrical
Engineering



Mohd Toaha Umar - The
Charles LeGeyt Fortescue
Graduate Scholarship



2019 EA Awards Program

Recipients will be announced soon

2020 EA Awards Program

Deadline: May 4, 2020

<https://www.ieee.org/education/awards/index.html>

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STEM Challenge

in IEEE Curtin Malaysia Student Branch (2013 - Present)

Vision: IEEE will be essential to the global technical community and to technical professionals everywhere; as well as being universally recognized for the contributions of technology and of technical professionals in improving global conditions.

STEM Challenge 2019 Miri Division is a programme initiated by IEEE Curtin Malaysia Student Branch and supported by Chumbaka Miri Branch and All Aboard Young Leader Centre (AAYLC). This programme is aimed to bridge the following three education gaps in Malaysia:

- Low esteem in learning science and mathematics among youth causes the alarming decreasing number of students taking up the STEM education.
- Lack of programming knowledge and learning in the secondary school syllabus.
- Critical problem-solving skill is not well presented in the classroom teaching.

Tech Track (Arduino Project)

Collaborated with CHUMBAKA and
AAYLC

Science Track (Science Project)

IEEE Championship



Organized
by:



Curtin University
Sarawak Malaysia

Supported
by:



chumbaka



Mentor
(Curtin Uni Student)

Mentee
(Secondary School Student)

Goal of STEM Challenge:

- To reach out and create awareness/interest in Science, Technology, Engineering and Mathematics (STEM) education to the secondary school students.
- To mentor student groups from secondary schools to innovate to solve real-life problems and participant in Sime Darby STEM
- To increase the interest of science among youth to solve the real-life problems.

Activities for Secondary School Students:

- Problem Statement defining
- Prototype building
- Pitching

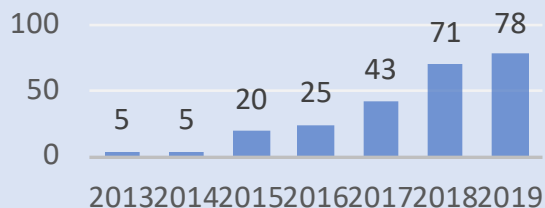
Highlighted Activities:

- Monthly Mentor Meeting
- Train the Trainers (TTT)
- School Visit for mentoring
- Secondary School Bootcamp
- Judging Day in IEEE STEM Playground in the Park
- Finalist will join the National competition in Kuala Lumpur





Amount of School Teams



Achievement of secondary school:

2015 - SMK Merbau and SMK Pujut

were qualified for final.

2016 - SMK St. Joseph won the bronze award of National Competition.

2017 - The selected team qualified for National Top 15 YIC are SMK Pei Min and SMK Riam.

2018 - SMK Lutong was awarded the first runner up in the National Competition

IEEE Curtin Malaysia Student Branch's Achievement:

- 1st Place in Malaysia Section Outstanding Student Branch Award, 2017.
- 1st Place in IEEE IAS Humanitarian Project Contest, 2017.
- IEEE IAS Outstanding New Chapter Award, 2017.
- IEEE R10 SAC Student Branch Award, 2017.
- Datuk Lee Kim Shin Outstanding Student Community Contribution Award, 2017.
- IEEE HAC Event Grants Award, 2018.
- FOES Community Engagement & Student Leadership Award, 2019.



: IEEE Curtin Malaysia Student Branch

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IEEE Educational Activities

Conrad Attard Chair IEEE Malta. TISP activities in collaboration with Ministry of Education in Malta and Industry Partners

TISP Event – in a nutshell

Make it a success – IEEE Malta Section

Let them get to know each other



Cool and Fun



Recognize them



Do not use school setups



Make them your ambassadors

shorturl.at/fsEH7

shorturl.at/swGM3

Like us on FB /ieeemalta



Our Recipe

IEEE Educational Activities – Malta Section

- ▶ Outreach and recruiting teachers.
- ▶ Training volunteers from IEEE to help you on the day.
- ▶ Venue : Collaborate – Example: Ministry of Education, Microsoft Innovation Center and next year Church Schools .
- ▶ Quality of Event. Brand it! & Make it the best!
- ▶ Document everything through photography and videos. Focus on the important things.
 - - Does this pic reflect what was really happening? –
- ▶ Do not create a school setup. Make it look fun!
- ▶ Start with something fun and cool! Get to know each other.
- ▶ Spread the word around. Make them your ambassadors
- ▶ Give them resources
- ▶ Recognize their achievement. Keep in touch with them after.

