IEEE Educational Activities: SEOC Orientation 2020

- 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

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Section Education Outreach Committee

Supavadee Aramvith, SEOC Chair
2020 Section Education Outreach Committee

Supavade Aramvith
SEOC Chair (Region 10)

Region 1
Vincent Socci

Region 2
Stephen Bonk

Region 3
Mary Ellen Randall

Region 4
Anu Gokhale

Region 5
David Pierce

MGA Rep (R1-6)
Babak Dastgheib-Behesti

Region 6
Mostafa Mortezaie

Region 7
Rossitza Marinova

Region 8
Stamatis Dragoumanos

Region 9
Colin Gopaul

Region 10
Lance Fung

MGA Rep (R7-10)
Teofilo Ramos

Region 7, Past EAB VP
Witold Kinsner
## Agenda

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Stephen M. Phillips, Ph.D., P.E.

2020 IEEE Vice President, Educational Activities

Professor and Director of the School,
School of Electrical, Computer and Energy Engineering
Arizona State University
IEEE Governance Organization

Toshio Fukuda
2020 IEEE President

IEEE Governance Organization

PSPB

Educational Activities Board

Standards Assoc. Board

IEEE-USA Board

Board of Directors

MEMBERS

Assembly

Member & Geo Activities Board

Regions & Sections

Technical Activities Board

Societies & Tech. Councils

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<td>Witold M. Kinsner</td>
<td>Past VP, Nominations &amp; Appointments Chair</td>
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<td>Antonio Ferreira</td>
<td>Treasurer</td>
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<td>Sharon DeVivo</td>
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**2020 IEEE Educational Activities Board**

17 members, 14 voting, 3 non-voting
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

- Pre-University
- University
- Young Professionals
- Advanced and Mid-Career Professionals
- Retired Professionals
IEEE Strategic

2020-2025

OUR MISSION
We foster technological innovation and excellence for the benefit of humanity.

OUR VISION
We will be essential to the global technical community and to technical professionals everywhere, and be universally recognized for the contributions of technology, and of technical professionals in improving global conditions.

CORE VALUES
- Trust
- Growth &
- Global Community
- Partnership
- Integrity
- Service to Humanity

IEEE WILL:
- Drive global innovation through broad collaboration and the sharing of knowledge
- Enhance public understanding of engineering and technology and pursue standards for their practical application
- Be a trusted source of educational services and resources to support life-long learning
- Provide opportunities for career and professional development
- Inspire a worldwide audience by building communities that advance technical interests, inform public policy, and expand knowledge for the benefit of humanity

IEEE will foster a collaborative environment that is open, inclusive, and free of bias and will continue to sustain the strength, reach, and vitality of our organization for future generations.

www.ieee.org/strategic-plan
Approved by the IEEE Board of Directors, November 2019
Core Purpose
To develop and deliver educational products and services to our members, professionals, educators, and students that excite and inspire understanding of IEEE’s fields of interest; support career preparation and professional enhancement, foster diversity, and ensure access to lifelong learning opportunities.

Areas of Focus
- Member value
- Impact on the profession
- Resource for practitioners
- Service provider to all of IEEE
- Global relevance of our offerings with assured local quality
- Resource for pre-university educators
- Customer value
- Revenue generation to invest in impact
Pre-university programs

Continuing education

EA Awards

University programs

Reduced EA focus - partners to lead

EAB IEEE Foundation partnerships

IEEE Learning Network

IEEE eLearning Library

IEEE Accreditation

Try-nano.org

Try-computing.org

Global accreditation
2020 IEEE Board of Directors Strategic Retreat

18-19 January 2020, Fukuoka, Japan

- Attendees: IEEE Board of Directors, Management Council, Japan Council Chair, IEEE WIE Committee Chair, and IEEE Young Professionals Chair

- Focused on the educational needs of our members, technical professionals, and engineers

- Explored expanding opportunities to provide continuing education as a unique value proposition
The 2020 IEEE Ad Hoc Committee on Lifelong Learning and Continuing Education is established to further the recommendations identified during the January 2020 IEEE Board of Directors Strategic Planning Retreat.

