Region 1
Student Activities

Organizing, structuring, running and reporting your Section’s student activities

Charles Rubenstein, Region 1 Student Activities Coordinator
<c.rubenstein@ieee.org>
Students: our future and our legacy

• First, and foremost you need a **Section Student Activities Coordinator**!
• Second, understand your Section Student Branch OU’s needs and wants!
• Third, understand what your Section can undertake, staff, and deliver
  • Volunteer presentations
  • Financial assistance: S-PACs, grants, awards, etc.
• There is a vast array of Activities/Programs your Section can undertake for and by student members in the local university Student Branches, Student Branch Chapters and IEEE- HKN Chapters
  • Technical programs during club hours
  • Job Fairs and Career Nights
  • Joint with the Section, Chapters or Affinity Groups
  • Tailored and suited for your Section
• The most successful Sections plan a repertoire of all of the above
• If uncertain, seek help from above – your Region Student Activities Coordinator and Regional Student Representative are there to help!
2018 Region 1
Student Activities Committee

Charles Rubenstein, Chair (RSAC)  <c.rubenstein@ieee.org>
Kayla Ho, Regional Student Representative (RSR)  
<kayla.ho.us@ieee.org>

• Bruce Hecht, S-PAC Coordinator  <bruce.hecht@ieee.org>
• Area SAC Coordinators
  • Area Chairs or their representative
• Section SAC Coordinators
  • Section Chairs or their representative
• Student Branch Chairs & Student Branch Counselors
• Student Branch Chapter Chairs & SB Chapter Advisors
• IEEE-HKN Student Chapter Chairs

Ex-Officio Members:  GOLD, WIE, PACE, MD, HTC Rep, Pre-university
MGA SAC: Vision and Mission

IEEE SAC Vision
- To deliver a common, high-quality IEEE Student member experience globally, for lifelong, professional success through IEEE membership.

IEEE SAC Mission
- SAC will be recognized as the global platform to inspire, enable, develop & support student as the future leaders of our profession.

IEEE SAC Website
https://www.ieee.org/membership_services/membership/students/index.html
Region 1 SAC: Vision and Mission

IEEE Region 1 SAC Vision
• To support the academic, professional and leadership activities for IEEE Student Members in the Northeastern US.

IEEE Region 1 SAC Mission
• To encourage the professional development of IEEE Student Members and provide a leadership experience through IEEE membership, leadership and student activities.
IEEE in Facts & Numbers (2015 Data)

- More than 421,000 members in over 180 countries, (54% outside the US)
- 71,580 IEEE Student Members
- 42,870 Graduate Student Members
  - 12,982 Society Affiliates
  - 335 IEEE Sections; 56 subsections and 2,274 IEEE Section Chapters
  - 454 Affinity Groups (AICN, WIE, YP)
- 2,845 Student Branches in 80 countries
- 1,344 Student Branch Chapters
- 438 Student Branch Affinity Groups
  - 39 societies and 7 technical councils
  - > 2 million documents in the IEEE Xplore Database: 130 transactions, journals and magazines
  - Sponsors/co-sponsors over 1800 conferences each year
  - IEEE Standards Association: 7,000 individuals in 100 countries and over 200 corporate members in 22 countries
IEEE Worldwide Membership

TOTAL / VOTING MEMBERSHIP* = 417,429

R10 – 125,707 or 30.1%
R9 – 8,391 or 4.4%
R8 – 76,168 or 18.2%
R7 – 16,211 or 3.9%

R1 to R6 (IEEE-USA) 180,952 or 43.3%

Reflecting the global nature of IEEE, R10 and R8 are now the two largest IEEE Regions

* 2017 Member Data

February, 2018
IEEE Student Branches & OUs

Region 6 in the World

Region 6, Southwest Area

Univ. of California at San Diego IEEE Student Branch

San Diego Section
Region 6, Southwest Area

Note: Not drawn to scale and boundaries only approximate
MGA’s Geographic Unit Structure

- Technical Activities Board
- Divisions
  - IEEE Societies & Technical Councils
- Member & Geographic Activities Board
- Regions
  - Areas
- Section
  - Chapters
  - Affinity Groups
    - Geographic Councils
      - Council SubUnits
    - Sub-Sections
    - Student Branches
      - SB Chapters
      - IEEE-HKN Chapters
      - SB Affinity Groups
- Parent Committees - WIE, YPs, LMC, Consultants Network
2018 SAC Goals for MGA

