

# IEEE Region 2

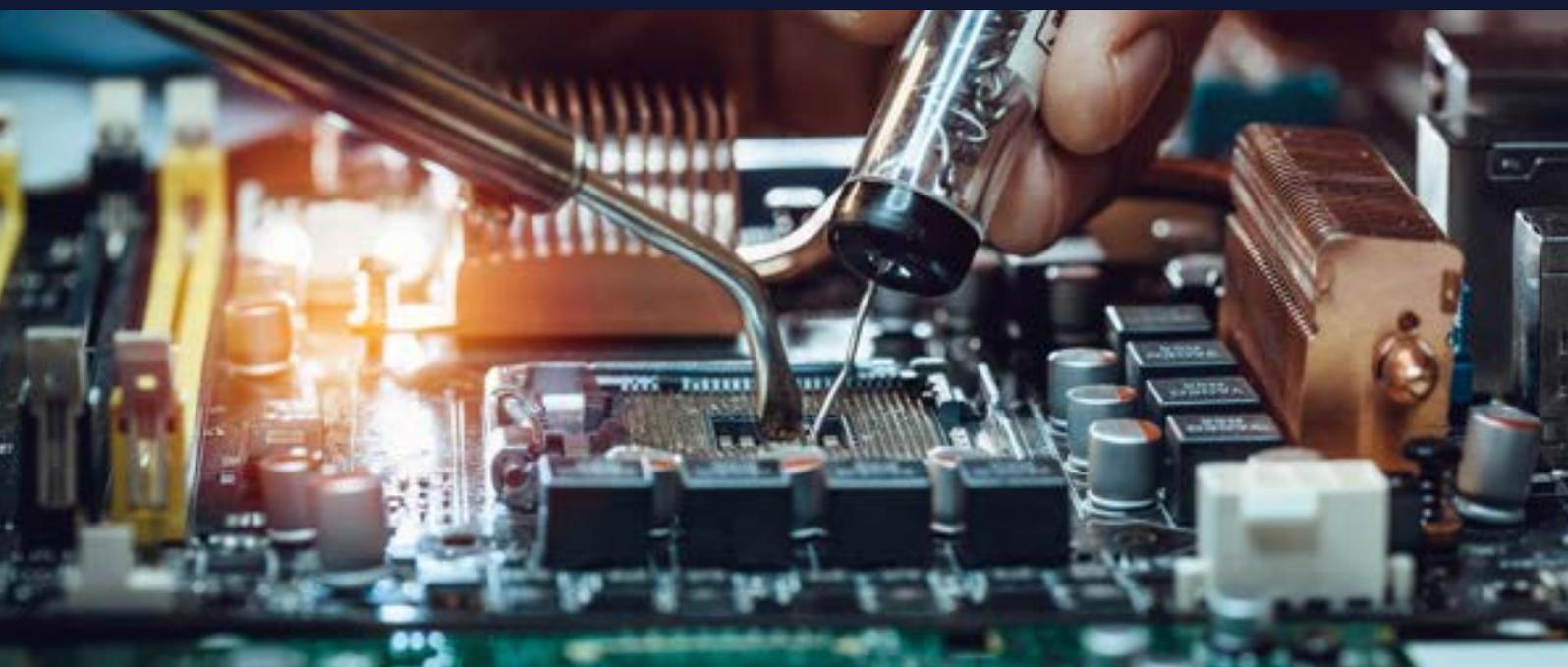


## INSIDE THIS ISSUE

- *Engineering Week & Black History Month*
- *Current & Future Events From Around the Region*
- *Hot Topics of the Month IEEE-USA, IEEE, and Region 2*



Mr. Barry Tilton



## Introduce A Girl To Engineering Day

**Introduce a Girl to Engineering**, or **Girl Day**, is a time when volunteers, educators, and others act as role models, facilitate engineering activities, and show girls how engineers change our world. DiscoverE's *Despite the Odds* research found that this simple formula helps girls develop an interest in engineering, builds their confidence in their problem-solving skills, and creates a STEM identity. *You can make a difference in a girls' life.*



## IEEE Dayton Section Participates in VEX Robotics Challenge



On Saturday, January 29th, members of the **Dayton Section** participated as interviewers and judges in the Greene County *VEX Robotics Challenge*. The VEX Robotics competition prepares students to become future innovators with 95% of participants reporting an increased interest in STEM subject areas and pursuing STEM-related careers. VEX competitions are also a great way to expose students to valuable soft skills like communication, collaboration and time-management in a fun and authentic way.



