

# Region 2 Report – Student Activities

**Drew Lowery, RSAC**  
**Will Howard, RSR**

*Region 2 Annual Meeting*  
*Hershey, PA, May 3-5 2019*

# Region 2 Report – Student Activities

- ▶ Overview of 2019 Region 2 Student Activities Conference
  - Location, statistics, and comparison to previous year
- ▶ Student Branch Counselors Feedback
- ▶ 2020 Student Activities Conference Announcement
- ▶ MGA Student Activities Committee
- ▶ Region 2 Student Activities – 2019 and Beyond

## Additional Information

- ▶ SAC 2019 Competitions
- ▶ Overview of 2018 Region 2 Student Activities Conference

# Region 2 Report – Student Activities

## 2019 Student Activities Conference

- ▶ 2019 Region 2 Student Activities Conference
  - West Virginia University – Morgantown, West Virginia, April 5-7, 2019
  - 286 students, 12 student branch counselors, 60 VIPs and volunteers
  - 358 total in attendance
- ▶ Number 1 and 2 reasons for attending SAC:
  - “To network with industry professionals”
  - “To compete against other schools.”
- ▶ Demographics
  - 68.2% (+2.2% from 2018) are juniors or above. 19.9% (+0.9% from 2018) female.
  - 87.4% (+2.4% from 2018) Electrical and/or Computer Engineering major.
  - Other majors are Computer Science, Mechanical Engineering, and Physics.

# Region 2 Report – Student Activities

## 2019 Student Activities Conference

### ► Schools Attended (28)

- Anne Arundel Community College
- Carnegie Mellon University
- Case Western Reserve University
- Cleveland State University
- DeVry Columbus
- Gannon University
- George Mason University
- Lafayette College
- Lehigh University
- Marshall University
- Merion Mercy Academy
- Montgomery College
- Ohio Northern University
- Ohio State University
- Ohio University

\***Did not attend last year**

Penn State  
Penn State Behrend

Penn State Harrisburg



# Region 2 Report – Student Activities

## 2019 Student Activities Conference

### IEEE Entities

IEEE Young Professionals	\$ 750
IEEE Life Members Committee	\$ 1,500
IEEE Ethics Committee (direct)	\$ 600

### IEEE Sections

Pittsburgh Section	\$ 1,000
Dayton Section	\$ 300
Erie Section	\$ 100
Baltimore Section	\$ 500
Youngstown Section	\$ 200
Southern New Jersey Section	\$ 500

### Individual Sponsors

Willowdale Enterprises	\$ 100
------------------------	--------

### Region 2 Seed funding

Region 2	\$ 10,000
----------	-----------

### Corporate Sponsors

Agile5 Technologies	\$ 1,000
Corsair (in-kind hardware)	\$ 4,000
Elgato (in-kind hardware)	\$ 4,000
Assurant / Statler College	\$ 16,000
Leidos / Lane Department	\$ 10,000

### University Sponsors

WVU Honors College	\$ 1,000
--------------------	----------

### Totals (Income)

Total Support Pledged	\$ 42,950
Total from Registration	\$ 14,030
Total Income	\$ 56,980

# Region 2 Report – Student Activities

## 2019 Student Activities Conference

### Conference Expenses

Banquet	\$ 10,553
Hotels	\$ 21,952
Transportation	\$ 250
Friday Dinner	\$ 2,690
Saturday Lunch	\$ 3,686
Nametags, placards, banners, etc.	\$ 3,653
Competition Materials	\$ 1,005
Competition Prizes	\$ 4,007
Total	\$ 47,776

### Totals

Total Income	\$ 56,980
Total Expense	\$ 47,776
Total Return to Region 2	\$ 9,204

# Region 2 Report – Student Activities

## 2019 Student Activities Conference

### ► Changes for SAC2019

- Removed Physics Competition (old/antiquated topics)
- Split Brown Bag into two competitions (I & II).
  - This is the most popular event and now there can be focus on beginner and advanced topics
- WIE Teach Competition and Outreach
  - WIE Teach has proposed working with middle schoolers for the past two years. This year there were ~20 middle school girls that were involved in the competition
- Friday night networking event was a hack-a-thon co-hosted with WVU Gaming club.
- Competition prizes went from 1<sup>st</sup> place prize to 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place prizes. Total competitions prize budget went from ~\$2000 to ~\$4600

# Region 2 Report – Student Activities

## Student Branch Counselors Feedback

### ▶ Counselors concerns

- How do we get more students involved?
- How do we reduce student registration cost?
- How do we get more financial support for students?
- R2 should create a cumulative account to cover future SACs.
- How can sponsors get better access to all the students?

