



Contents

- *Chair's Corner* 2
- *Report on First Annual IEEE Colloquium in Western Pennsylvania* 3
- *IEEE Robot Car Race 2025 - Call for Volunteers* 4
- *Pittsburgh Regional Science and Engineering Fair 2025 - Call for Judges* 4
- *Seeking Nominations for The Outstanding Volunteer of The Year Award* 5
- *IEEE Pittsburgh Section Outing to The National Museum of the US Air Force at Wright-Patterson AFB near Dayton, Ohio* 6

Editor: Philip Cox, p.e.cox@ieee.org; Contributors: James Beck, Tom Dionise, Jenna Price, and Kal Sen,

All announcements for publication in a particular month's bulletin are due to the Editor by the 20th of the previous month. The accuracy of the published material is not guaranteed. If there is any error, please bring it to the Editor's attention. The Section's web site, [webinabox Pittsburgh](http://webinabox.pittsburgh.org), has recent issues of the bulletin and lots of other useful information.

• *Chair's Corner*

Happy New Year to the members of the Pittsburgh Section of IEEE!

Welcome to a new year and a new leadership team. Once again, I thank you, the members, for choosing me to serve a second term as chair. Our treasurer this year will be Alexis Gorgacz and our secretary will be Jianan "Leo" Jian. Returning as vice chair is Greg Price. Thank you to Steve Mozelewski for running our election this year.

We are always looking for new members to join and we have open positions to the right in the box. We are also looking to reinvigorate activities with student members. Our student activities committee has been open for a while, so if you have interest in volunteering with students please let us know. These roles don't take much time but can be a great leadership experience as well as a connection to IEEE members for future career opportunities.

We have a full year of activities currently in planning. Keep an eye out on monthly bulletins to see what the next events are.

Looking forward to an active 2025!

Jenna Price

2025 Pittsburgh Chair

jprice@ieee.org

Section

Chair - Jenna Price, jprice@ieee.org

Vice Chair - Greg Price, gprice@ieee.org

Treasurer – Alexis Gorgacz, agorgacz@ieee.org

Asst. Treasurer – open

Secretary – Dr. Jianan (Leo) Jian, jj129@pitt.edu

Immediate Past Chair – Steve Mozelewski, Steve.Mozelewski@gmail.com

Special Events Chair – Dr. Kal Sen, senkk@ieee.org; Mey Sen, senml@ieee.org

Webmaster – Gerry Kumnik, g.kumnik@computer.org

UpperMon Subsection: Chair: Dr. Gianfranco Doretto, Gianfranco.Doretto@mail.wvu.edu

Chapters

Communications Society – Chair: Dr. Balaji Palanisamy, bpalan@pitt.edu; Vice Chair: Abdulrahman Alhaidari, ABA70@pitt.edu; Sec: Phil Cox

Computer Society – Chair: Vishal Rastogi, vishal.ras@gmail.com; Vice Chair: Ahmad P. Tafti, tafti.ahmad@pitt.edu

Education Society- Chair: Ahmed H Dallal, ahd12@pitt.edu

Electronics Packaging/Electron Devices Societies – Chair: John Mazurowski jsm23@arl.psu.edu

Engineering In Medicine & Biology Society
Chair: Steve Mozelewski, Steve.Mozelewski@gmail.com

Electromagnetic Compatibility Society - Chair: Mike Oliver

Magnetics Society – Chair: Dr. Simran Singh - simranjs@andrew.cmu.edu

Nanotechnology Society - Chair: Andrew Cochran, acochran@andrew.cmu.edu.

