



Dr. Wolfram Bettermann IEEE Region 2 Director



Region 2 Director 2019-2020

Our recent IEEE President-elect campaigns and elections have been completed. We celebrate the fact that **Susan K. “Kathy” Land**, IEEE Fellow, has been elected as the 2020 IEEE President-Elect. Pending acceptance of the IEEE Tellers’ Committee report by the IEEE Board of Directors on 24-25 November, Kathy will begin serving as IEEE President on 1 January 2021.

IEEE Region 2's conference and special event line up this year has been spectacular, bringing in global audiences and offering opportunities for multiple regions, areas, sections, and societies to collaborate.

The [IEEE Region 2 website](#) continues to offer up-to-date information on the plethora of technology and innovation programs and events. Please don't hesitate to [contact me](#) with your innovative ideas, suggestions, and feedback.

Spotlight on Your Region 2 Committee Chairs and Coordinators

Our valued **volunteers** are key to growing and sustaining our vast IEEE member organization. In each of our newsletter editions in 2019 we highlight a set of our [Region 2 Committee Leaders](#) and recognize them for their service as they work to foster technological innovation and excellence for the benefit of humanity.



Steve Bonk

**Educational
Activities
Coordinator**

[Leader Bio](#)



Joe Cioletti

Industry Relations

[Leader Bio](#)



William Howard

**Regional Student
(SAC) Representative**

[Leader Bio](#)



Anna Romaniuk

**Employment & Career
Activities Coordinator**

[Leader Bio](#)



Matteo Sabattini

**Technical Policy
Coordinator**

[Leader Bio](#)

National Cybersecurity Awareness Month



October is **National Cybersecurity Awareness Month**, and the Computer Society is bringing you daily tips, tools, and resources to celebrate. Check back daily for your tip of the day and be sure to [sign up for our webinar](#)

featuring Steven Bay, who will explore recent breaches and provide strategies to protect you and your business.

The **IEEE Cybersecurity Initiative (CYBSI)** was launched in 2014 by the IEEE Computer Society and the IEEE Future Directions Committee. Its aims are to (1) provide the go-to online presence for security and privacy (S&P) professionals; (2) improve the comprehension of

cybersecurity by students and educators; and (3) improve S&P designs and implementations by professionals.

To achieve the first goal, we launched this website and collected an exciting series of interviews, which can be found here.

To achieve the second goal, we launched Try-Cybsi, an effort to allow students and practitioners the ability to try out attacks, tools, and exercises key to understanding computer security.

To achieve the third goal, we launched the Center for Secure Design, which intends to shift some of the focus in security from finding bugs to identifying common design flaws in the hope that software architects can learn from others' mistakes. We also launched a new conference: IEEE SecDev, to ensure that there will be robust and ongoing expansion of knowledge around creating secure systems.

The Chair (Robert Cunningham) and Vice Chair (Ulf Lindqvist) have spoken about what they hope to accomplish for the effort [here, here, and here]. They thank Greg Shannon for his early leadership on the effort.

If you are interested in keeping up with activities stemming from the initiative, join the community, follow us on Twitter @ieeecybsi, or send us an email at ieecybsi@ieee.org.



Upcoming IEEE Region 2 Conferences

2019 Tenth International Green and Sustainable Computing Conference (IGSC)



IGSC 2019 (The Tenth International Green and Sustainable Computing Conference) provides a forum for presenting and discussing innovative research on a broad range of topics in the fields of sustainable and energy-efficient computing and computing for

a more sustainable planet. The conference consists of technical papers, panels, workshops, PhD Forum, and special sessions on these topics. More details on topics of interest are provided in call for papers

October 21-24, 2019, Alexandria, VA, U.S.A.

[Information and Registration](#)

2019 IEEE Avionics and Vehicle Fiber-Optics and Photonics Conference (AVFOP)



The aerospace & vetronics industries have made great strides in recent years deploying fiber optics and photonics technology on commercial and military platforms. This trend will continue to grow as avionics & vetronics fiber optic

system architectures, networking schemes, and components evolve and mature. This application-oriented conference will provide an international forum for leaders, researchers, engineers, and manufacturers to convene and discuss issues of deploying photonics-based avionics and vetronics technologies specifically in harsh environments.