*Forty-three teams* competed in the all day competition comprising three phases: 1) engineering notebook, 2) robotics obstacle course and 3) team interviews. The **Dayton Section** had a table set up to distribute IEEE swag to the student competitors and IEEE STEM information to the middle and high school faculty. The photos depict the robotic competition set-up and test area, a timed competition with four teams engaged, and a "Rossum's Universal Robot" cookie! The Dayton Section plans to continue dialogue and support the Greene County VEX Robotics Challenge as part of our **STEM outreach**.



## Call for Nominations: 2023 IEEE MGA



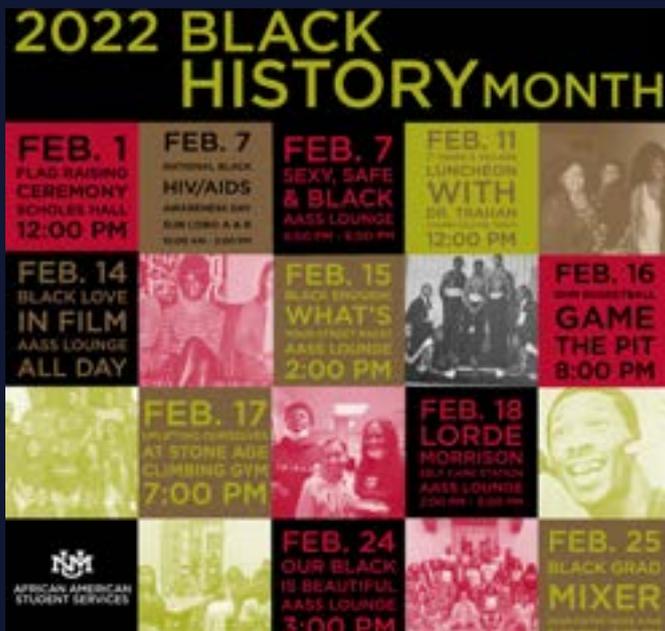
The **IEEE Member and Geographic Activities (MGA) Nominations and Appointments (N&A) Committee** is soliciting nominations for multiple 2023 leadership positions.

A complete list of available MGA positions, committee descriptions, and information on the MGA Nominations and Appointments process are available. [Nominate](#) yourself or a colleague today!

The deadline to submit [nominations](#) for the above positions is **15 March 2022**.

*Newsletter Editor: Dr. Rhonda Farrell, [ieeer2rvc@gmail.com](mailto:ieeer2rvc@gmail.com), [www.ieee.org/r2](http://www.ieee.org/r2)*

## February 2022 Black History Month



The story of Black History Month dates back to 1926 in the United States. At that time, an African-American historian named **Carter G. Woodson** founded a week that focused on celebrating the accomplishments of African Americans. He decided on a week in February because two important men were born in that month.

This month-long observance in the US and Canada is a chance to celebrate Black achievement and provide a fresh reminder to take stock of where systemic racism persists and give visibility to the people and organizations creating change.

This year's theme is focused on Black people's health and wellness. According to the Association for the Study of African American Life and History (ASALH), "the 2022 theme considers activities, rituals and initiatives that Black communities have done to be well".

NPR has compiled a Special Program [here](#).

## Region 2 Section Leader Development

IEEE Region 2 offered a Section Leadership Training on 05 Feb 2022. Co-led by Regional Director-Elect Mr. Drew Lowery and South Area Chair Mr. Don Herres, with over 35 personnel attending, we learned about such topics as the IEEE structural overview, turning visitors into volunteers, **Baltimore Robot Challenge**, [research](#) related to prior years' experiences, Regional Student Activities, and a Roundtable discussion with IEEE-USA President-Elect 2023 Ed Palacio, Region 2 Director Barry Tilton & others.

Review the Washington's Section Middle and High School Student STEM support partners, pictures, history, and future events [here](#).