The Ad Hoc Committee will **work to expand the concept of a program focused on the lifelong education needs of members and potential members with a primary emphasis on industrial practitioners** and should be priced to reach a broad audience. Additional lifelong learning and continuing education needs and scope may also be explored by the committee.

The Ad Hoc Committee is charged with developing an action plan with both short-term and long-term objectives and with **reporting the initial results to the IEEE Board of Directors in June 2020**.
### Co-Chairs

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<td>Kazuhiro Kosuge</td>
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<td>Mary Ward-Callan</td>
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**2020 IEEE Ad Hoc Committee on Lifelong Learning and Continuing Education**

IEEE Proprietary
Steps for 2020

Select Target Area for Pilot

- Based on existing content: e.g.: Deep learning, IoT, 5G, Smart Grid

Curate and Assemble Content

- Work with applicable society, council, technical communities

Measure and Analyze

- Measure usage and conduct member surveys
- Audience segmentation and outreach activities

Launch and Market Prototype

- Engage applicable society, standards, future directions, instructional designers, etc.

Build Learner Journey

Curation & Learner Journey – Happen in Parallel
# Agenda

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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
- IEEE Learning Network simplifying course discovery and consolidating their learning progress
- Significant improvements to course program quality
- Micro-volunteering opportunities through Volunteer STEM Portal in development
Recommendation #2
Develop Pre-College STEM activities for local units
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

Toolkit for volunteers to manage local events for pre-university students
Educational Activities Leadership Team

Jamie Moesch
Managing Director, Educational Activities

Larry Bolsch & Mike Lombardi
Financial Solutions

Priscilla Amalraj
IT Business Partner

Roopalee Kharma
HR Business Partner

Rachel O. Warnick
Manager, Gov. and Project Management

Burt Dicht, Director, Student & Academic Education Programs

Marguerite Corazza, Director, CE Product & Design Services

Jennifer Fong, Director, Educ Product, Sales & Mktg
Progress and Positives in 2019

✓ In July the IEEE Learning Network was launched with
  • Content from 17 OUs across the organization
  • Increased number of courses sold to individuals and revenue

✓ Launched 4 new sets of course programs covering:
  • 5G Networks (in collaboration with Nokia), Enterprise Blockchain,
    IEEE Standard 1547-2018, Finite Element Method for Photonics

✓ Increased IEEE TryEngineering Summer Institute attendance by 85%+ to 155 students including 30 needs based scholarships

✓ Grew the number of TryEngineering Together classrooms from 11 to 19 and the number of student/mentor matches from 205 to 470.

✓ Record year for IEEE-HKN with
  • Over 3,000 inductions
  • 85,000+ hours of service and 1,000+ activities reported
  • Sponsorship revenue nearly USD 50,000
## Educational Activities Priorities for 2020

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<td>President’s Scholarship</td>
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Professional Education: Staff Structure
IEEE Continuing Professional Education (CPE)

Providing professional education for working engineers and technologists

Who We Serve:
- IEEE Members and other working professional engineers with a bachelor’s degree or higher
- Institutions with a need for workforce development training solutions

What We Offer:
- Continuing professional education online courses, virtual events, etc.
- Cost-effective training solutions for institutions on a broad range of engineering topics
- CEUs/PDHs to help maintain professional licenses
One platform for discovery of continuing education across IEEE

Shared learning management system for continuing education across IEEE

Built to improve learner experience with continuing education from IEEE
# Recent Course Program Topics

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

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<td>Cybersecurity for Today’s Environment</td>
<td>5G Networks</td>
<td>IEEE Standard 1547: Connecting Distributed Energy Resources</td>
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<td>Introduction to Blockchain Technology</td>
<td>Finite Element Method for Photonics</td>
<td>IEEE Guide to Autonomous Vehicle Technology</td>
<td>Modernizing the Smart Grid</td>
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<td>Artificial Intelligence and Ethics in Design: Part 1</td>
<td>Artificial Intelligence and Ethics in Design: Part 2, Responsible Innovation</td>
<td>IEEE Introduction to Edge Computing</td>
<td>Enterprise Blockchain for Healthcare, IoT, Energy and Supply Chain</td>
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[http://iln.ieee.org](http://iln.ieee.org)
The 2020 eLearning Front List