5 - 6 November 2019 | Arlington, Virginia, USA

[Information and Registration](#)

2019 IEEE/ACM Symposium on Edge Computing (SEC)



The **Fourth ACM/IEEE Symposium on Edge Computing (SEC)** seeks to present exciting, innovative research related to the design, implementation, analysis,

evaluation, and deployment of computer systems and applications at the network edge. SEC is a forum for top researchers, engineers, students, entrepreneurs, and government officials come together under one roof to discuss the opportunities and challenges that arise from rethinking cloud computing architectures and embracing edge computing. SEC takes a broad view of edge computing and solicits contributions from many fields of systems practice that embrace any aspect of edge computing.

7 - 9 November 2019 | DC, Washington, USA

[Information and Registration](#)

2019 IEEE International Test Conference (ITC)

International Test Conference, the

cornerstone of TestWeek events, is the premier conference dedicated to the electronic test of devices, boards and systems – covering the

complete cycle from design verification, test, diagnosis, failure analysis and back to process improvement. At ITC, test and design professionals can confront the challenges the industry faces, and learn how these challenges are being addressed by the combined efforts of academia, design tool and equipment designers, and test engineers.



9 - 15 November 2019 | Washington, District of Columbia, USA

[Information & Registration](#)

2019 IEEE 60th Annual Symposium on Foundations of Computer Science (FOCS)

The IEEE Symposium



on **Foundations of Computer Science (FOCS)** is the flagship conference sponsored by

the IEEE Computer Society [Technical Committee on the Mathematical Foundations of Computing \(TCMF\)](#) and covers a broad range of theoretical computer science. It is held annually in the autumn and is paired with its sister conference, the annual Symposium on Theory of Computing (STOC) held each spring and sponsored by ACM SIGACT. [here](#).

9 - 12 November 2019 | Baltimore, Maryland, USA

[Information & Registration](#)

2019 APWG Symposium on Electronic Crime Research (eCrime)

For 2019 APWG's members will once again come together to bridge the gaps between cybersecurity operations, research and consumer messaging with our fourteenth Symposium on Electronic Crime Research (eCrime 2019).



eCrime 2019 will look at the operational challenges and development of common resources and best practices for first responders and forensic professionals. In addition, the conference will dive into current research projects and future areas of interest for cybercrime investigations, forensic techniques and infrastructure defense. including our peer-reviewed cybercrime published paper program with the IEEE-SA.

13 - 15 November 2019 | Pittsburgh, Pennsylvania, USA

[Information & Registration](#)

2019 IEEE Healthcare Innovations and Point of Care Technologies (HI-POCT)



The sixth annual **IEEE EMB Strategic Conference** will focus on point-of-care technologies (POCT) for healthcare, emphasizing funding opportunities and the

promise and pitfalls of the journey from idea to the patient. The conference will provide a strategic forum in which clinicians, industry experts, innovation experts, researchers and students will examine how to define unmet clinical needs and successfully travel along the innovation cycle towards commercialization and patient impact. Clinical, technological, regulatory, and marketing aspects of this learnable process will be stressed. Small group sessions will do deep dives in commercialization bootcamp sessions. Recently-

established Centers for POCT will highlight their funding opportunities for academic and industry innovators. “Speed dating” networking sessions will give innovators opportunities to privately discuss their technologies with Center leaders.

20 - 22 November 2019 | Bethesda, Maryland, USA

[Information & Registration](#)

2019 IEEE Signal Processing in Medicine and Biology Symposium (SPMB)

The IEEE SPMB Symposium promotes interdisciplinary papers across a wide range of topics including analysis of biomedical signals and images, machine learning, data and educational resources.



The symposium typically consists of 18 highly-competitive full paper submissions that include oral presentations, and 12 to 18 single-page abstracts that are presented as posters. Two plenary lectures are included - one focused on research and the other focused on emerging technology.