Missed the training, read the decks [here](#).



## IEEE HAC / SIGHT

The **IEEE Humanitarian Activities Committee (HAC)** provides a suite of resources that inspire and enable IEEE volunteers around the world to carry out and support impactful humanitarian technology and sustainable development activities at the local level.



# IEEE WIE 25th Anniversary



The year **2022** will mark the 25th anniversary of **IEEE Women in Engineering** and we are planning a full year of celebrations and key moments to reflect on the great progress and achievements made by great women in STEM within the IEEE. We also plan to celebrate the great men who consistently support women along the way.



The WIE 25th anniversary Sub-committee is ready to announce the portfolio of activities which will start with concerted reflections by the past and current WIE chairs, who have led the Committee since its formation in 1997, with a special interview session this year. Follow our **Events** here.

## Lehigh Valley WIE the WIE Tipping Point

Congratulations to the **IEEE Lehigh Valley Section** WIE Affinity Group, which is the Region's 11th and newest addition to the Women in Engineering OUs. The official approval date was October 20, 2021. The newly-formed WIE AG had their kick-off meeting soon after and have been holding monthly planning meetings since October. This puts **Region 2** at 55% coverage of WIE Affinity Groups - Congratulations to Carole Carey and the great team making this possible.

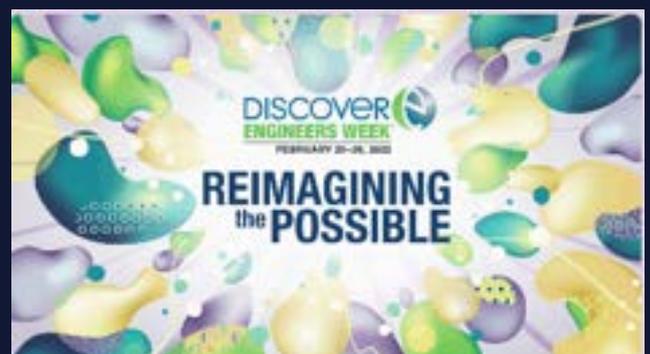
## Reimagining the Possible

Join DiscoverE for **Engineers Week**

February 20 to 26, 2022

More than a week-long event, Engineers Week is a year-round commitment to making a difference. The only event of its kind—it is a time for you to:

- Celebrate how engineers make a difference in our world
- Add your voice to the conversation about the need for engineers, technicians, and technologists
- Engage students in engineering



Newsletter Editor: Dr. Rhonda Farrell, [ieeer2rvc@gmail.com](mailto:ieeer2rvc@gmail.com), [www.ieee.org/r2](http://www.ieee.org/r2)

## Support Our Young Professionals



**IEEE Young Professionals** is the group of IEEE members and volunteers who have graduated from their first professional degree within the past 15 years. It is an international community, whose members are interested in elevating their professional image, expanding their global network, connecting with peers locally and giving back to their community. Since it encompasses all members from recent university graduates to experienced professionals and entrepreneurs, the group is highly diverse in what it has to offer. To join the IEEE Young Professionals community, you need to be an IEEE member - [Join now](#).

Review the **Impact of Emotional Intelligence** on Effective Leadership, The process of leading others to attain a goal is known as leadership. Leaders must use emotional intelligence to understand themselves and their workers better to achieve more excellent results.

## 2022 IEEE Vision, Innovation, and Challenges Summit



The **2022 IEEE Vision, Innovation, and Challenges Summit** (IEEE VIC Summit) & Honors Ceremony will be held at the Marriott Marquis San Diego Marina in San Diego, California, USA on Friday, May 6.

The IEEE VIC Summit and Ceremony is IEEE's premier event that highlights the innovation and creativity of engineering, science, and technology through provocative, educational, and inspiring talks with a vision for the future, opportunities for innovation, and the challenges to overcome. In 2022, you will hear experts discuss the impacts of technology in the areas of 5G, cloud, cybersecurity, machine learning, metaverse, aerospace technology, digital twins, smart cities, IoT, and more.

This event culminates in the **Honors Ceremony** – the evening celebration of renowned icons whose work has served as a catalyst for, and propelled major advances in, such areas as communications, medical imaging, visual media, information sciences and systems, and various other fields of computer and electrical engineering. It is only through their achievements today's advancements have been made possible.

