



THE IEEE NORTH JERSEY SECTION NEWSLETTER

VOL. 68, NO. 8

SEPTEMBER 2022

Message from the IEEE North Jersey Section Chair Dr. Ajay Poddar



It is September and once again our students and professors are all geared up to begin the new academic year. On that note, I would like to bring to your attention the following opportunities and announcements.

2022 IEEE Region 1 Micromouse Competition at MIT

MIT will be hosting the second [2022 Region 1 Micromouse Competition](#) on Saturday, October 1, 2022 at 6:00pm to 8:30pm. All IEEE Student Members and Graduate Student Members are eligible to participate. High School Students (non-IEEE Member) are also welcome to participate, but they need to attend a 30 minutes introduction session about IEEE and how IEEE can help them when they are an Undergraduate Student at a college. There is no registration fee to participate.

Whether your Micromouse is not fully function, or you have no Micromouse, you are welcome to participate.

To register: <https://forms.gle/ji38EXVR6ZTUYAF68>

For Micromouse design and competition guideline, please email Soon Wan at gimsoon@ieee.org

Besides the usual awards towards the fastest maze solvers, this year we are going to award the best Micromouse design. This contest will focus on the overall design as demonstrated by an oral presentation. Although there is no specific format required for the presentation, the following guidelines should be used for preparing for the presentation.

The team should plan to address the following points in the presentation:

- ❖ Overall design goals and strategies
- ❖ High level structure of the design (mechanical, control)
- ❖ Design choices for sub functions (locomotion, sensing, etc.)
- ❖ Overview of software
- ❖ Implementation and testing process and results
- ❖ Conclusions

We encourage groups to feature the most innovative part (coding, mechanical design, etc.) during the design presentation. You can give the Oral Presentation while running your Micromouse. Each presentation/Micromouse run will be 5 minutes, with another up to 5 minutes for questions.

The IEEE Region 1 Student Conference (StuCon) is the premier annual event where student branches from IEEE Region 1 - the eight Northeastern United States (CT, MA, ME, NH, NJ, NY, RI and VT) - meet to discuss mutual challenges

and to compete in regional competitions. Annually, the conference program included the Micromouse Competition.

For those who have not worked on Micromouse, and you are interested to develop one, you should start now. I know there is only about 3 weeks left to the competition. But, it is not too late to start the development. You are allowed to get a robot kit, and do your best to build and program your Micromouse to solve the maze. You should still consider to participate this year's competition even if your Micromouse is not fully functional, or not moving. There is a judging award for Best Design Micromouse and Innovative Program, and the Micromouse does not have to perform well in the maze. If you are an IEEE Student Branch Officer, and have an interesting activity or program that you want to incorporate with the 2022 and 2023 Region 1 Student Conference, please email IEEE Region 1 Student Activities Chair, Dr. Soon Wan at gimsoon@ieee.org.

2022 IEEE-HKN Student Leadership Conference

This three-day, [members-only conference](#) is IEEE-HKN's premier event for connecting with, learning from, and working beside HKN members from around the globe, scheduled from Oct 28-30, 2022, UNC Charlotte.

MGA Election Pilot

MGA has been working to simplify the Geographic Unit election process and is excited to announce we are ready to launch the 2022 Geographic Unit Election pilot. The pilot will run for the remainder of 2022, and is available to all Geographic Units (Sections, Chapters, Affinity Groups and Student Organizations). The purpose of the pilot is to provide tools and resources to our unit leaders to ensure the election process is quicker, easier to navigate and more efficient to execute a successful election. The election pilot includes:

- Simplified election process
- Shortened election timeline
- Nominations tool to help run your elections
- vTools voting tool
- Communication templates
- Election timeline planning tool

[Click here](#) to visit the pilot website, where you can sign up to participate and run your Geographic Unit Election! Should you have any questions in the meantime please don't hesitate to reach out to electionpilot@ieee.org for assistance.