1. SAC focus: three year plan to strengthen interaction and connection amongst and between Student Branches and parent Sections

2. Leverage probations/dissolutions to scrub branch rosters and revitalize units

3. Student Digital Presence, Website & Branding
   - 2017 Student Membership: 120,095 (+2.4% YoY)
   - Student Awards *(July Announcements)*
   - Watch for the impact of the *General Data Protection Regulation* (*GDPR*) on IEEE SAC, etc.
2018 R1 SAC Goals: Section/SB

1. SAC focus: three year plan to strengthen interaction and connection amongst and between Student Branches and parent Sections

2. We need to update our Student Branch records – been trying to for last TWO years – not very successful ...

MGA Solution: Link SB funding to the Section so the Branches need to be in touch with the Section Student Activities Coordinator!

Next slides

* Student Branch Update
* IEEE-HKN Student chapters Update
* Student Branch Reporting
Region 1 Student Branch Statistics

• 96 Student Branches in Region 1

at least one Student Branch in each of our 22 Sections

38!!! Student Branches in Trouble Feb 2018

at least one in each of 14 of our sections:
  • “Zero” Student Members on Record: 10
  • >0 but 5 or fewer Student Members on Record: 18
  • >5 but 10 or fewer Student Members on Record: 10

• 42 IEEE-HKN Student Chapters in Region 1

at least one HKN Chapter in 20 of our 22 Sections

33 Active IEEE-HKN Student Chapters

9!!! Inactive IEEE-HKN Student Chapters

Spreadsheets Available – will be posted shortly
Leadership Reporting: NOW!!!

https://officers.vtools.ieee.org/

MANAGE OFFICERS

Instructions
Please make changes for the officer positions for the selected organizational unit below.
(show more)

Officer Positions

<table>
<thead>
<tr>
<th>Position Title</th>
<th>Current and Newly Elected Volunteers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Daniel Creasy</td>
</tr>
<tr>
<td>Counselor</td>
<td>Dejan Raskovic</td>
</tr>
</tbody>
</table>
Student Branch reporting: by November 1

Please use your web account to sign in.
Note: Please ensure that you use your IEEE member web account to log in. If you do not recall your web account information, or aren’t sure you have one, you may go to: http://www.ieee.org/web/accounts to recover your password or establish a new account.

https://sbr.vtools.ieee.org/
2018 R1 SAC Goals: Website

IEEE Region 1 SAC Websites

http://ewh.ieee.org/reg/1/sac/
http://sites.ieee.org/r1-sac/

Both in dire need of revision, updating and coordination...
## Potential 2018-2019 R1 SAC Strategic Objectives

<table>
<thead>
<tr>
<th>Areas</th>
<th>Strategic Objectives</th>
</tr>
</thead>
</table>
| Leadership and Membership | ➢ Develop an image and positioning of the RSAC Team.  
➤ Generate sustainable growth in membership and implement an incentive program to revitalize the student branches, chapters, IEEE-HKN and AG in the region (Road Show Program?).  
➤ Develop financial autonomy, and monitoring the delivery of rebates via Sections. |
| Professional Development  | ➢ Promote participation and organization of activities for professional development in the Student Branches.  
➤ Train new IEEE Student and Faculty volunteers.  
➤ Promote the identification of Regional Student Conference (StuCon) venues out 2-3 years.                                                   |
| Awards and Competition    | ➢ Encourage the participation in MGA awards and competition by the student members.  
➤ Monitor and encourage the sending of Student Branches reports and updates to officers before the dates fixed by the IEEE.  
➤ Encourage links with other Committees Activities in the Region. |
Region 1 Student Activities

• IEEEExtreme – 20 October 2018

• S-PACs — if interested in having one, contact
  Bruce Hecht – SPAC Coordinator – <bruce.hecht@analog.com>

• STEP (Graduation Reception) – if interested in having one, contact
  Lorenzo LoMonte – YP Coordinator LoMonte@telephonics.com

• MTT Conference
  • Details – Contact Soon Wan <GWan@vicr.com>
2018 R1 Student Conference - StuCon
Friday-Saturday, March 23-24, 2018 @ NYIT, Old Westbury

• Students from Region 1 are encouraged to participate and compete in*:
  • MicroMouse Competition
  • Undergraduate Student Paper Contest
  • Ethics Competition
  • T-shirt Competition

• Friday Evening Hackathon*!