7 December 2019 | Philadelphia, Pennsylvania, USA

[Information and Registration](#)

2019 Winter Simulation Conference (WSC)



The Philadelphia Section of the IEEE and the Philadelphia Section of the IEEE Signal Processing Society invite you to participate in a **single-day symposium** designed to promote synergy between the healthcare industries and signal processing researchers.

8 - 11 December 2019 | National Harbor, Maryland, USA

[Information and Registration](#)

IEEE DAY 10th Anniversary

Leveraging Technology for a Better Tomorrow

IEEE Day: Celebrating the first time in history when engineers worldwide and IEEE members gathered to share their technical ideas in 1884.

While the world benefits from what's new, IEEE focuses on what's next.



Over 1200 events were held globally!

Spotlight on Our IEEE R2 Sections



IEEE Cleveland Section inspires Northeast Ohio professionals and students to stay connected and to collaborate by creating and providing leadership programs to educate and to stimulate technological innovation, and engineering excellence.

IEEE

Cleveland

Meet Your **Officers:**

- Steven Galecki
- Abe Shahrodi
- Chris Hrivnak
- Max Scardelletti

WEST Area Chair

[Chang Liu](#)

IEEE Johnstown

Meet Your **Officers:**

- Martin Brandau
- William Wieserman
- Michael Ream

Central Area Chair

[Robert Lesniewski](#)



Johnstown Section - M. Ed Brandau, Chairman

The **IEEE Johnstown Section** started in 1948 with members in the AIEE, the American Institute for Electrical Engineers. The American Institute of Electrical Engineers was a United States based organization of electrical engineers that existed between 1884 and 1963 (when it merged with the Institute of Radio Engineers (IRE)). The 1884 founders of the American Institute of Electrical Engineers (AIEE) included some of the most prominent inventors and innovators in the then new field of electrical engineering, among them Thomas Alva Edison, Elihu Thomson, Edwin J. Houston, and Edward Weston. Find the full history of the section [here](#).

The **IEEE Johnstown Section** again participated in the Spring UPJ (University of Pittsburgh at Johnstown) senior project presentations. Our input is part of the student grade, we provide awards, and we will partially fund requested projects after review. This participation has helped boost student membership and IEEE exposure.

The section is also planning a student pizza event where we will let the students know we are willing to sponsor worthy senior projects, encourage membership, and answer questions in an open Q&A. We have done this a few times in the past and it is well received since the students get free pizza and a chance to ask any questions. Usually they ask about resumes, openings, and what IEEE does.

Our next event will be a tour at a local electrical equipment refurb company followed by a

networking lunch. This company is also willing to tour their other two locations at future events if there is interest. This type of event helps both our members and the tour company by increasing their exposure to local engineers. This will be our first lunch event in quite some time, so we are hoping for good attendance.

We will also be planning an open dinner/networking event in Late November at a local restaurant. Usually we do evening plant tours so we are hoping this will be a different venue for our members.

CALL TO ACTION

The IEEE Johnstown Section is looking for volunteers to serve as officers in 2020 and beyond. Micro-volunteering opportunities are also available. Please reach out to the Chair, [Mr. M. Edward Brandau III](#)



Lima is located in northwest Ohio. The **IEEE LIMA** section was established on June 24, 1954. Membership includes the surrounding counties in the northwest corner of IEEE Region 2. We have neighboring Region 2 sections in [Dayton](#) and [Columbus](#), and neighboring Region 4 sections in [Toledo](#) and [Fort Wayne](#) (IN).