Call for nominations: 2022 MGA Individual Awards

The submission deadline for MGA award is Sept 25, 2022. You can help recognize the efforts of outstanding volunteers by nominating individuals for one of the prestigious [IEEE Member and Geographic Activities \(MGA\) Awards Program](#). Each award has a unique mission and criteria and offers the

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PUBLICATION OF THE NORTH JERSEY SECTION OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

opportunity to honor distinguished colleagues, inspiring teachers, and corporate leaders.

If you know someone who has made substantial regional IEEE volunteer contributions through innovative projects, exemplary leadership, service, or by fulfilling the goals as related to transnational activities, consider nominating them for one of the following awards:

- MGA Larry K. Wilson Transnational Award
- IEEE MGA Diversity & Inclusion Award
- MGA Innovation Award
- MGA Leadership Award
- MGA Achievement Award
- MGA Young Professionals Achievement Award

Please visit the MGA Award nomination process to [review the nominator guidelines and eligibility requirements](#). MGA awards are peer-recognized awards; therefore, **self-nomination is not permitted**. The deadline to submit nominations is **25 September 2022**. A complete nomination form with two letters of endorsement by two IEEE members are required to be eligible.

Mew US Member Discount: Student loan refi discounts from SoFi

Students and their families may be concerned that rising interest rates could make their student loans more expensive. IEEE introduces a new member discount, applicable to those who borrow from private or government lenders for higher

education tuition expenses. With the new member discount from SoFi, members could save by taking advantage of a low fixed rate and IEEE members are also eligible to get an exclusive limited-time .375% rate discount (normally 0.25%). This offer is valid through 30 September 2022.

In addition, IEEE members may access exclusive bonuses on SoFi personal loans (\$200 bonus) and mortgages (\$500 bonus).

Visit SoFi.com/IEEE to view your student loan refinance rate today

Pre-University Volunteer STEM Portal

The STEM Portal is for IEEE Volunteers and serves as a resource for all things related to Pre-University STEM programs and activities. Here, you can share your STEM best practices and programs with IEEE's global community of volunteers, find inspiration from what others are doing, and utilize resources from this portal to develop or enhance your own programs. Watch the [STEM Portal Overview Video](#).

Our section will continue to support STEM activities and address humanitarian cause within the boundaries of the IEEE.

I would like to encourage everyone to find more opportunities to volunteer and contribute towards a worthy cause and benefit of the members and our community.

I wish all the members good health and a productive time ahead.

IEEE North Jersey Section Chair

Ajay Poddar

IEEE – IMPORTANT EVENTS, ARTICLES, ANNOUNCEMENTS AND REMINDERS:

- [This Month's Communications Society News from Around the World](#)
- [“Be an IEEE Mentor” - An article by Harry Roman for the September Newsletter](#)

Be an IEEE Mentor

As you advance in age, you naturally look back, remembering how you got where you are... also remembering the people that helped you get there. In my 36-years at PSEG, the big constant in my career was IEEE mentorship. My colleagues were IEEE Fellows and Senior Members. All young engineers were encouraged to become members, and to get involved in various societies and volunteer positions. Leaders liked to see us write papers every 1-2 years; and get valuable experience in presenting them at the big NYC winter power engineering society meetings. I also remember quite vividly, chairing photovoltaic paper sessions in NYC as well. My seminal IEEE thrill came when I was asked by one of my mentors to assume a position as a volunteer leader in developing IEEE continuing education products for members. Talk about a learning experience! I worked with terrific IEEE staff in Piscataway and met very talented national IEEE members who put together some fascinating educational products. It was a fabulous experience. More recently, IEEE-USA asked me to develop professional and educational E-Books for members. I have been writing and publishing many of these little books, as well as numerous articles before that. This experience is so exciting for me, to be able to see my works in colorful print, and have members purchase and use these low cost, 20-page volumes.

When I attended our annual North Jersey section awards celebration in May, I cannot help but reminisce about my long IEEE membership; and I must add, I think about the IEEE colleagues who have passed. Joining IEEE and participating in its many activities has been such a bright star in my professional career. Be an IEEE mentor and volunteer. You will make a difference!

Talk to you again soon...