• Saturday Workshops*:
  • MicroMouse Design
  • Drones

• Please find registration and details for competitions, rules and prizes at:

   https://meetings.vtools.ieee.org/m/49075

*Note: Some events are limited to # of entrees per school

Proposals for StuCon 2019 and beyond – always welcome!
MGA Student Branch
Awards & Recognition

Awards all due February 1, 2019

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

- The student most responsible for a worthy accomplishment may be nominated by a Branch Counselor, Section Chair, Section SAC, or other IEEE volunteers.

- This Award consists of a customized award plaque, a digital certificate, and three years of complimentary membership in IEEE.

IEEE Regional Exemplary Student Branch Award

- Awards will be presented to those Student Branches that are found to be operated in a manner consistent with the goals of IEEE.

- Prize: A customized certificate attesting to the exemplary operation of the Student Branch.
IEEE Outstanding Branch Counselor and Branch Chapter Advisor Award

- Winners will be those individuals who, through their work as Counselors and Advisors, exemplify the Institute's commitment to the educational, personal, professional, and technical development of students in IEEE related fields of interest.

- Prize: Each winner will receive a US$150 cash award and a personalized certificate. The Student Branch that submits the nomination will receive a US$150 cash award.

Darrel Chong Student Activity Award

- The goal is to improve the quality of activities, and to foster knowledge sharing among students.

- Prize: The student branch will be presented with a digital certificate. Platinum winners will receive a plaque. A hard copy of the certificate will be provided upon request.
MGA & IEEE Student Activities

• IEEE Mobile Applications Development Contest
  http://IEEEMADC.org (April)

• IEEEExtreme Programming Contest
  (20 October 2018)

• IEEE Day
  http://www.ieeeday.org/ (October)

• IEEE-USA Congressional Visits Day
  https://ieeeusa.org/advocacy/cvd/ (8-9 May 2018)

• IEEE-USA Future Leaders Forum
<table>
<thead>
<tr>
<th>Category</th>
<th>Points</th>
<th>% (of final score)</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>User Interface (UI) Design:</strong></td>
<td>0-30</td>
<td>30%</td>
<td>design of the User Interface (elements such as colors, fonts, icons)</td>
</tr>
<tr>
<td><strong>User Experience (UX):</strong></td>
<td>0-20</td>
<td>20%</td>
<td>functionality, efficiency, logical structure</td>
</tr>
<tr>
<td><strong>Usefulness:</strong></td>
<td>0-20</td>
<td>20%</td>
<td>providing useful information to users (depending on the content)</td>
</tr>
<tr>
<td><strong>Availability:</strong></td>
<td>5-20</td>
<td>30%</td>
<td>the potential number/group of users;</td>
</tr>
</tbody>
</table>
IEEE EXTREME Programming Contest
20 October 2018
IEEE Day Celebrations

- [Link](http://www.ieeeday.org/)
- October 2018
- Photo Contest
- Print IEEE Day T-Shirt
IEEE-USA Activities

- For Graduate Students and Young Professionals

- **IEEE-USA 2018 CVD**
  (Congressional Visits Day)
  8-9 May 2018
  Washington, D.C.
  Register [https://ieeeusa.org/advocacy/cvd/](https://ieeeusa.org/advocacy/cvd/)

- **2018 Future Leaders Forum**
  26-28 July 2018  Austin, TX
WISE (Washington Internships for Students of Engineering) Intern Program
DUE 31 DECEMBER 2018

- Students spend a summer in Washington, DC learning how government officials make decisions on complex technological issues and how engineers can contribute to legislative and regulatory policy decisions.
- Students meet with leaders in Congress and the Administration, prominent nongovernmental organizations, and industry.
- Student prepare a paper on a current engineering related public policy issue.
- Stipend, local travel allowance and all housing costs covered.
Student Ethics Competition

www.ieee.org/about/ethics/competition.html

- Foster familiarity with the IEEE Code of Ethics and concepts
- Promote a model for discussing and analyzing ethical questions
- Learn about ethics in a “fun” context
- Provide experience in applying ethical concepts to hypothetical professional situations
- Supplement Regional/Sectional ethics programs
Student Branch & OU Programs

• Planning Meetings

• Technical & Professional Meetings
  • Check with local Section Chapters for participation in Section Technical Programs, Seminars and Workshops
  • Student Professional Awareness Conference/Experience
  • PACE Programs and Meetings
  • Career/Government Activities

• Regional Activities & Meetings
  • Region 1 Student Conference (23-25 March, NYIT – Old Westbury)
  • IEEE-USA Future Leaders Forum (26-28 July, Austin TX)
  • World Maker Faire (22-23 September, Hall of Science Queens, NY)
  • First Robotics, and other STEM Programs
Student Program Program Essential?