IEEE Lima

Meet Your Officers:

- [Ajmal Khan](#)
- [Noah Graham](#)
- [Ziad Youssfi](#)
- [Heath LeBlanc](#)

WEST Area Chair

[Chang Liu](#)

IEEE Philadelphia

Meet Your Officers:

- [Emilio Salgueiro](#)
- [Mark Soffa](#)
- [Robert Johnston](#)
- [J.J. Gingerich, Jr](#)

EAST Area Chair

[Don Herres](#)

IEEE Philadelphia Section



Inspiring the Philadelphia Region

The **Philadelphia Section** (or Branch as it was then called) of the American Institute of Electrical Engineers, or AIEE for short, was organized in 1903. As the electric power industry grew so did the AIEE. However, on May 13, 1912, another branch of the electrical profession, the radio engineers, formed the Institute of Radio Engineers (IRE), which grew so rapidly its membership soon surpassed that of the AIEE. As early as 1922, the AIEE and IRE discussed the possibility of merging, as the interests of the societies overlapped. No serious steps were taken until 1961. One year later, the membership of the organizations approved the merger, which officially took place on January 1, 1963, under the new name of The Institute of Electrical and Electronics Engineers, Inc. (IEEE).

Today the **IEEE Philadelphia Section** serves more than 4,000 members in the Delaware Valley including

Bucks, Chester, Delaware, Montgomery, and Philadelphia counties in Pennsylvania, Burlington, Camden, and Gloucester counties in New Jersey.

The Philadelphia Section holds regular meetings (third Tuesday except December, June, July, and August) and events, publishes a member newsletter, the Almanack, ten times per year; presents an annual awards banquet & gala, and offers a leadership scholarship through its student branch. The section currently has 22 chapters and four affinity groups. Many volunteer opportunities exist.

IEEE West Virginia Section



The **IEEE West Virginia Section** is a part of Region 2 and is actively involved in various events throughout the year.

We are proud to do our part to support “The world’s largest professional association for the advancement of technology.”

It is through the valued contributions of our members, and those professionals who support us, that we educate the world and provide valuable learning opportunities for the advancement of technology.

IEEE West Virginia

Meet Your Officers:

- Dr. Kenan Hatipoglu
- Dr. Sanish Rai
- Dr. Mingyu Lu
- Russ Safreed, PE

Central Area Chair

[Robert Lesniewski](#)

Call for IEEE Region 2 Award Nominations

How to Nominate

- <https://apply-ieee.smapply.io/>
- Click "Register" to register as a new user and create account
- Select the award, click "Apply" and fill out the online nomination form.

Now Accepting Nominations

- Region 2 **Outstanding Professional Award**
- Region 2 **Outstanding Service Award**
- Region 2 **Outstanding Professional Educator Award**
- Region 2 **Professional Leadership Award**
- Region 2 **Outstanding Section Award**

Nomination Deadline is **December 1, 2019**

IEEE History Center



Since its inception, IEEE has had a standing [History Committee](#) advising the IEEE Board of Directors on matters of the legacy and heritage of IEEE and its members and their related professions and technologies, and carrying out some activities in those areas.

In 1980, in anticipation of its Centennial celebration in 1984, [IEEE established the IEEE History Center to be the staff arm of the History Committee](#). In 1990, the Center moved to the campus of Rutgers University, which became a cosponsor. In 2014, the Center moved to Stevens Institute of Technology. Today, IEEE's central historical activities are carried out largely by [the staff of the History Center](#), under the guidance of the History Committee.

The History Committee members also review nominations for IEEE Milestones, books submitted for the J&W Middleton Electrical Engineering History Award, and scholarship applications.

If you or your section is interested in nominating an IEEE Milestone, please contact [Robert Colburn](#).

See the [Milestone](#) for the IBM Thomas J. Watson Research Center (1960-1984)

IEEE 2 Volunteers Support Youth in Engineering



The USA Science & Engineering Festival inspires students nationwide with year-round K-12 educational programming and culminates in a multi-day celebration on April 23-26, 2020 in Washington, DC!



Celebrating 30 Years of engineering community & Inspiring youth to Discover Engineering,

We help unite, mobilize, and support the engineering and technology volunteer communities to increase their collaborative footprint in K-12 education and celebrate with the public as it discovers the value of engineering education and careers.



Future City is a project-based learning program where students in 6th thru 8th grades imagine, research, design, and build cities of the future.

Welcome to IEEE DataPort's first ever Dataset Upload Competition!