OBRIGADO
gracias
どうも
ARIGATO
grazas
GRAZZI
THANKS
qujan
PALDIES
danke
DANKU
OBRIGADO
mes
감사합니다
kösz
благодаря
nvala
DANKU
takk
MERSI
merci
obrigado
danke schön
kösz
PALDIES
muchas gracias
ありがとう
TEŞEKKÜR EDERİM
MOLTE GRAZIE
GO RAIBH MAITH AGAT
danke
THANK YOU
благодаря
TAK
どうも
muchas gracias
asante
vielen dank
grazie
DZLEKI
Gràcies
TACK
TEŞEKKÜR EDERİM
muchas gracias
obrigado
спасибо
MULTUMESC
多謝
NA GODE

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Region 6 Educational Activities

July 15, 2019

Mostafa Mortezaie, Region 6 Educational Activities Chair
mortezaie@ieee.org

Event: Evening Program on February 18, 2019

- Networking
- Overview of EPICS in IEEE
- Student Projects Demo
- Student Presentations
- Awards Presentation

Collaborators:

- San Jose State University's EPICS program
- Santa Clara University's Frugal Innovation Hub
- EPICS in IEEE
- IEEE Foundation

Purpose: Bringing visibility to EPICS in IEEE

- Non-profit organizations
- Universities
- Corporations
- Fund raising

Awards:

- San Jose State University (\$10,000)
- Santa Clara University (\$10,000)



Major San Francisco Bay Area Television network stations covered the EPICS Expo and provided coverage on the night of the event.

EPICS Example



FLOMOSYS project

Providing SC Water District with a real-time information system that will deliver water level height information of Coyote Creek, facilitating the prediction and evacuation process. Developed for San Jose Mayor's Office and the Santa Clara Water District.



Safe Storage 2.0

Homelessness is a major issue in the Bay Area. SJSU students working with Gilroy Compassion Center and AtHack designed storage units for homeless. Features include safe storage facility, multiple electrical charging plug options, and digital lock mechanism.

Section Education Outreach - Orientation

Sohaib Sheikh	SEOC Chair	Welcome
Witold Kinsner	Vice President EA	Introduction
Jamie Moesch	Managing Director EA	The Future of EAB: 5-year plan and Alignment with other OUs
Burt Dicht	Dir. of Student & Acad. Ed. Prog.	Pre-University and University Education Programs
Bruce Kraemer	Chair, CEC	Continuing Education Programs
Michael Benson	HKN Volunteer	IEEE Eta Kappa Nu (HKN) Programs
Sohaib Sheikh	SEOC Chair	Resources for IEEE Volunteers
Lorena Garcia	ARC Chair	EAB Awards
Best Practices and Inspirational Education Activities from OUs		
Tay Chuan Zhi	Curtin SB, Malaysia	STEM Challenge to Bridge the Education Gap in Malaysia
Conrad Attard	Malta Section, Malta	TISP Activities in Collaboration with Ministry of Education in Malta and Industry Partners
Mostafa Mortezaie	Region 6 EA	EPICS in IEEE Expo

Contact us

Volunteer Portal: <https://ea.ieee.org>

Website: <https://www.ieee.org/education>

Email: askeducation@ieee.org

Facebook: <https://www.facebook.com/IEEEeducation/>

Twitter: @IEEEeducation

Collaboratec Community: <https://ieee-collabratec.ieee.org/app/community/1312/Community-of-Practice-for-Educational-Activities>