### ▶ Suggestions for Region 2

- Need counselors to contact their local employers for continued sponsorship
- Need web presence on R2 website
- Need a web master
- Can R2 reach out for sponsorship?
- How do we transition students to members?
- Hackathon (Hands-on)
- Area Competitions



# Region 2 Report – Student Activities

## 2020 Student Activities Conference Announcement

- ▶ 2020 IEEE Region 2 Student Activities Conference will be held on the campus of the University of Maryland, Baltimore County on April 3-5, 2020
- ▶ Please consider sponsoring the Student Activities Conference within your Section by:
  - Donating to the SAC fund
  - Directly supporting Universities in your Section/Area
  - Identifying workshop topics and/or workshop speakers

# Region 2 Report – Student Activities

## MGA Student Activities Committee

### MGA Information 2018 Summary

#### ▶ Section-Student Branch Connection

- MGA SAC is focusing on tightening the section-student branch connection. Student branches will be treated like a Section with respect to:
  - [Student branch rebate](#)
  - [Funding opportunities](#)
  - [Officer reporting/updating](#)

#### ▶ Student Activities Awards

- [Larry K. Wilson Regional Student Activities Award](#)
- [IEEE Regional Exemplary Student Branch Award](#)
- [The Darrel Chong Student Activity Award](#)
- [IEEE Outstanding Branch Counselor and Branch Chapter Advisor Award](#)
- [Global IEEE Student Branch Website Contest](#)



# Region 2 Report – Student Activities

## MGA Student Activities Committee

### MGA Information 2018 Summary, cont'd

- ▶ IEEE Students website

- IEEE Students website was completely revamped and updated. Now a one-stop-shop for all students and student officers

- <https://students.ieee.org/>

- ▶ MGA Information 2019 Agenda

- Student use of [IEEE Collabratec](#)

- Student Activities Business Plan

# Region 2 Report – Student Activities

## Region 2 Student Activities – 2019 and Beyond

- ▶ Continue Updating Student Activities Conference
  - What's working, what's not
  - Focus on “tomorrow's technology”
  - Add workshops from activity that is already happening in the Sections
- ▶ Focus on expanding R2's Student Activities
  - Student Branch Officer training (South Area Pilot)
  - Hack-a-thon (West Area pilot)
  - More participation in [IEEE Xtreme](#)
- ▶ Student Engagement and Retention
  - How do we show the value of continued IEEE membership after graduation?
  - Continued support with [SPAx](#)
  - Continued support with [YP](#)

# Region 2 Report – Student Activities



**Drew Lowery**

*Region 2 Student Activities Coordinator  
Pittsburgh Entrepreneurship Network*

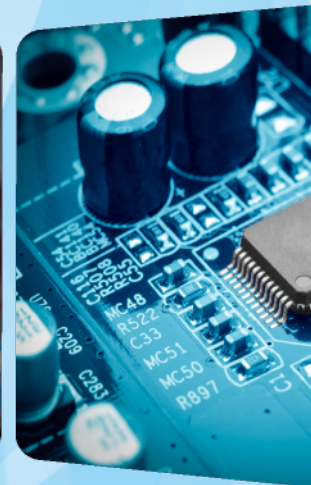
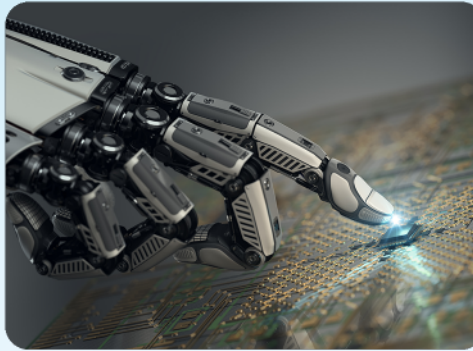
Morgantown, WV USA

Phone +1 301 697 7199

Fax +1 304 293 5024

[dlowery@ieee.org](mailto:dlowery@ieee.org)

<http://sites.ieee.org/r2/student-activities>



# Region 2 Report – Student Activities

## Additional Information

*Region 2 Annual Meeting  
Hershey, PA, May 3-5 2019*

# Region 2 Report – Student Activities

## 2019 Student Activities Conference

### Competitions

#### ▶ T-Shirt Competition

- Students will compete against each other to create a T-Shirt design that best represents the 2019 Student Activities Conference (SAC19). The winning design will be displayed on the official IEEE T-Shirt worn at SAC19. This competition is meant to promote student creativity through the use of graphic design and students' imagination. Designs must include the text "SAC19".

#### ▶ Brown Bag I

- This competition is the easier of the two circuit building competitions. Students will be given a bag of circuit components and tasks to complete using the given materials, power supplies, and multimeters. Team sizes 1-4 (all undergraduates).

# Region 2 Report – Student Activities

## 2019 Student Activities Conference

### Competitions, cont'd

#### ▶ Brown Bag II

- This is the tougher of the two circuit building competitions. Similar to the other, students will be given a bag of higher level circuit components and harder tasks to complete using the given materials, power supplies, and multimeters. Team sizes 1-4 (1 graduate student per team).