Launching on October 1, 2019 at 12:00am EDT, this contest is designed to encourage authors and researchers to bring their research to the forefront of the global technical community by uploading it to [IEEE DataPort](#). During the month of October

those who upload datasets to IEEE DataPort will also have the opportunity to win prizes for their dataset uploads.

Authors, researchers, and engineers alike are invited to upload their

Standard or Open Access datasets to IEEE DataPort and enter the contest. Users will be prompted to review and agree to the Official Rules of the contest during the dataset upload process. Please note that uploads to the Data Competitions module of IEEE DataPort are ineligible for entry.

[Information and Rules](#)

Support Your WIE Community

The IEEE R2 WIE Planning Committee is open to anyone who is a member of Region 2 with interests in participating and contributing to a more robust IEEE WIE within the Region. Section Chairs and other R2 leaders we'd love to have your support for WIE initiative and be recognized! Join WIE to innovate and collaborate with other Committees, (Industry Relations, Membership Development, Young professionals, Student and Professional Activities, etc.). For additional information contact [Carole Carey](#).



IEEE Women in Engineering Region 1 & Region 2 Forum USA East 2019



Support Our Annual WIE Event

This event draws over **225** participants, **250+** career fair attendees, and a wide spectrum of sponsors, patrons, and career-fair vendors.

ACT NOW to nominate a speaker, volunteer, register, or sponsor our event.

<https://attend.ieee.org/wie-forum-usa-east-2019/>

- **Elevating women and students** by offering value-laden speaking, publishing, leadership, and volunteer opportunities
- **Connecting women and students** with executives and practitioners across multiple engineering disciplines (Cybersecurity / IT, Data Sciences, Electrical and Computing Engineering, Mechanical Engineering, Math and Sciences)
- **Informing and motivational** keynotes, sessions, and workshops geared towards driving higher levels of innovation, empowerment, and leadership
- **Opportunity to drive brand awareness** for diversity, inclusion,

cyber, and engineering initiatives within your firm

Lastly, our onsite career fair offers firms an opportunity to reach highly-skilled diversity candidates whom are ready to help take your organization to the next level.

Contact your local SECTION for PACE funding for Student attendance.

Membership Development Awards



Membership Development *Retention* Performance Award



Congratulations to the IEEE Region 2 **Johnstown Section** for achieving their 2019 Membership Retention GOAL!

IEEE Innovation in Action!

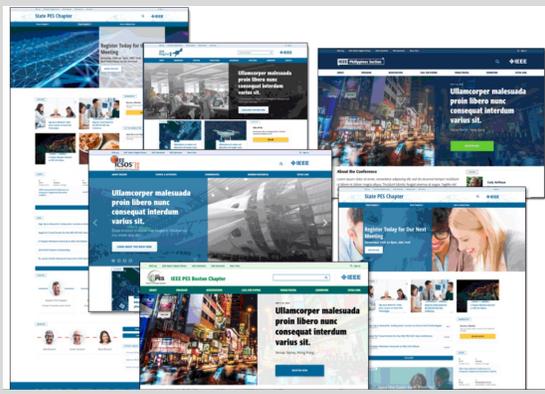
IEEE provides print and web templates, site management resources, and tools for IEEE employees, volunteers, and vendor

IEEE is the world's most trusted source for engineering, computing, and technology professionals. A global community, the association supports technological innovation for the benefit of humanity. Through member collaboration and the association's diverse selection of publications, conferences, educational resources, and standards development, IEEE advances innovation and technological excellence while inspiring future generations. Adherence to our identity guidelines is the first step to a unified and recognizable brand experience and goes directly to the value of our brand.



[Templates, Tools, and Resources](#)

New IEEE website templates



The **IEEE Digital & Creative Innovations team** has created a flexible, free IEEE-branded website template suite for use by staff and volunteers. These templates support conferences, local IEEE Sections and Regions, Student Branches, programs, services, and initiative websites to create high quality, user-friendly web designs.

Template data [here](#).

IEEE's New Volunteer Expense Reimbursement Platform (Concur)

The IEEE Volunteer Expense Reimbursement tool (Concur), a cloud-based expense reimbursement application, is designed to create an easy, efficient, and automated expense reimbursement experience for IEEE volunteers. This new platform was endorsed by the IEEE Financial Committee (FinCom) and officially launched in February 2019. A phased roll-out is in process.