Appendix

Professional Leadership Team

Terri Ciccodacola
IT Business Partner



Roopalee Kharm
HR Business Partner



Jamie Moesch
Managing Director,
Educational Activities



Larry Bolsch &
Mike Lombardi
Financial Solutions



Rachel Warnick
Manager, Gov. and
Project Management



Burt Dicht, Director,
Student & Academic
Education Programs



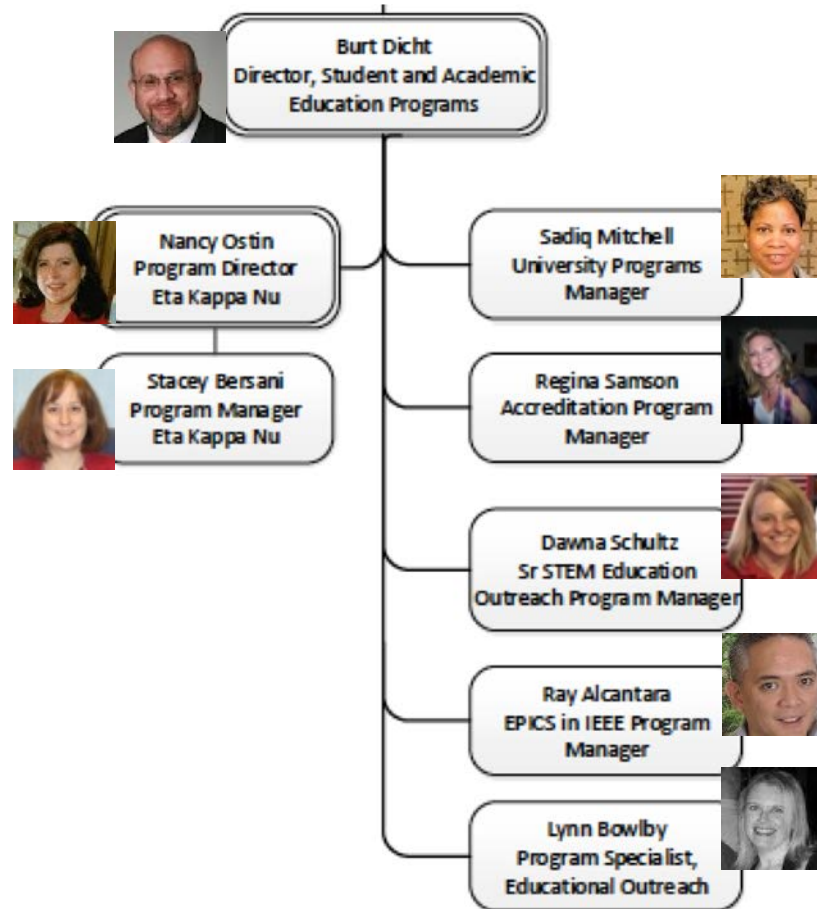
Marguerite Corazza,
Director, CE Product
& Design Services