Make it **Fun** for your Officers

Make it **fUn** for your Volunteers

Make it **FUN** for your Members

*Retention and new members are sure to follow*
Student Branch Activities

- Student Professional Awareness (S-PACs)
- Pre-College Activities
- Awards & Recognition
- IEEE-HKN Inductions
- Employment and Career Activities
- Engineer’s Week Activities
- Government and ‘Grassroots’ Activities
- Professional Development Seminars (PDS)
- Technical Policy Support and Awareness
Student Professional Awareness Conferences (S-PAC)

Since 1979 –

Bringing students and GOLD members, together with local, national and international speakers for soft skill presentations in eight topic areas

➢ Co-Result: Student Membership Drive – Free/reduced admission for members!

For more information:

http://ieeeusa.org/volunteers/committees/spax/
S-PAC is …

More fun than going to Octoberfest!

S-PACs are student organized and managed so you can learn about:

- Conference planning and budgets
- How to contact speakers and industry
- Making presentations
- Finding funding resources

- Coordination: two or three S-PACs in a local area using the same speakers!
Student Professional Awareness Conference (S-PAC) Topics

- Career Development
- Professional Integrity
- Personal Skills
- Engineers & Public Policy
- Leadership in Professional Organizations
- The Practice of Innovation
- The Art of Communication
- Humanitarian Grand Challenges

(See backup slides...)

Eight Topic Areas!
It is an honor and pleasure to serve for a second two-year term as Region 1 Student Activities Coordinator

c.rubenstein@ieee.org
Technologists are uniquely positioned to embark on careers that are not only technical but also in various areas including business management, finance, economics, health, law, non-profit sector, consulting, journalism, public relations, entrepreneurship, government, and entertainment.

- Make the most of your career choices, career fairs and internships, and in informational and formal interviews
- Craft and customize your resume, curriculum vita, and cover letter for different career pathways
- Be better informed for your job search and negotiations
- Establish/maintain professional connections and mentors
- Prepare for professional registration, certifications, as well as advanced degrees
Ethics and engineering are fundamentally intertwined. Decisions made by engineers can have a profound impact on society.

- Practice ethics in a work environment that is constantly influenced by realities of globalization, financial motivation, and information overload
- Generate or customize a framework or set of principles for ethical conduct across differing conflicts and scenarios
- Balance professional integrity against corporate loyalty and other personal interests
Personal skills are as crucial as technical skills for a successful career in engineering.

- Develop skills that are necessary to effectively run a meeting and manage a committee.
- Apply the best practices for time management and priority setting of tasks
- Better manage your online persona and learn how it can assist or affect your career
- Plan your finances and investments
S-PAC Topics in

Engineers & Public Policy

Decision-makers are frequently looking to engineers for advice to improve public policies.

- How a legislation is drafted, introduced, and debated in Congress
- The major policy issues and contentions of current interest, and why you should care
- The role engineers play in informing and shaping public policy and how to get involved
S-PAC Topics in Leadership in Professional Organizations

Staying involved in a professional society adds value to your career. However, becoming a leader improves your professional net worth and profile.

- A professional society—such as IEEE—can help you in your professional and personal growth

- Staying involved with a professional organization is a value to you and your profession?
Innovation is a complex theoretical concept but can be learned by practice like any other art or science.

- Capitalize on your professional training and creativity to become an innovator
- Learn from the success and failure of others
- Incorporate elements and practices of other cultures and professions (such as arts, humanities, media, and sociology)
In a world of short attention spans, it is crucial to create and communicate a message that sticks.

- Master the art of storytelling
- Deliver better presentations
- Improve written communication
- Leverage social, traditional, and other media effectively
- Use these skills to help improve the public understanding of engineering and its impact
S-PAC Topics in Humanitarian Grand Challenges

Engineers play a major role in advancing technology for the benefit of humanity.

➢ Play a role in reducing poverty and hunger, improving infrastructure, and addressing environmental and economic challenges

➢ Become a global citizen and an ambassador for the engineering profession