[Additional Information](#)

CALLING ALL IEEE LEADERS

REGIONAL & SECTION ELECTION INFORMATION

If your IEEE OU is one a one-year election cycle, it is time to focus on nominations and elections for the 2020 or 2020-2021 time-frame. The following tools are available to guide the leaders through this process successfully.

- **Governance** [MGA Operations manual Section 9](#) for additional information
- **Section Vitality** [Checklist](#)
- **Calendar** Section election [calendar tool](#)
- **Voting Tool** [vTools Voting](#)

Please don't hesitate to reach out to a [Region leader](#) if you have questions.

IEEE News You Can Use

Get the NEWS on all the activities happening in IEEE Member and Geographic Activities (MGA)

MGA News

Enhance Your Knowledge and Build Community
JOIN an IEEE Technical Community Now!



Try them Out and GET [INVOLVED!](#)

IEEE Collabratec

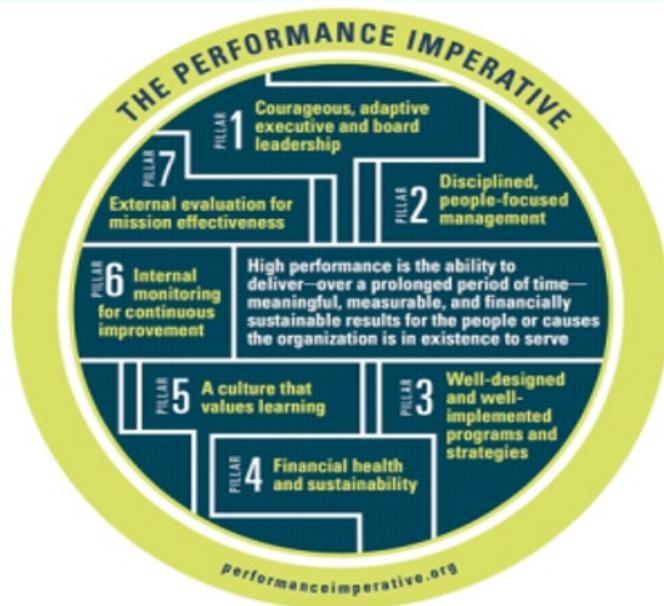
IEEE Collabratec is an integrated, online community where technology professionals can network, collaborate and create in one central hub. IEEE Collabratec's suite of productivity tools is available to technology professionals around the world, with exclusive features for IEEE members. IEEE Collabratec can help you!



More information and account access [here](#).

Regional Vitality Focus Areas

EFFECTIVE & ONGOING CHANGE HELPS REGION 2 THRIVE!



Let's Change the R2 Conversation to WE Can!

- Updated Feedback from 2018 MGA GUOS Analyzed
- Regional Meeting Assessment
- Awaiting Finalized 2020+ IEEE HQ Board Strategy
- Continued Analysis of OU Analytics, Leadership Information, Technological Infrastructure
- Vitality Calls to Build Community
- Bolstered Social Media, Newsletters, and Programmatic Approach
- Targeted Outreach to potential members, partners, and the broader technology and innovation community
- In-depth Region 2 Vitality Assessment (Annual)

Each of **YOU** are Key to the Vitality Program!

IEEE CORE VALUES: TRUST • GLOBAL COMMUNITY BUILDING • PARTNERSHIP • SERVICE TO HUMANITY • INTEGRITY IN ACTION • GROWTH & NURTURING

Region 2 is also Leveraging Collabratec, Conferences, Industry, Sections, Societies, Social Media, Student Branches, Life Members, WIE, and YP.

Join Us as we work together to move R2 forward!



IEEE Membership Join, Renew, & Elevate

Give the gift of [IEEE membership](#) to a student or professional or renew now.

[Elevate](#) an IEEE professional to a **Senior** member or **Fellow**.

Refresh your knowledge on the great [benefits](#) of IEEE membership.