IEEE Students and Young Professionals

Serving and Preparing our Next Generation of Leaders
IEEE Students
The IEEE Student Branch is the operating organizational unit of IEEE constituted by a minimum of twelve (12) IEEE student members

- **Goal**: Engage students in the mission, benefits, and opportunities of the IEEE

- **Sponsors activities and events** technical, professional, and humanitarian aspirations
  - Guest speakers
  - Paper contests
  - Local public imperatives

- **Fun, too!**
  - Social events to bring together students with faculty
  - PI Day
Student Development Through Volunteering

Through the Student Branch:

- Develop professional networks
- Enhance presentation skills in low risk environments
- Develop management skills, e.g., leading without authority
- Committee experience
  - Managing projects
  - Managing people

Volunteers

Volunteers are an essential part of the IEEE organization. IEEE members who volunteer their skills and time take pride in knowing that they play an important role in an organization dedicated to enhancing the quality of life for all.

Volunteering - IEEE Members Get Involved

Becoming an IEEE volunteer can be a gratifying and memorable experience. Whether your skills are suited for organizing conferences and meetings, financial reporting, communicating or maintaining websites, chances are your local Section or Society is in need of someone with your expertise.

Additional opportunities for involvement include standards development, fundraising, awards and educational activities and the development of new products and programs.

As an IEEE volunteer, you can take pride in participating in activities that interest you, while expanding your knowledge of the IEEE, gaining valuable management and leadership skills, and connecting with others in your profession.

How to Volunteer at the IEEE

Getting started:

- Connect with your local IEEE section and chapters
- Learn about the IEEE Educational Activities Board
- Get involved with the IEEE Standards Association
- Organize a conference
- Participate in a technical society or technical council
- Share and promote IEEE technology policies and professional
Student Activities

Portfolio

Technical Programs & Opportunities

- Technical chapters
- IEEE Xtreme contest
- Robotics contests
- Paper contests
- Project showcases
- Technical speakers
- IEEE Potentials
- Student member discounts
- Student Tracks at Conferences

 Volunteer Development

- Regional Student Congresses

Public Programs & Opportunities

- Humanitarian initiatives
- President’s Change the World competition
- Future Cities/E4C
- Awards & Recognition

Career Programs & Opportunities

- Job fairs
- ResumeLab
- Soft-skills seminars
- Professional Awareness Events S-PAC/S-PAVe
- Engineers Week
- Networking events
- Ethics competition
# Student Statistics - Region 7

As of 31 December 2013

<table>
<thead>
<tr>
<th>Description</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Student Branches</td>
<td>57</td>
</tr>
<tr>
<td>Undergraduate Student Membership</td>
<td>1,752</td>
</tr>
<tr>
<td>Graduate Student Membership</td>
<td>1,974</td>
</tr>
<tr>
<td>Total Student Membership</td>
<td>3,726</td>
</tr>
<tr>
<td>WIE Student Membership</td>
<td>307</td>
</tr>
<tr>
<td>WIE Affinity Groups</td>
<td>22</td>
</tr>
<tr>
<td>Activity Reports filed</td>
<td>15</td>
</tr>
</tbody>
</table>
Top 5 Student Branches by Membership counts

- Waterloo U -Stream A SB (172)
- Calgary Univ of SB (175)
- McGill Univ SB (225)
- Univ Of British Columbia SB (299)
- Toronto Univ Of SB (331)
Student Branch Manual

This manual contains best practices and resources to help student leaders run a successful Student Branch. It has a focus on student development, member benefits, a calendar of activities, et al. This audio version will have a downloadable PDF version by year end.

Competitions & Awards
IEEEExtreme is a global challenge in which teams of IEEE Student members compete in a 24-hour time span against each other to solve a set of programming problems.

**Grand Prize:**

All expense-paid trip to an IEEE conference of choice, anywhere around the world!

**IEEEExtreme 8.0: 18 October 2014**

[www.ieee.org/xtreme](http://www.ieee.org/xtreme)
2013 Competition Stats
• 1,839 teams—28% growth YoY
  • 4,900 students; 764 proctors; 50 vols/staff
• 61 countries represented
• 497 universities/SB’s with team(s)

Special Thanks to the IEEEExtreme 7.0 Sponsors
IEEE Computer Society, IEEE.tv, Lenovo, Acadox; Membership Development; University Partnership Program; Student Activities Committee; IEEE-HKN
Students who identify a real-world problem and apply engineering, computing, science and leadership skills to solve it!

- Students display their ingenuity and enthusiasm for engineering and technology recognized by prestigious IEEE members around the globe.