Cutting-edge learning courses coming from Educational Activities in 2020

- Automotive Cybersecurity
  - Partner: Computer Society

- Digital Transformation
  - Partner: Future Directions

- Machine Learning
  - Partner: Computational Intelligence Society

- Artificial Intelligence Standards
  - Partner: IEEE Standards Association
Free Webinars to Support Academic Faculty Transitioning to Distance Learning

Keep track of new events as they are added on the IEEE Innovation at Work site:

https://innovationatwork.ieee.org/events/virtual-events/
IEEE Tech Talk Virtual Event Series

Free, 30-45 minute conversations with technical professionals from IEEE who are working on technologies that are impacting the pandemic response

A different topic is offered each week (usually!)

Live video of speakers and moderator

Q&A at the end

https://innovationatwork.ieee.org/events/virtual-events/
Credentials for Learning Achievement

IEEE Certificates Program

- Offered Today:
  - Certificates of Participation
  - Continuing Education Units (CEUs)
  - Professional Development Hours (PDHs)

- Potential Future Offerings:
  - Digital badges
  - Certificates in certain topic areas
  - Microcredentials
IEEE | Rutgers Online Mini-MBA for Engineers

- Ten 3.5-hour self-paced online modules
  - Topics include: Strategy, Product Development, Negotiation, Economics, etc.
  - Content refresh in progress for 2020
- Live interactive sessions with Engineering and Business faculty
- Online discussion forum
- Customizable Capstone project
- Earn certificates and credits
  - IEEE and Rutgers Executive Education certificates
  - Three credits towards future MBA degree
  - Credits towards Professional Engineering license
- $3,495 per seat
  - Minimum 10 seats

“This program enhanced my skills in the engineering and management field. It was really valuable as I learned many things which I apply in my daily routine.”
~ Maria Efthymiou, IT/Web Developer at a Public Utility

The program was super interesting, covering different topics presented by experts as well as professors with deep knowledge and hands-on experience. Videos of lectures were of good quality.”
~ Almedin Kavaz, Operations Manager at a Leading Regional Security Coordinators Company
Online learning program designed to provide non-native English speakers with a working knowledge of English techniques and vocabulary that are essential for working in today’s technical workplace.

- 14 hours of online instruction
- Each lesson includes modules on reading, writing, listening, and speaking skills
- Helps to bridge the gap between academia and industry
- Reoccurring characters bring the lessons to life as they interact with each other and the learner through animated business scenarios

Launching June 2020
Who Will Benefit from this Program?

This program is ideal for:
- Working professionals
- Students that are getting ready to enter a technical field

How much English does a learner need to know before starting this program?
- Learners who have high English fluency gained in job experience, or
- A strong score on a standardized proficiency test
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Student and Academic Education Programs

Burt Dicht, Director Student and Academic Education Programs
b.dicht@ieee.org
Student and Academic Education: Staff Structure

- **Burt Dicht**
  Director, Student and Academic Education Programs

- **Nancy Ostin**
  Program Director
  Eta Kappa Nu

- **Stacey Bersani**
  Program Manager
  Eta Kappa Nu

- **Alice Balashova**
  Admin Asst
  (Chapter Relations & Ops)

- **Sadiq Mitchell**
  Education Program Manager

- **Regina Samson**
  Accreditation Program Manager

- **Dawna Schultz**
  Sr. STEM Education Outreach Program Mgr

- **Ray Alcantara**
  EPICS in IEEE Program Manager

- **Lynn Bowlby**
  Project Specialist
  Educational Outreach
Pre-University Education Committee

Burt Dicht, Director Student and Academic Education Programs
b.dicht@ieee.org

Lorena Garcia, 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
TryEngineering Brand

Power by IEEE

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

A pre-university engineering education portal for educators and students

TryEngineering Summer Institute

A teacher-guided online learning platform that matches 3rd to 5th graders with mentors from industry
Engineering Lesson Plan Toolkit (New)

Content focused on how to organize events and assist volunteers in delivering an effective teacher STEM training activity locally

- “How-to” Slide Deck
- An overview video on how to implement a TryEngineering Lesson Plan
- Detailed instruction: on how to implement the lessons plans.