Power Electronics Society – Chair: Patrick Lewis, ptl7@ieee.org

Power & Energy & Industry Applications Societies
Chair: Martin London, mlondon@alumni.scu.edu;

Robotics Society – Chair: Ralph Sprang, rsprang@ieee.org

Signal Processing & Control Systems Societies – Chair: Danson Garcia P.E., dansongarcia@ieee.org; Vice Chair: Jesse Mahn, jesse.mahn@outlook.com

Society on Social Implications of Technology
Chair: open; Vice Chair: Joe Kalasky, P.E., j.kalasky@ieee.org
724-244-1609

Council of Electronic Design Automation Chair: Baris Taskin, taskin@coe.drexel.edu

Affinity Groups

Young Professionals (formerly GOLD) – Chair: Jesse Mahn, jesse.mahn@outlook.com

Women In Engineering – Chair: Alexis Gorgacz, agorgacz@ieee.org

Life Members: Joe Kalasky, P.E., j.kalasky@ieee.org

Committees

Consultant network: George Crawford, gwc2qwc2@gmail.com

Professional/Career Activities (PACE)
Chair: Joe Cioletti, P.E. jcioletti@ieee.org

Student Activities – Chair: Connor Watson, connor.watson@pitt.edu

Membership Development – Vishal Rastogi, vishal.ras@gmail.com

Publicity – Chair: Thomas Dionise, P.E.
ThomasJDionise@eaton.com

- **Report on First Annual IEEE Colloquium in Western Pennsylvania**

Saturday, 12/7, we held the first annual IEEE Colloquium in Western Pennsylvania. This was an all day, [IEEE Region 2](#) Central (Mid-Appalachian) Area-wide event, and it was hosted locally and coordinated by the [IEEE](#) Pittsburgh Section.

The event was well attended, with a mix of in-person and virtual attendees and presenters. Many thanks to [Kalyan Sen](#) for organizing a fantastic technical program, along with Mey Sen and Chuck Baker for helping to organize and facilitate the event.

Thanks also to our eight speakers who presented the following talks that covered a wide range of technical subjects:¶

1. Cloud Network Infrastructure, and Enhanced Cloud Network Performance and Reliability by BGP Optimization. Presented by: [Vinay Tripathi](#)
2. PR-TDR: Privacy-preserving and Reliable Timed Data Release. Presented by: Jingzhe Wang
3. Digital Twin-based Dynamic Task Assignment for Smart Home Maintenance. Presented by: [Abdulrahman Alhaidari](#)
4. IEEE Photonics Standards. Presented by [John Mazurowski](#)
5. Power Electronic Devices in Solid-State / Hybrid Circuit Breakers: Current Status and Future Trends. Presented by: [Aboubakr Salem](#)
6. Sizing Reactive Compensation for a Steel Plant to Support a New Descaler with Large Motors. Presented by [Thomas Dionise](#) and [Sam Morello, P.E.](#)
7. Opportunities and Challenges in Power Flow Control in a Modern Grid, and Commissioning the World's First Commercial-Grade Sen Transformer. Presented by [Kalyan Sen](#)¶





- ***IEEE Robot Car Race 2025 - Call for Volunteers***

IEEE will host the annual Robot Car Race called the IndEEE 500cm at Eaton Power System Experience Center on Saturday, February 22, 2025, in conjunction with Engineer's Week. Ten to twelve teams of 8th graders from local schools will build a robot car using Lego NXT kits and program it to negotiate a 500cm track with some challenges along the way. The Saturday program starts at noon and is over by 5 PM. Volunteers arrive around 10:00 AM to setup. We will hold workshops in January and February for volunteers to prepare for the race. If working with children, sharing your profession and explaining electrical concepts capture your interest, then consider volunteering for the IEEE Robot Car Race. Watch for more details in the January bulletin.

To volunteer to help with the Robot Car Race, just email tom.dionise@ieee.org, and you will be given more details and included in future mailings.

- ***Pittsburgh Regional Science and Engineering Fair 2025 - Call for Judges***

Once again, volunteers are needed to represent the IEEE Pittsburgh Section as Judges for our four Sponsor Awards at the 2025 Pittsburgh Regional Science and Engineering Fair (PSREF).

SAVE THE DATES – APRIL 1-2, 2025.

The 86th Annual Pittsburgh Regional Science & Engineering Fair (PRSEF), the third oldest science fair under the affiliation of the Society for Science, will be held April 1-2, 2025 at Carnegie Science Center. The IEEE Pittsburgh Section will again underwrite sponsor awards and members like you are needed to judge projects in the Junior, Intermediate and Senior levels. The goal of the PSREF coincides with one of the missions of the IEEE, that is to foster an interest in the engineering profession.