**Prize - US $10,000 towards the project**
Student Activities Awards

http://www.ieee.org/membership_services/membership/students/awards/student_branch_awards.html

- Student Enterprise Award
- Larry K. Wilson Regional Student Activities Award
- IEEE Regional Exemplary Student Branch Award
- IEEE Outstanding Branch Counselor and Advisor Award Recognition Program
- The Darrel Chong Student Activity Award

Nominations begin on or about 15 November and close 1 February annually.
Benefits of Membership
Student Benefits

Global Benefits Finder

Uncover IEEE member benefits that are most relevant to you. Use the Global Benefits finder below to select your current career phase and country, then select "Go". Your results page will render a list of key IEEE member benefits that can help you accelerate your career plans and help you grow as a technology professional.

Global Benefits Finder:

- Undergraduate Student
- Young Professional
- Academic/Researcher
- Practitioner
- Business/Leadership
- Unemployed
- Retired/Life Member

by Career Phase
by Country

- Find upcoming conferences;
- Learn more about individual benefits;

Resources for...

- Authors and speakers
- Conference organizers
- Employers and job seekers
- Educators
- Librarians and institutions
- Media and journalists
- Students
- Volunteers

Join IEEE or a society

As a member of IEEE, you’ll receive access to select content, product discounts, and more.

- Review all member benefits
- Join
- Renew

Not ready to join but need access to online services like IEEE Shop?

Learn about a Web Account
New member benefit launched 31 January 2014
Create resumes and cover letters using customized templates with built-in training and tool tips

Build video resumes and work portfolios
Take mock interviews with 900+ practice interview questions
Over 4000+ users (as of July 2014)
IEEE Digital Potentials

-Starting Fall 2014, IEEE Potentials will transition into a digital delivery format which benefits IEEE Members, primarily IEEE Students:
  - Ease of accessibility
  - Mobile, Tablet friendly
  - Fast and efficient method of delivery

-Please visit [www.ieee.org/potentials](http://www.ieee.org/potentials) and IEEE Potentials on Facebook to learn of future updates and changes

-For article submission and idea generation, email [potentials@ieee.org](mailto:potentials@ieee.org)
**IEEE.tv** is an internet television network that produces and delivers special-interest programming about technology and engineering, for the benefit of IEEE's members and the public.

- **Goal:** Introduce video as a member benefit and public relations opportunity
  - “Made possible by the members of IEEE”
- Add dimension to the ‘IEEE experience’
- IEEE.tv Member Basic is an exclusive benefit of IEEE membership
- Over 50 programs now available
- New IEEE.tv Student Channel
Graduating Student Transition and Elevation Program

- Sponsored by IEEE Young Professionals allows students to network with other young professionals
- Linkage to another local entity other than Student Branch/Chapter

Student Graduation Kits

- Mailed to every graduating student
- Recommends benefits for a beginning professional – Job Site, ResumeLab, MentorCentre, IEEE memberNet
- Overview of members-only discounts
- Incentives to update mailing address info

Your Career

Student, Member, Sr. Member, Fellow
Professional Home After Graduation

Connectivity via the IEEE Network

- IEEE Young Professionals
- Local IEEE Section & Technical Chapters
- IEEE Societies

Beginning Career Benefits

- IEEE memberNet directory
- IEEE Job Site
- IEEE MentorCentre
- IEEE ResumeLab
- Many more… www.ieee.org/myieee

Your Career

Student  |  Member  |  Sr. Member  |  Fellow

IEEE
Advancing Technology for Humanity
Bringing it all together... myIEEE

Personalized, Customizable, Portable

- Library of myIEEE modules/gadgets
- Layout selection, 2 or 3 columns, with drag-and-drop gadget placement
- RSS tools to import feeds from IEEE or other content sources
- Choice of several technology-based themes for the interface

IEEE memberNet

- Only directory of all 400,000 IEEE members
- Enables online, peer-to-peer networking with technical expertise worldwide
The Student Training Volunteer Webinar Program is focused on building awareness of what is offered to students and ways students can get involved in IEEE activities and understand available.

Webinars:
http://www.ieee.org/membership_services/membership/students/student_webinars.html
IEEE Young Professionals is an international community of enthusiastic, dynamic, and innovative members and volunteers. IEEE is committed to helping young professionals evaluate their career goals, polish their professional image, and create the building blocks of a lifelong and diverse professional network.