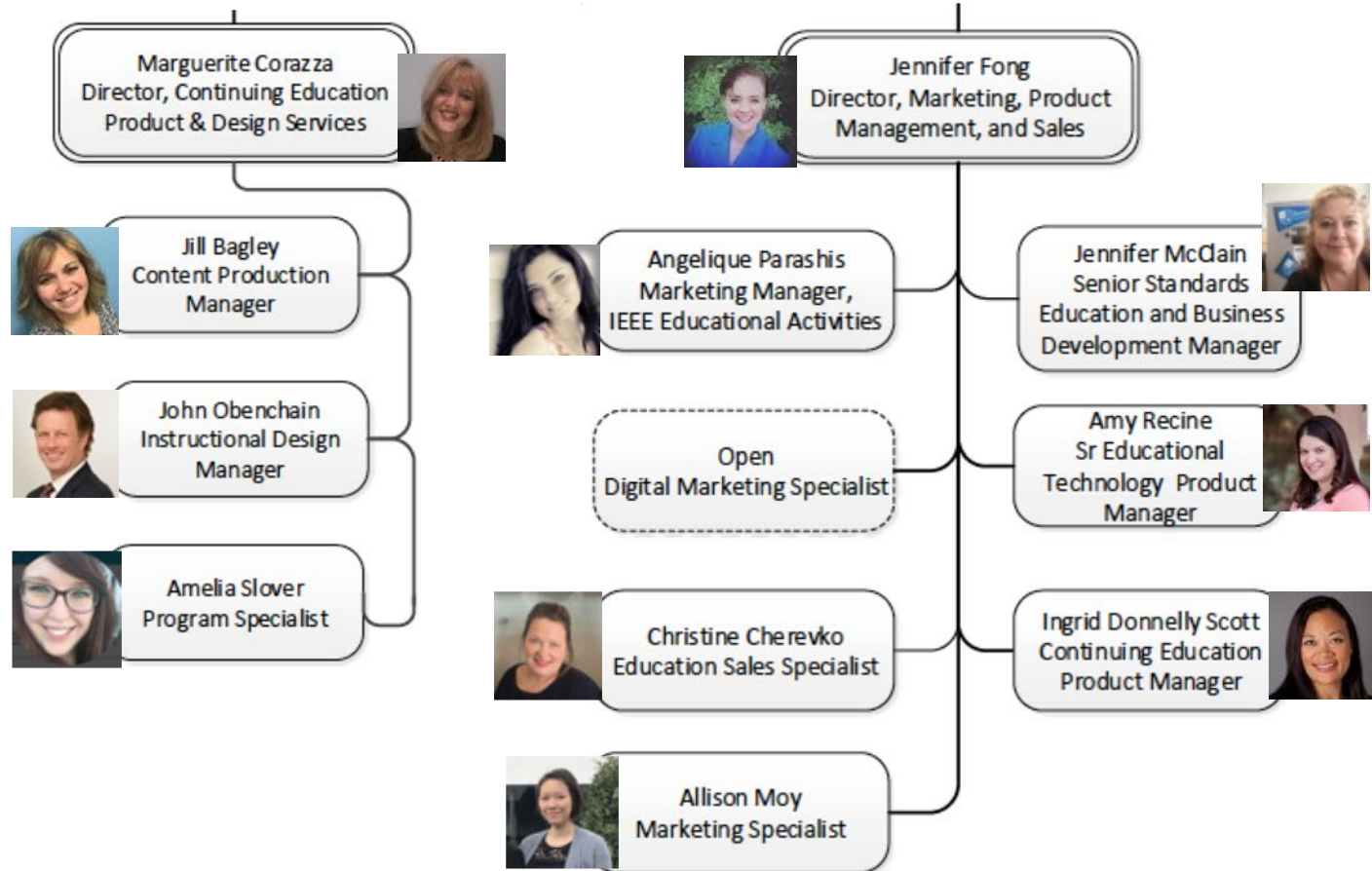
Jennifer Fong,
Director, Marketing,
Product Mgmt & Sales



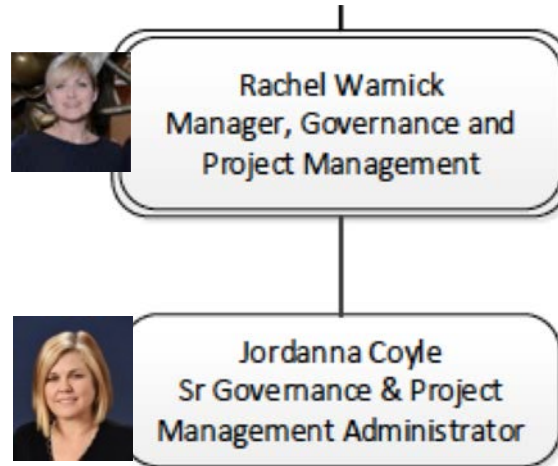
Student and Academic Education: Staff Structure