The event typically draws in individuals from all over the world, from young professionals to mid-high-level career professionals, in the technology ecosystem.

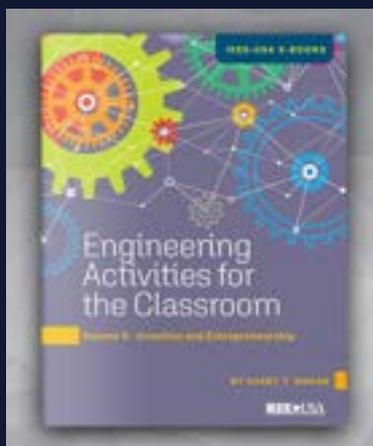
Ensure that you **register** today to make the April 01, 2022 deadline

*Newsletter Editor: Dr. Rhonda Farrell, [ieeer2rvc@gmail.com](mailto:ieeer2rvc@gmail.com), [www.ieee.org/r2](http://www.ieee.org/r2)*

## IEEE – USA Special Resources

### New E-Book: Engineering Activities for the Classroom – Volume 5: Invention and Entrepreneurship

This e-book, the fifth in a series of engineering activities for the classroom, gives teachers a way to expose their students to invention and entrepreneurship. This is a free download for all IEEE members.



### FIVE QUOTES TO LIVE BY AS YOU START YOUR CAREER



Author Paige Kassalen offers five quotes to live by, helpful for those early in their careers but equally relevant to anyone.

Newsletter Editor: Dr. Rhonda Farrell, [ieeer2rvc@gmail.com](mailto:ieeer2rvc@gmail.com), [www.ieee.org/r2](http://www.ieee.org/r2)

### FOUR THINGS TO CONSIDER BEFORE PROVIDING FEEDBACK

The way that we give and receive critiques is vital to learning and growth. Here are four tips to help make your feedback more effective.



### HOW TO CULTIVATE FLOW IN THE WORKPLACE



Learn some key tips to make your work more efficient and effective while reducing your stress load.

### FREE WEBINAR: INCREASING YOUR CAREER OPPORTUNITIES WITH PERSONAL BRANDING (23 FEB, 2:00PM ET)

If you have ever been asked, "Tell me about yourself" and struggled to be concise, are changing careers, or are looking to increase your profile internally, this webinar is for you!



## IEEE-USA Awards & Recognition



To honor his dedication and excellence, **Mr. Thomas Pierpoint** is being awarded the *2021 John Meredith Professional Service Award*. This award recognizes key individuals for outstanding IEEE-USA volunteer efforts and contributions.

**IEEE-USA** is also honoring five other members for their distinguished achievements this year, which we will cover monthly.

The **IEEE-USA Awards and Recognition** Committee administers these prestigious awards, and the IEEE-USA Board of Directors approves them. IEEE-USA honors accomplishments in three categories: professionalism, technical achievement, and literary contributions.

"These awards recognize some of the exceptional work that our members are doing in the engineering profession and in their communities," said **Dr. Jason Hui, 2021-2022 IEEE-USA Awards and Recognition Committee Chair**. "If you know someone who is deserving in any of the award categories, please nominate them for consideration in 2022!"

IEEE-USA, Senior Manager, **Mr. David Iams** runs this initiative on the staff side.

## IEEE-USA AICN NEWSLETTER

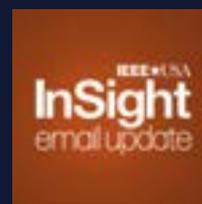


Timely news for consultants and would-be consultants on how to start or improve a consulting practice. It contains stories written by IEEE members about the world of engineering consulting, highlighting trends in the engineering field and interviews with company execs about what they look for in a consultant.

*Newsletter Editor: Dr. Rhonda Farrell, [ieeer2vc@gmail.com](mailto:ieeer2vc@gmail.com), [www.ieee.org/r2](http://www.ieee.org/r2)*

## IEEE-USA NEWSLETTERS

### IEEE-USA INSIGHT



This monthly newsletter notifies U.S. members and subscribers of new online content, news, products, services, and events from IEEE-USA and other parts of IEEE.