- [LinkedIn](https://www.linkedin.com)
- [Facebook](https://www.facebook.com)
- Twitter: @IEEEYP
- Chair: Timothy Wong
timothy.wong@ieee.org
Young Professionals Program Portfolio

Technical Programs & Opportunities

- Webinars
- YP Receptions at Society Conferences
- YP track at conferences
- Member discounts

Public Programs & Opportunities

- Society competitions e.g. Electron Devices Society
- Humanitarian initiatives e.g. GHTC
- GOLDRush Blog

Volunteer Development

- Regional YP Congresses
- YP Summit

Career Programs & Opportunities

- Webinars
- IEEE Job Site
- ResumeLab
- MentorCentre
- Student Transition and Elevation Partnership (STEP)
Student Transition and Elevation Program (STEP) www.ieee.org/step

- STEP was created as a tool to help improve member retention as student members are elevated from student level to higher grade member.

- Engagement and outreach opportunity facilitates the transition from Student Member to Young Professional.

- Introduces the opportunities and benefits of IEEE membership during the onset of a career.
  
  - Meet local young professionals.

  - Introduction to the greater IEEE network through the YP Affinity Group in the local section.

  - Recognition for their accomplishments while being welcomed into the professional IEEE community.

  - Increased awareness of IEEE benefits for young professionals.

  - Career enhancement, networking, and professional development activities at the STEP event.
Career Resources

- Find a job @ IEEE Job Site careers.ieee.org
- Create your resume @ IEEE Resume Lab www.ieee.org/resumelab
- Find a mentor @ IEEE MentorCentre www.ieee.org/mentoring

Knowledge resources
Career Guidance @ The Institute http://theinstitute.ieee.org/career-and-education
Completely re-designed for better usability
Adds additional resources for job seekers

Thousands of jobs from organizations around the world
Specific internships
IEEE MentorCentre is an online program which facilitates the matching of IEEE members for the purpose of establishing a mentoring partnership.
Available to members above student grade

Get started by going to www.ieee.org/mentoring

Mentors:
  – Click on the register as a mentor link
  – Fill out professional profile and upload resume
  – Once approved, will be visible for prospective mentees to request

Mentees:
  – Click on the “Find a Mentor” link or register
Webinars

The YP webinar program is

- a member benefit
- engagement for the viewers
- an outreach opportunity

that provides IEEE YP members with live and/or on-demand sessions to develop skills covering a variety of categories, including professional, humanitarian, technical, life skills, and volunteer tracks.

http://www.ieee.org/membership_services/membership/gold/gold_webinars_index.html
Recent Webinars

Technology in Humanitarian Frameworks

Electro-magnetic Compatibility Webinar by Joanna Hill

Best of Consumer Electronics Show 2014 hosted by Carsten Dolar

Leadership Excellence by Corey Atkinson

Case Interview Success by Tom Rochtus

Social Media and the Job Hunt by Elizabeth Lions

Careers In International Development by Barrett Prinz, Director of Global HR and Legal, One Acre Fund

How to Write a Technical Paper by Dr. Jun Fan
IEEE Headquarters Support
We are MGA Young Professionals

Amat victōria cūram- Victory Loves Preparation

We are committed to providing a WOW experience for our IEEE members and volunteers

We are...

- Lisa Delventhal- Program Manager
- Shareyna Scott – Student Branch Development Specialist
- Christine Eldridge- Administrative Assistant
- Parshva Bavishi- Product Specialist
- Mark Pelham – Program Coordinator
Connect Globally...

Global Student Facebook Page:  
https://www.facebook.com/IEEESTUDENTST  

GoldRush Facebook Page:  

IEEE Students:  
www.ieee.org/students  

IEEE Young Professionals  
www.ieee.org/yp  

To connect with staff, please email student-services@ieee.org or young-professionals@ieee.org.
Appendix
IEEE Day
7 October 2014

Submit Your Event:

http://www.ieeeday.org/local-events/submit-your-event/

Questions??

Email the 2014 IEEE Day Team

ieeday2014@ieee.org
What is IEEE- Eta Kappa Nu? (IEEE-HKN)

The Honor Society of IEEE

Recognizes scholastic and professional achievements of individuals

IEEE-HKN is an early indicator of success, motivation, and leadership ability

Based on the highest ideals of our profession: hard work, sound judgment, service to others, and ethics

Invitation criteria includes: Scholarship, Character, and Attitude
There are several organizational models for success. Any model can be customized to meet the needs of your Section and Student Branch

- IEEE-HKN Chapters and IEEE Student Branches operate independently
- IEEE-HKN Chapters and IEEE Student Branches collaborate occasionally on projects
- IEEE-HKN Chapters and IEEE Student Branches work side-by-side, collaborating on several shared projects and goals
IEEE-HKN is an Enhancement to your Current Student Program

- New Student Members
- Increased Student Retention
- Volunteers
- Develop future leaders
- Commitment to serving others

Lambda Omega
National University of Singapore
IEEE-HKN Chapters Add Value by Providing Service to Others

– Tutoring
– Peer mentoring
– Ambassadors
– Pre-University Outreach
– Community Service