Professional Education: Staff Structure



Governance and Project Management: Staff Structure



<p>Educational Activities Vice President and Chair</p>  <p>Witold Kinsner</p> <p>Region 7</p>	<p>Immediate Past Vice President</p>  <p>S. K. Ramesh</p> <p>Region 6</p>	<p>Nominations & Appointments (N&A) Chair</p>  <p>Saurabh Sinha</p> <p>Region 8</p>	<p>EAB Treasurer</p>  <p>Stephen Phillips</p> <p>Region 6</p>	<p>Awards & Recognition Committee (ARC) Chair</p>  <p>Lorena Garcia</p> <p>Region 9</p>	<p>Continuing Education Committee (CEC) Chair</p>  <p>Bruce Kraemer</p> <p>Region 3</p>	<p>IEEE Eta Kappa Nu Chair</p>  <p>Karen Panetta</p> <p>Region 1</p>
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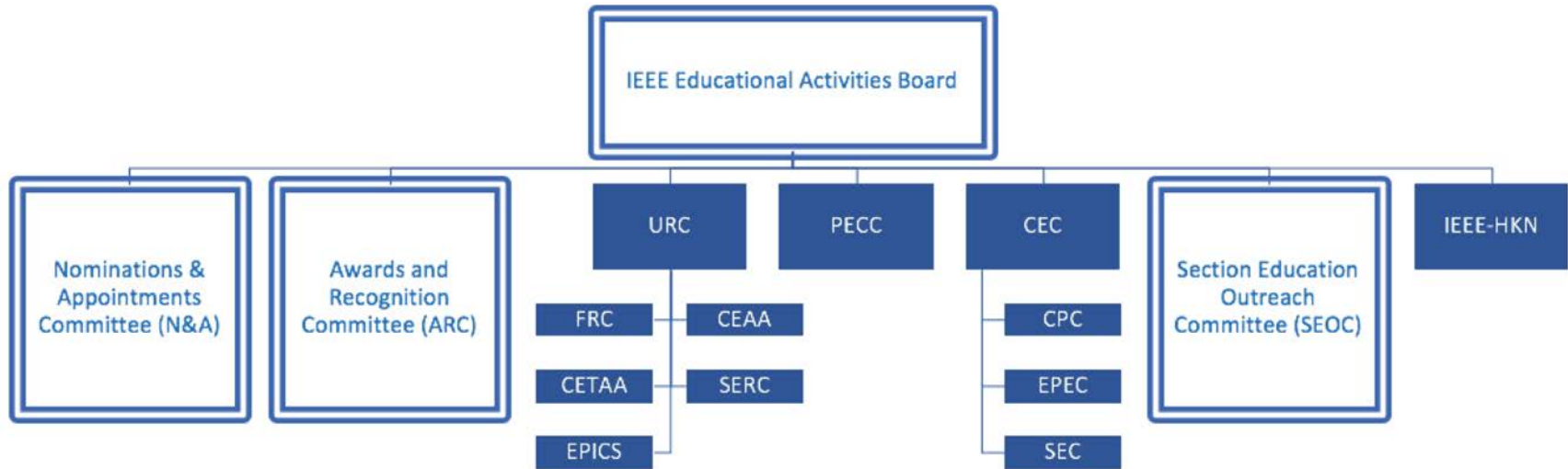
<p>University Resources Committee (URC) Chair</p>  <p>Timothy Kurzweg</p> <p>Region 2</p>	<p>Section Education Outreach Committee (SEOC) Chair</p>  <p>Sohaib Sheikh</p> <p>Region 8</p>	<p>Pre-University Education Coordinating Committee (PECC) Chair</p>  <p>Supavadee Aramvith</p> <p>Region 10</p>	<p>Standards Association (SA) Representative</p>  <p>Howard Wolfman</p> <p>Region 4</p>	<p>Technical Activities Board (TAB) Representative</p>  <p>Maciej Ogorzalek</p> <p>Region 8</p>	<p>Technical Activities Board (TAB) Representative</p>  <p>Wan Chi Siu</p> <p>Region 10</p>
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2019 IEEE Educational Activities Board