Harry

Harry T. Roman: Life Senior Member (htroman49@aol.com)

(Author & Advisor, Edison Innovation Foundation), (Retired-PSE&G Co.),

You do not have to be an IEEE member but prior registration is encouraged to attend any event. [IEEE North Jersey Section Website](#) [The Section Executive Committee Roster](#)



GRADUATE SCHOOL VIRTUAL OPEN HOUSE!

Wednesday, September 21, 2022, 5 p.m.

Fairleigh Dickinson University

Gildart Haase School of Computer Sciences & Engineering (GHSCSE)

Cybersecurity Leadership: "National Center of Academic Excellence for Cyber Defense Education (CAE-CDE)" by NSA

18 cutting-edge labs, among the best in the North and Mid-Atlantic Regions

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- *Electrical Engineering
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- *Computer Engineering
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Scan Zoom Registration



Scan Grad Program Info



Past Month's Events – August 2022 Events

Date	Event Title, Hosts and other Details
03 August 2022 06:30 PM to 08:30 PM	IEEE North Jersey Section EXCOM - Zoom Meeting 6:30 PM Sponsor/Co-Sponsors: North Jersey Section Location: vTools Registration Link , Zoom Meeting Link Meeting ID: 890 6781 1667 Contact: Ajay Poddar (akpoddar@ieee.org), Adriaan van Wijngaarden (avw@ieee.org), Hong Zhao (zhao@fd.edu)
09 August 2022 12:00 PM to 01:00 PM	Fast Solvers for Electromagnetics-Based Analysis and Design of Integrated Circuits and Systems Sponsor/Co-Sponsors: North Jersey Section Location: vTools: Event Link , External Registration Link Contact: Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org), Edip Niver (edip.niver@njit.edu), Durga Misra (dmisra@njit.edu), Naresh Chand (chandnaresh@gmail.com), Ionel Bajescu (nelu108@yahoo.com), Speakers: Dan Jiao of Purdue University, Lafayette

You do not have to be an IEEE member but prior registration is encouraged to attend any event. [IEEE North Jersey Section Website](#) [The Section Executive Committee Roster](#)



THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.

IEEE NORTH JERSEY SECTION

MTT-Society and AP-Society Joint Chapter
PRESENTS

36th ANNUAL SYMPOSIUM AND MINI-SHOW

FOCUS:

SELECTED TOPICS IN RF AND MICROWAVE TECHNOLOGIES FOR COMMERCIAL AND
MILITARY APPLICATIONS

DATE: THURSDAY OCTOBER 6, 2022

PLACE: Hanover Manor, 16 Eagle Rock Ave., E. Hanover, NJ 07936. Ph#973-992-7425

SCHEDULE OF EVENTS

9:00 AM TO 4:30 PM

TECHNICAL SESSIONS

10 –12 LECTURES FEATURING SPEAKERS FROM LEADING
COMPANIES, WITH EMPHASIS ON MILITARY ELECTRONICS,
WIRELESS TECHNOLOGIES AND MICROWAVE COMMUNICATIONS.

MINI SHOW FEATURING LATEST PRODUCTS
(APPX. 30-40 EXHIBITORS)

(COMPLIMENTARY LUNCH SERVED)

Details of the schedule and speakers and the topics will be posted on the [IEEE North Jersey Section](#) Home page by the end of September 2022.

Registration:

For further information contact:

CHAIR - GENERAL-EXHIBITION: Kirit Dixit (201-669-7599), kdixit@ieee.org

CHAIR – TECHNICAL PROGRAMS: George Kannell(973-261-1421), george.kannell@gd-ms.com

EVENT/ LOCATION CO-ORDINATOR: Ken Oexle k.oexle@verizon.net

CO-CHAIR – TECHNICAL PROGRAMS : Har Dayal , dayalhar@gmail.com

AP-S/MTTS CHAPTER Co -CHAIR: Dr. Anisha Apte, Dr. Edip Niver

SECTION CHAIR: Dr. Ajay Poddar, akpoddar@synergymwave.com

NOTE: Appropriate Covid-19 Precautions will be announced as required at the time.