IEEE-HKN Chapters Add Prestige
Encourage the highest ideals and principles of our profession

IEEE-HKN Chapters Add Visibility
– Represent their university with integrity, quality and accomplishments

Gamma Theta Chapter
Missouri Univ. of Science & Technology
How the Individual Will Benefit

- **Recognition**
  - IEEE-HKN induction is an acknowledgement of accomplishment

- **Life-time Designation**
  - Once inducted, you retain the designation for life

- **Professional Development**
  - Unique opportunities to develop leadership skills
  - Networking with peers and professionals

- **Opportunity to Contribute to THE BRIDGE**
  - THE BRIDGE, IEEE-HKN’s online magazine, provides an opportunity for students and alumni to contribute
    - The November 2014 issue will feature 4 student research papers
    - Distribution to more than 112,000 readers
To find out more about IEEE-HKN

- Chapter Inquiry Form:
- Visit our website: www.hkn.org
  - Email: info@hkn.org
  - Facebook: www.facebook.com/IEEE.HKN
  - LinkedIn: “IEEE-Eta Kappa Nu” group

- Visit our Virtual Campus for webinars, training, resources, alumni reconnection and more
EPICS in IEEE – A Social Innovation and Educational Program

Engineering Projects in Community Service (EPICS) in IEEE

Program that organizes university and high-school students to work on engineering-related projects with local area community organizations.

Goals

– To provide grants for community focused projects lead by IEEE members, student branch members/student members, YP groups, WIE Affinity Groups
– To develop and deliver training on human centered design and professional skills

Objectives

– Promote and demonstrate an ethos of service throughout the global engineering profession
– Raise students’ awareness of engineering-related careers and encourage university students to practice professional skills

For more information:

www.ieee.org/go/epics-high
epics-high@ieee.org
IEEE SIGHT is a global community of locally-focused groups of volunteers interested in using technology to solve community problems.

SIGHT’s mission is to inspire, enable, and connect IEEE members and others worldwide to create positive social impact at the local level.

Create a SIGHT group with 6 IEEE members at the Section or Student Branch level.

More info at www.ieeesight.org
https://www.facebook.com/groups/ieeesight/

Contact Holly Schneider Brown at h.s.brown@ieee.org
Volunteer Leadership Training Program

- Designed to accelerate volunteers' knowledge of IEEE’s organization, products & services, and resources and tools available to them

- Helps Volunteers understand their role within their geographic units and the larger IEEE

- Volunteers gain practical leadership experience and skills to apply in their professional environment

- Set the stage for an on-going broader program to develop and prepare future IEEE leaders

Program’s expected outcome is to increase volunteers’ perception of IEEE as a valuable resource to support them in their volunteer and professional careers
Program Overview

- Ran successful Pilot in 2013
  - 49 applicants
  - 21 participants selected

- MGA Board approved 2014 implementation
  - 118 applicants
  - 35 participants selected
  - Criteria: two or more years as Volunteer, Graduate Member or higher

- Six-month long program with weekly live and/or recorded sessions

- Formal Program Content
  - Track 1 - IEEE and its organizational units and AGs
  - Track 2 – Leadership skills

- Project Assignment, session quizzes and surveys
IEEE Center for Leadership Excellence CLE

- ‘One-stop Shop’
- Targeted to all (Members and Volunteers)
- Online, Self-paced
- Combination of structured modules, webinars, podcasts
- On Demand content varies in length
- Access via IEEE Account
- Offers a jump-start for your new Volunteer role
When should Members and Volunteers use CLE?

- Interested in exploring a new Volunteer role
- Learn about new position
  - Helps decide if you want to run for a position
- Get new ideas to help support and make your role easier
- Broaden your knowledge of new skills
- Provide training to new officers in your unit
Contacts & Resources

 Volunteer Leadership Training Program
  – Loretta Arellano, Ad Hoc Committee Chair
    Email: l.arellano@ieee.org
  – Maria Schneider, Program Manager
    Email: m.t.schneider@ieee.org
  Website: www.facebook.com/ieee.volt

 IEEE Center for Leadership Excellence
  – John Meredith, 2014 IEEE CLE Committee Chair
    Email: j.meredith@ieee.org
  Website: www.ieee.org/cle
2014: Celebrating 35 Years of Student Professional Conferences within IEEE Regions 1-6

SPAC has a national speakers list who speak to students throughout the U.S. about Career and Professional Development Topics

• August 2014: Launch of new Program: SPAx

• SPAx is a more flexible program for students to engage, explore and experience

• SPAx Promotional Video:

http://youtu.be/oOYqf7jyF

eE

Guru Madhavan, bioengineer@ieee.org
Scott Grayson, s.grayson@ieee.org