Currently Available:
- Toxic Popcorn
- Wind Energy
- Tall Tower
- Robot Arm
- Electric Dough
- Ten additional lesson plans in June

Each lesson plan includes:
- Video that focuses on the design challenge and possible solutions
- PowerPoint to use with students when implementing the lesson plan

https://tryengineering.org/engineering-lesson-plan-toolkit/
Objectives

• Develop a centralized portal that is an extension of the current TryEngineering.org to provide volunteers access to opportunities that enable them to plan and execute STEM based activities

• The STEM portal leverages the reach of IEEE’s global communities and volunteers in order to engage as many students as possible in pre-university STEM activities.

Features

• Centralized Searchable database of current STEM and pre-university programs (developed by IEEE’s global communities and Partners)

• Resources to support current or new STEM programs

• Metrics and Impact mechanism

• Awards and Recognition program

• Development grants (coming later)

Target Pilot Launch – Sept 2020
Full Launch – January 2021

We need your Pre-University STEM Programs!
During this unprecedented time, with students home from school and many parents juggling working from home, teaching their children and caregiving, TryEngineering has developed a list of STEM eLearning resources to support you.
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

▸ Develop a pre-university STEM program for students/educators using the Lesson Plan Toolkit

▸ Submit your pre-university STEM program for use in the STEM Portal’s library
University Resources Committee

Burt Dicht, Director Student and Academic Education Programs
b.dicht@ieee.org

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
Accreditation

• Oversee the accreditation of 800+ engineering, computing and technology programs in IEEE’s fields of interest

• More than 400 IEEE volunteers (accreditation committees and program evaluators) are involved with accreditation activities

IEEE and the Value of Accreditation

• IEEE has a voice in determining the threshold set of knowledge, skills and abilities needed for successful entry into Engineering, Computing and Technology fields

• IEEE ensures that a steady flow of professionals (and IEEE members) with the technical knowledge and skills are ready to practice
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
Faculty Career Development

Scope:
• Virtual mini-conferences and workshops, featuring recognized experts, focused on providing skills and guidance that can be put into practice immediately

Objective:
• Provide faculty with a portfolio of resources necessary to enhance their professional development and career choices

2020 Plans
• Webinar series based on Research Driven Instructional Design workshop held at FIE conference
• Complemented with faculty engagement on Engineering Faculty of Tomorrow Collabratec
• Assisting YPs with and Academic Career Path survey
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
  – Speakers for “Engineering Spotlight” Series

▸ 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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IEEE - Eta Kappa Nu

Edward Rezek
IEEE-HKN President
e.rezek@ieee.org

Nancy Ostin
IEEE-HKN Director
n.ostin@ieee.org
What is IEEE-HKN?

QUICK FACTS
The Honor Society of IEEE
Founded in 1904
Merged with IEEE in 2010
265 Chapters Worldwide
Over 200,000 Lifetime Members
Members Perform Over 100,000 Hours of Service Every Year
The goal is to develop the complete technical professional

Guiding Principles: Scholarship, Character, Attitude
About Our Members

HKN is a lifetime designation.

Members are invited to join by the chapter based on established criteria: They represent the top scholars within their discipline.

They are 3rd and 4th year (juniors and seniors) and Graduate students on track to complete Engineering Degrees.

The majority of HKN students said they would like to stay engaged after they graduate.

All HKN students are IEEE Student Members.

80 percent of new members are new to IEEE.

Our students represent opportunities for growing your membership and for retention. They could be new volunteers for your section.

3,000 Students Are Inducted into IEEE-HKN Every Year
IEEE-HKN and Your Section

Invite members to your section meetings.

Include HKN students in your Section training, competitions, and community service and other events.

Encourage cooperation between HKN Chapters and IEEE Student Branches.

Offer the same support to the HKN Chapter as you do the Student Branches.

Introduce HKN Students to IEEE programs, benefits and scholarships.

Find the IEEE-HKN Chapters in Your Section on the IEEE Roster Tool: https://rosters.ieee.org/home.html
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Section Education Outreach Committee

Supavadee Aramvith, SEOC Chair
Section Education Outreach Committee

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.