## IEEE-USA LEADERSHIP CONNECTION



This monthly update informs U.S. student members and Young Professional members about resources designed to help them build satisfying and sustainable careers.

## IEEE-USA CONFERENCE BRIEF



The **IEEE-USA Conference Brief** provides information about IEEE-USA-sponsored or co-sponsored conferences and events where IEEE-USA will have a presence, including calls for papers, key dates and registration information.

## IEEE-USA SMARTBRIEF



A weekly snapshot of technology policy with news from the Hill/Hilicon Valley blog, CNET and other leading sources. Summaries of what matters to you, written by expert editors to save you time and keep you informed and prepared. Created by SmartBrief, a business news publisher, in partnership with IEEE-USA.

## IEEE Students

### Take the Next Step Together

Accelerate your growth by associating with like-minded people and take advantage of all benefits the [IEEE Student Membership](#) offers.

For non-students, you can continue to help build out IEEE's organizational pipeline by recruiting new student and faculty sponsors for **[Student Branches](#)** and affinity groups, , volunteering for the SAC committee, being an Ambassador, or becoming a program **[Sponsor](#)**.



#### Opportunities Abound

- Student Branch Affiliated **[Awards](#)**  
Open 01 FEB 2022
- Become a **[Virtual Speaker](#)**
- Host a **[SPAx Event](#)**
- Participate in an IEEE **[Contest](#)**
- Find a **[Scholarship](#)** or Funding
- Participate in **[Humanitarian](#)**  
Activities
- Earn a **[Badge](#)**



## IEEE USA Congressional Visit Day 5-6 April 2022



**IEEE-USA's Congressional Visits Day (CVD)** is an annual event that brings engineers, scientists, mathematicians, researchers, educators, and technology executives to Washington to raise visibility of and support for engineering and technology. This premier event is open to all IEEE members, especially those who support federal STEM research. The program consists of a series of briefings and meetings, culminating with a full day of visits with your Congressional delegates.

IEEE-USA's CVD raises awareness of the long-term importance of engineering and technology to the nation.

[REGISTER Today!](#)

Newsletter Editor: Dr. Rhonda Farrell, [ieeer2rvc@gmail.com](mailto:ieeer2rvc@gmail.com), [www.ieee.org/r2](http://www.ieee.org/r2)

## January 22 MGA Scoop

**IEEE Transmitter** has a collection of articles, videos, and infographics available. Read the results of an **IEEE Global Study** covering the most important technologies in 2022, industries most impacted by technology in the year ahead, and technology trends through the next decade.



When considering grant applications, one of the most important requirements funding agencies are looking for is your Data Management Plan (DMP). IEEE DataPort now offers a feature to its Premium Institutional Subscribers that makes it quick and easy to create a DMP that will meet the funding agency requirements. Learn more about creating your data management plan through [IEEE DataPort](#).

## SSIT – Galileo Project



The search for extraterrestrial life is one of the most exciting frontiers in science. First tentative clues were identified close to Earth in the form of the unusual interstellar object 'Oumuamua' and Unidentified Aerial Phenomena (UAP) in the Earth's atmosphere. The recently announced "Galileo Project" ushers the new frontier of "space archeology" in search of extraterrestrial technological relics. This lecture will feature content from the speaker's books "Extraterrestrial" and textbook "Life in the Cosmos", both published in 2021, as well as material from his frequent commentaries.

**Register** today!

Newsletter Editor: Dr. Rhonda Farrell, [ieeer2rvc@gmail.com](mailto:ieeer2rvc@gmail.com), [www.ieee.org/r2](http://www.ieee.org/r2)

## IEEE ICFEC 2022

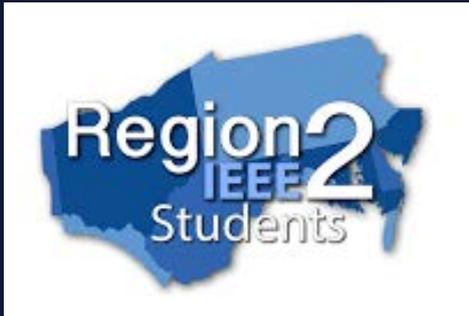


Billions of devices and sensors ranging from user gadgets to more complex The number of Internet-of-Things (IoT) devices is predicted to reach 38.6 billion by 2025. These connected devices, ranging from user devices to more complex systems, such as vehicles and power grids, are equipped with sensing, actuating, communication, processing, and storage capabilities, and they generate huge amounts of data of various types. However, the need to operate the scale of heterogeneous IoT devices while being performance-efficient in real-time is challenging. Typically, the data generated by the IoT devices are transferred to and processed centrally by services hosted on geographically distant clouds. This is untenable given the communication latency incurred and the ingress bandwidth demand.