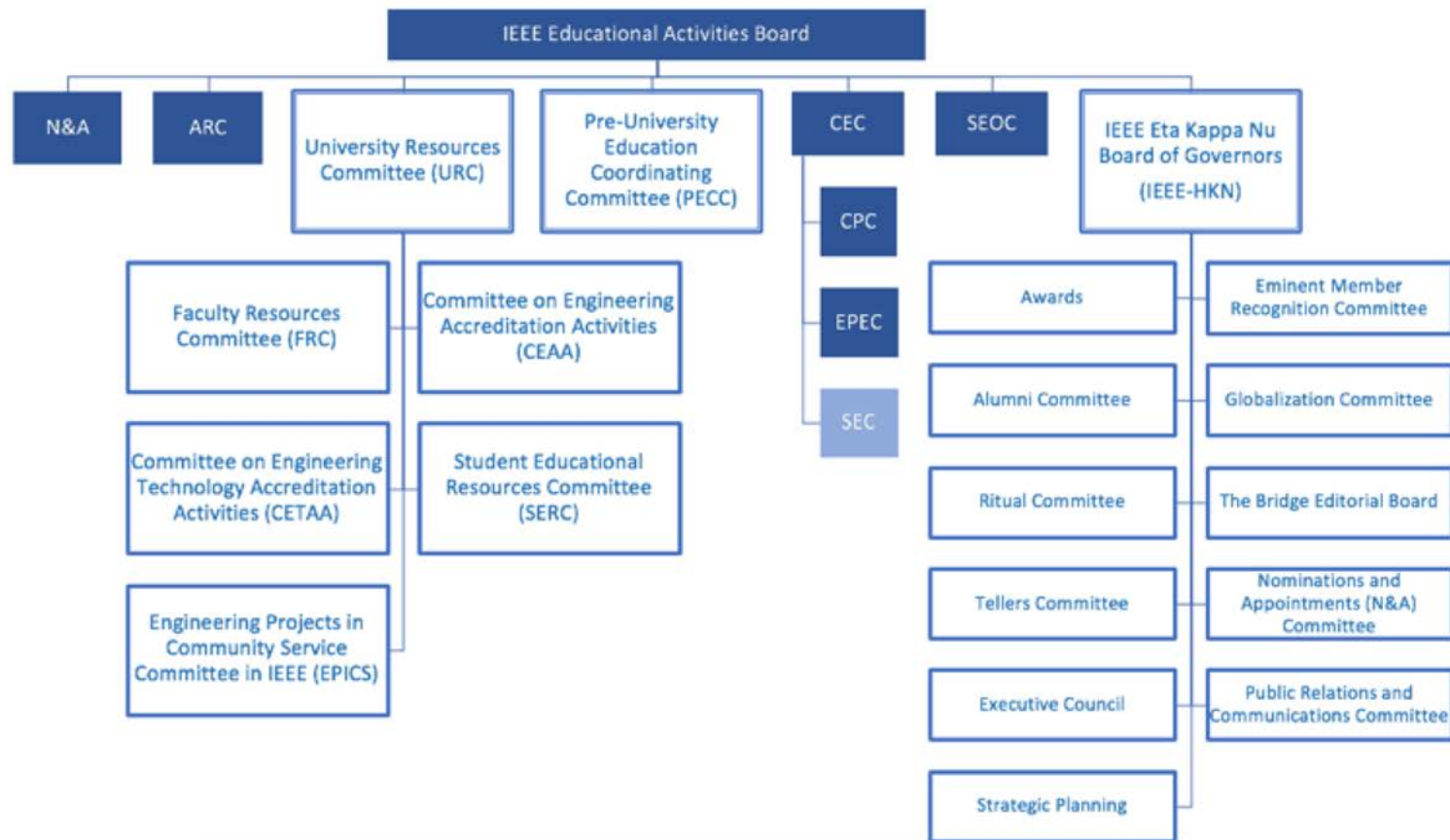
15 Voting, 3 Non Voting
18 Total

<p>Member & Geographic Activities Board (MGA) Representative</p>  <p>Antonio Ferreira</p> <p>Region 9</p>	<p>Member & Geographic Activities Board (MGA) Representative</p>  <p>Mary Ellen Randall</p> <p>Region 3</p>	<p>Young Professionals (YP) Observer</p>  <p>Rafal Sliz</p> <p>Region 8</p>	<p>Women in Engineering (WIE) Observer</p>  <p>Sharon DeVivo</p> <p>Region 1</p>	<p>Staff Secretary</p>  <p>Jamie Moesch</p> <p>Region 1</p>
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Governance and Administration: Committee Structure



Student and Academic Education: Committee Structure



Continuing Professional Education: Committee Structure