To volunteer to be an IEEE judge for PRSEF, just email tom.dionise@ieee.org, and you will be given information on registration and included in future mailings.

- **Seeking Nominations for The Outstanding Volunteer of The Year Award**

Dear members at large, we are seeking nominations for the 2025 IEEE Pittsburgh Section Outstanding Volunteer of the year award. This award seeks to honor an IEEE member or members who have demonstrated exemplary levels of dedication and service to IEEE in general and the Pittsburgh Section in particular over the 2024 calendar year. In order to qualify, the recipient must be an active IEEE member or student member volunteer that has contributed to IEEE in a demonstrable way. To nominate someone, please submit their name, IEEE number and a brief summary (250 words or less) highlighting their service and contributions in 2024. Nominations may be submitted via email to: jebeck@ieee.org. The cut-off date for nominations is March 31st, 2025. All nominations will be reviewed by the awards committee, and the recipient will be honored at the 2025 IEEE Pittsburgh Section's annual history and awards dinner which will be held next Spring (details to follow).

- **IEEE Pittsburgh Section Outing to The National Museum of the US Air Force at Wright-Patterson AFB near Dayton, Ohio**

Date: Saturday, May 31, 2025

Time: 6:00 AM: Departure, Panera Bread, Miracle Mile,
4172 William Penn Hwy, Monroeville, PA 15146.
10:00 PM: Return

Cost: \$40 per person

RSVP: Required at <https://events.vtools.ieee.org/m/456469>. These seats are available on a first-come-first-serve basis. If interested, please send an email to senkk@ieee.org and send your check in the amount of \$40 per person, payable to "IEEE Pittsburgh Section" to the following address: Mey Sen, 126 Pauline Drive, Monroeville, PA 15146.

Organizers: IEEE Pittsburgh Section



We are organizing an outing to *The National Museum of the US Air Force* at Wright-Patterson AFB near Dayton, Ohio. The event is open to the IEEE Pittsburgh Section's members and their guests and limited to the capacity (34 people) of the bus on a first-come-first-serve basis. The event is highly subsidized by the Section. If interested, please register at the vtools weblink above.

The museum, which is free to the public, is the world's largest military aviation museum. Here are just a few of the items on view: X-15 rocket plane, U2 and SR-71 spy planes, B-52 B-29 B17 and XB-70 bombers, F-22 F-111 P-51 fighters, Apollo Capsule, Soyuz capsule, as well as the Second Wright Flyer, and ICBMs, cruise missiles, strange prototypes and all of the Presidential Air Force Ones (except Reagan's) etc. All exhibits are located indoors. The museum features more than 350 aerospace vehicles and missiles and thousands of artifacts amid more than 19 acres of indoor exhibit space. The museum opened to the public on May 16, 1923 in Dayton Ohio and has now evolved to its fourth location which includes four buildings, a Missile Gallery, an Air Park and a Memorial Park. For further information, you may click on the following weblink at: <https://www.nationalmuseum.af.mil>.

2025 Calendar – Meetings of IEEE Pittsburgh Section

	Jan	Feb	Mar	Apr	May	June	July	August	Sept	Oct	Nov	Dec
<u>Executive Committee (AdCom)</u>	Virtual	Virtual	Virtual	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
<u>Section</u>		22 Robot Car Race		1 Science Fair	16-Awards dinner; 31- Museum		20 Picnic	22 Baseball				
<u>Communi- cations</u>												
<u>Computer</u>												
<u>EMBS</u>												
<u>EMCS</u>												
<u>Power Electronics</u>												
<u>PES/IAS</u>												
<u>Magnetics</u>												
<u>Nanotech- nology</u>												
<u>Robotics</u>												
<u>SPS/CSS</u>												
<u>EPS/ED</u>												
<u>Education</u>												
<u>Social Impl Technology Upper Mon</u>												
<u>Women in Eng'ing</u>												
<u>Young Pros</u>												
<u>Life Mem- bers</u>												
<u>PACE</u>												
<u>Student Act</u>												

* This meeting was not published in the Pittsburgh Bulletin