A new and disruptive paradigm spear-headed by academics and industry experts is taking shape so that applications can leverage resources located at the edge of the network and along the continuum between the cloud and the edge. These edge resources may be geographically or in the network topology closer to IoT devices, such as home routers, gateways, or more substantial micro data centers. Edge resources may be used to offload selected services from the cloud to accelerate an application or to host edge-native applications. The paradigm within which the edge is harnessed is referred to as "Fog/Edge computing". **Register** today!

## IEEE R2 Student Activity Conference Planning

**Join Us** on 22 February 2022 @ 0730 for Planning for the 2022 Regional Student Activities Conference to be held April 22-24, 2022.



Sponsored by the **Baltimore Museum of Industry** (BMI) as one of their Maryland Engineering Challenges; and the Institute of Electrical and Electronic Engineers (IEEE), who developed the concept, the **Robot Challenge Event** will be held over two days in 2022: On Saturday, April 23, there will be a Virtual Event on Zoom, whereas on Sunday, April 24, 2022, the Event will be held in person, at the Baltimore Museum of Industry. Detailed information can be found [here](#). Contact: **Mr. Neville Jacobs**.



## DREXEL IEEE DragonHacks 2022



**Drexel IEEE** is pleased to share that we will be holding **DragonHacks**, our annual 24-hour **hackathon**, April 30th-May 1st, 2022!

At DragonHacks, participants have **24 hours to design and build a project/hack** and compete for a pool of amazing prizes! In addition to competing for prizes, participants also have the opportunity to:

- Attend workshops hosted by Drexel IEEE and companies alike aimed at helping learn new skills
- Interact and network with attending sponsors and other students
- Obtain free merch and swag
- Play games and have fun!

First time attending DragonHacks or a hackathon? Not a problem! In addition to the workshops mentioned above, if you're interested in working in a team we'll have team building activities before hacking begins at 1 PM to help you find a group! DragonHacks is open to all university students as well as high school students over the age of 18.

## Central Area

The Central Area covers the following IEEE R2 Sections:

- Central Pennsylvania
- Erie
- Johnstown
- Pittsburgh
- West Virginia
- Susquehanna



Chair: James A. Beck

## East Area

The East Area covers the following IEEE R2 Sections

- Philadelphia
- Southern New Jersey
- Lehigh Valley
- Delaware Bay



Chair : Joseph Burns



The 22nd Integrated Communications, Navigation and Surveillance Hybrid Conference (In-person & Virtual)



April 5-7, 2022  
Westin Washington Dulles Airport  
Herndon, Virginia, USA

## South Area

The South Area covers the following IEEE R2 Sections

- Baltimore
- Northern Virginia
- Washington D.C.

Chair: Don Herres



## West Area

The West Area covers the following IEEE R2 Sections

- Akron
- Cincinnati
- Cleveland
- Columbus
- Dayton
- Lima
- Youngstown



Chair: Chang Liu

Newsletter Editor: Dr. Rhonda Farrell, [ieeer2vc@gmail.com](mailto:ieeer2vc@gmail.com), [www.ieee.org/r2](http://www.ieee.org/r2)

# JOIN AN AFFINITY GROUP

# JOIN A COMMUNITY



Collaborate, Engage,  
and Follow Us in 2022



# SUPPORT OUR STUDENTS & ENTREPRENEURS

# ATTEND AN R2 EVENT



Newsletter Editor: Dr. Rhonda Farrell, [ieeer2rvc@gmail.com](mailto:ieeer2rvc@gmail.com), [www.ieee.org/r2](http://www.ieee.org/r2)