#### ▶ Ethics

- Teams will be given an ethical dilemma or real world situation where they have to communicate with each other to decide on the best course of action.



# Region 2 Report – Student Activities

## 2019 Student Activities Conference

### Competitions, cont'd

#### ▶ Micro-Mouse

- In this competition the student, or team, must design and build an autonomous robotic "mouse" capable of traversing a maze of standard dimensions from a specified corner to its center in the shortest time.

#### ▶ PicoConference Rules

- The IEEE SAC PicoConference gives undergraduate IEEE student members the opportunity to experience submitting a paper and attending a conference. Since this event's primary purpose is to improve a student's communicative skills, no student should be discouraged from entering the contest due to a lack of technical knowledge.

# Region 2 Report – Student Activities

## 2019 Student Activities Conference

### Competitions, cont'd

#### ▶ Project Showcase

- The Project Showcase allows undergraduate students, as individuals or teams, to demonstrate what they have learned or worked on throughout their undergraduate career. Project/designs (other than competing robots) can be related to school, work, or extracurricular activities that pertain to electrical and/or computer engineering.

#### ▶ Sumo Bot Kit and Custom

- Two teams place an autonomous Pololu Zumo robot in a circular ring called a Dohyo, and much like the traditional Japanese martial art of Sumo wrestling, each robot attempts to push the opposing robot out of the ring. Once one of the robots has been pushed out of the ring, the round is over, and the one who remains in the Dohyo is considered the winner.

# Region 2 Report – Student Activities

## 2019 Student Activities Conference

### Competitions, cont'd

#### ▶ WIE Teach

- The purpose of WIE Teach is to involve young girls in math and science based events and competitions to inspire the next generation of female engineers. Local middle school girls will be competing alongside IEEE College Students from Region 2 to grow the WIE Initiative. Competitors will work with the middle schoolers to explain engineering concepts and help the middle schoolers complete challenges.

# Region 2 Report – Student Activities

## 2018 Student Activities Conference

- ▶ 2018 Region 2 Student Activities Conference
  - University of Pittsburgh – Pittsburgh, Pennsylvania, April 6-8, 2018
  - 295 students, 13 student branch counselors, 49 VIPs and volunteers
  - 357 total in attendance
- ▶ Number 1 and 2 reasons for attending SAC:
  - “To network with industry professionals”
  - “To search for employment opportunities.”
- ▶ Demographics
  - 66% are juniors or above. 19% female.
  - 85% Electrical and/or Computer Engineering major.
  - Other majors are Computer Science, Mechanical Engineering, and Physics.

# Region 2 Report – Student Activities

## 2018 Student Activities Conference

### ► Schools Attended (30)

- Case Western Reserve University
- Cleveland State University
- DeVry Columbus
- Drexel University
- Gannon University
- George Mason University
- Howard University
- Lafayette College
- Marshall University
- Montgomery College
- Ohio Northern University
- Ohio State University
- Ohio University
- Penn College of Technology
- Penn State
- Penn State Harrisburg
- Rowan University

\*Did not attend last year

# Region 2 Report – Student Activities

## 2018 Student Activities Conference

### IEEE Entities

IEEE Young Professionals	\$ 1,500
IEEE Life Members Committee	\$ 1,500
IEEE Entrepreneurship	\$ 500
IEEE SPAX	\$ 200

### IEEE Sections

Pittsburgh Section	\$ 5,000
Dayton Section	\$ 300
Erie Section	\$ 100
Baltimore Section	\$ 500
Youngstown Section	\$ 200
Southern New Jersey Section	\$ 500
Philadelphia Section	\$ 1,000
Columbus Section	\$ 2,500

### Individual Sponsors

John Paserba	\$ 250
--------------	--------

### Region 2 Seed funding

Region 2	\$ 10,000
SAC Rollover	\$ 8,800

### Corporate Sponsors

Bechtel Plant Machinery, Inc.	\$ 1,483
Navy Nuclear Laboratory	\$ 1,525
U.S. Navy	\$ 1,992
Rockwell Automation	\$ 3,000
Mitsubishi Electric Power Products, Inc.	\$ 1,000

### University Sponsors

University of Pittsburgh ECE Dept.	\$ 3,000
CMU School of Computer Science	\$ 2,500

### Totals (Income)

Total Support Pledged	\$ 47,350
Total from Registration	\$ 15,760
Total Income	\$ 63,110

# Region 2 Report – Student Activities

## 2018 Student Activities Conference

### Conference Expenses

Banquet	\$ 16,594
Hotels	\$ 18,018
Transportation	\$ 3,339
Friday Dinner	\$ 1,967
Saturday Lunch	\$ 2,819
Nametags, placards, banners, etc.	\$ 4,402
Competition Materials	\$ 605
Competition Prizes	\$ 1,937
Total	\$ 49,681

### Totals

Total Income	\$ 63,110
Total Expense	\$ 49,681
Total Return to Region 2	\$ 13,429