Scope
The SEOC will have the lead responsibility within EAB for building and maintaining strong working relationships with IEEE Regions, Sections, and Chapters in order to work with these organizational units as partners to promote EAB’s products and services.
2020 Section Education Outreach Committee

Supavade Aramvith
SEOC Chair (Region 10)

Region 1
Vincent Socci

Region 2
Stephen Bonk

Region 3
Mary Ellen Randall

Region 4
Anu Gokhale

Region 5
David Pierce

Region 6
Mostafa Mortezaie

Region 7
Rossitza Marinova

Region 8
Stamatis Dragoumanos

Region 9
Colin Gopaul

Region 10
Lance Fung

MGA Rep (R7-10)
Teofilo Ramos

MGA Rep (R1-6)
Babak Dastgheib-Behesti

Region 7, Past EAB VP
Witold Kinsner
Governance and Project Management: Staff Structure
Resources
Recent Achievements

- Launched IEEE Collabratec Community of Practice for Educational Activities
  - Aligns with EA’s overall social media plan

- Developed EA Programs page on ea.ieee.org with details on EA’s programs, links to flyers, slides, etc.

- Orientation for Sections and Chapters Education Volunteers

- Integration into EA Insight newsletter

- Mailing lists for REAC communications to those supporting education at the local IEEE levels
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
- Contact details
- ... and much more!
- Access using your IEEE account
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://ieee-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

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
Resources

- Educational Activities Volunteer Website
  - https://ea.ieee.org/

- 2020 Educational Activities Board Member List

- 2020 Educational Activities Committee Rosters
  - https://rosters.ieee.org/home.html

- 2020 Educational Activities Staff Listing
  - https://ea.ieee.org/contacts/educational-activities-staff-contacts
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IEEE Educational Activities Awards Program

Sohaib Sheikh, EAB Awards & Recognition Committee Chair
IEEE Educational Activities Board (EAB) Awards recognize and honor major contributions to engineering and technical education
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IEEE Educational Activities in Canada

IEEE Region 7 (Canada, 21 sections)

Rossitza Marinova
R7 EAC Chair

Murray MacDonald
R7 Pre-University Education Chair
TISP => Pre-University Education

- TISP engaged with local teachers (the teaching experts) to empower teachers to provide STEM programs
- Enables IEEE volunteers to share their technical expertise and demonstrate the application of engineering concepts to support STEM teaching
- Activities in Region 7 have extended locally into classrooms, science fairs, design competitions, and other activities.
  - including range of pre-university education
R7 – Committee & Communications

- Committee of active section volunteers
- Monthly conference call to share updates/news
- Distribution list of other volunteers
- Courier newsletter – editor Dirk Werle
  - moving to blog format on revised website
- TISP Canada website
  - needs maintenance (rebooting)
Pre-University Education - Examples

- Class room visits in numerous sections
  - leading an activity
- Presentation and activity at colleges of ed.
- Judging and awards at local science fairs
- Exhibiting at Science Teachers’ Association of Ontario (STAO)
- Design challenges and competitions
- Math Kangaroo (nation-wide)
IEEE Region 7 Educational Activities Report

▸ Region 7 Educational Activities Committee members’ meetings
  - Supporting sectional educational activities – financially, sharing experiences, presentations, information

▸ CCECE Computing and Engineering Education Track at CCECE 2019 & 2020
  - Invited speaker session attracted papers on education
  - Panel on Education Inclusion discussed the future of education
  - Pre-university tutorial for IEEE volunteers

▸ R7 Students Congress Presentation (May 5, 2019)
  - To support student chapters for their EA

▸ Industry-Student-YP-WIE-IEEE Networking/Mixer (Oct 18, 2019, Halifax)
  - EAC R7 members gave three talks
    - Witold Kinsner: Do we need a new model for education?
    - Murray MacDonald: Educational Activities Outreach with IEEE
    - Bob Gill: I am teaching! Are you learning?
  - Panel Discussion: Evolving Needs of the Tech Ecosystem
  - EAC R7 sponsored the event
Examples of Education Activities:

- Short Professional Courses for engineering students and professionals
- Bridge Building Challenge on International Day of Women and Girls in Science at an elementary School
- Judges at Peel Skills Challenge (Peel District School Board)
- New Business “IEEE TryEngineering- Center of Applied Engineering & Technology- Malton”
Examples of Education Activities: Vancouver

- 5 Cyber-Security symposiums - funded by NSERC and co-sponsored by IEEE Vancouver Section. Each event had ~100 attendees and last event has 115 attendees.

- Power System Analysis workshop - Section made ~$1500

- Linux Workshops - Free - Installation and creating a Multi-boot system.

- Poster competition during the networking time-slot at AGM. It's been a hit and some kids were interviewed by Industry during this event.

- TELUS CTO and VP Broadband with a flurry of activities coming soon.

- Schweitzer Engineering Lab workshop was free with ~60 attendees.
Examples of Other Education Activities

- Winnipeg
  - Amateur Radio Theory, Operations, and Practice for Basic Qualifications
  - Verna Kirkness Science and Engineering Program for Indigenous High-School Students

- London
  - Very active in pre-university education
Examples of Other Education Activities

- Northern Alberta
  - Providing scholarship for students completing their Capstone projects in IEEE areas in all universities and colleges in Northern Alberta. The section wants to support exceptional projects aligned with one or more of various fields of Electrical and Computer Engineering.

- Southern Alberta
  - The IAS/PES chapter hosted 3 evening technical seminars
  - The CAS/SSC chapter hosted 2 lunch and learn seminars
  - The computer chapter hosted its BIDMA conference in April
  - The Control and instrumentation chapter hosted 5 evening technical seminars during the year.
  - In addition, the computer chapter hosted its annual Google ignite workshop to introduce high school students to computer programming.
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IEEE R4

Anu A. Gokhale
Educational Activities Chair

Distinguished Professor, Illinois State University
Home Phone: (309) 589-0945
Email: aagokhale@IllinoisState.edu
IEEE R4 EA Goals for 2020

- Increased visibility
  - Ensure that IEEE banner or some publicity material is displayed at every IEEE sponsored event.

- Greater engagement of members
  - One size does not fit all. Therefore, have a variety of activities.

- Expanding service to local communities
  - Give ideas & make resources (including publicity materials) available for members to serve in their local communities.
IEEE R4 EA Best Practices

- Increased visibility
- Greater engagement of members
- Expanding service to local communities

**Pre-College**
- Hands-on workshops
  - Raspberry Pis, Arduinos, etc. taught by IEEE members at local schools / libraries
- IEEE Table
  - At non-IEEE events; for example, Argonne Lab anniversary celebration
- TISP workshops
  - On topics that cross disciplines, for example “computational thinking”

**Working professionals (provide continuing education)**
- Training for professional development and building in-demand skills
  - CEUs are provided for attendees (one PDH per hour of instruction)
  - ILN (IEEE Learning Network) makes for great Section “virtual” meetings
    - ILN seminar combined with an SME to answer questions or discuss further content
  - Significant fee differential between members & non-members

**Annual F2F meeting of EA Section Chairs & EA Volunteers**
- F2F meetings are highly effective for building relationships and cultivating a sense of commitment to a shared mission
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
Questions, Comments

Send along to r.o.warnick@ieee.org following call.
Appendix
Governance and Administration: Committee Structure
Student and Academic Education: Committee Structure
IEEE Educational Activities | 2020 STRATEGY

Core Purpose
To develop and deliver educational products and services to our members, professionals, educators, and students that excite and inspire understanding of IEEE's fields of interest; support career preparation and professional enhancement, foster diversity, and ensure access to lifelong learning opportunities.

Core Values
- Commitment to quality and ethics: Ensuring high value to users
- Grounded in knowledge and expertise: Veting technical and educational excellence
- Inspirational to lifelong learners: Relevant learning in IEEE's fields of interest
- Maximizing impact: Make a difference at scale
- Collaboration: Leverage relationships and partnerships within IEEE and beyond to reach our goals
- Fiscal stewardship: Getting the most impact from our resources

Areas of Focus
- Member value
- Impact on the profession
- Resource for practitioners
- Service provider to all of IEEE
- Global relevance of our offerings with assured local quality
- Resource for pre-university educators
- Customer value
- Revenue generation to invest in impact

Core Users
- Members
- Practitioners (Young Professionals, Seasoned Professionals)
- Educators
- Students (kindergarten, primary to high school, colleges, universities, post-graduate)
- Retirees