THERE IS NO CHARGE TO ATTEND THE SYMPOSIUM OR SHOW.

Calendar of Events

Current Events

Date	Event Title, Hosts and other Details
07 Sep 2022 06:30 PM to 08:30 PM	<p>IEEE North Jersey Section EXCOM - Zoom Meeting 6:30 PM September 7th, 2022</p> <p>Sponsor/Co-Sponsors: North Jersey Section</p> <p>Location: vTools Registration Link, Zoom Meeting Link Meeting ID: 890 6781 1667</p> <p>Contact: Ajay Poddar (akpoddar@ieee.org), Adriaan van Wijngaarden (avw@ieee.org), Hong Zhao (zhao@fdu.edu)</p>
13 Sept 2022 12:00 PM to 01:00 PM	<p>Challenges and Opportunities in Beyond-5G and 6G Communication</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter, AP03/MTT17, CAS04/, ED15, PHO036, VT06, SIGHT177</p> <p>Location: vTools - Link to External Registration, Virtual Meeting Link – sent to the registrants</p> <p>Contact: Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org), Edip Niver (edip.niver@njit.edu), Durga Misra (dmisra@njit.edu), Naresh Chand (chandnaresh@gmail.com), Ionel Bajescu (nelu108@yahoo.com),</p> <p>Speakers: Dr. Ulf Gustavsson of Ericsson Research. Sweden</p>
14 Sept 2022 12:00 PM to 01:00 PM	<p>Exploring and Exploiting High-dimensional Phenomena in Statistical Learning and Inference</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter, SP01, C16, AP03/MTT17</p> <p>Location: vTools Registration Link, Zoom Meeting Link Meeting ID: 967 6606 9472 M105, Muscarelle Center, FDU, 1000 River Road, Teaneck, NJ 07666</p> <p>Contact: Alfredo Tan (tan@fdu.edu), Hong Zhao (zhao@fdu.edu)</p> <p>Speaker: Dr. Yue M. Lu of John A. Paulson School of Engineering and Applied Sciences, Harvard University</p>
15 Sep 2022 06:00 PM to 07:15 PM	<p>Internet of Things: Applications, Enablers, Security</p> <p>Sponsor/Co-Sponsors: New Jersey Coast Section Chapter COM19, New York Section Chapter COM1 - North Jersey Section Chapter, COM19, Buffalo Section Chapter-COM19, Chicago Section Chapter COM19, Washington Section Chapter COM19, Atlanta Section Chapter, COM19, Maine Section Chapter, C16/COM19, North Jersey Section Jt Chapter, AP03/MTT17, Baltimore Section Chapter COM19, Central Texas Sect Jt. Chap. COM19/SP01/CT08 Austin, Houston Section Chapter, COM19</p> <p>Location: vTools Registration Link, Zoom Meeting Link – Will be sent to the registrants</p> <p>Contact: Amit Patel (a.j.patel@ieee.org), patluri@att.com, zpeng@ccny.cuny.edu, jmmoskal@ieee.org, smida@uic.edu, siering@ieee.org, syed.tamseel@ieee.org, anna.romaniuk@gmail.com, lee.gaspard@ieee.org, uptonj@husson.edu, F.behmann@ieee.org.</p> <p>Speakers: Dr. Manu Malek of IEEE New Jersey Coast Section</p>
17 Sep 2022 01:00 PM to 5:30 PM	<p>IEEE NJACS-2022: 10th Annual IEEE North Jersey Advanced Communications Symposium (Theme: AI and Deep Learning) (Zoom)</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter, C16, VT06, AP03/MTT17, COM 19, AES10 North Jersey/New York Jt Section Chapter IT12, Metro Sec. Act. Council</p> <p>Location: Required: vTools Registration Link, Zoom Meeting Link - Meeting ID: 506 875 4099</p> <p>Contact: Adriaan van Wijngaarden (avw@ieee.org), Amit Patel (a.j.patel@ieee.org), Yu-Dong Yao (yyao@stevens.edu), Hong Zhao (zhao@fdu.edu), Cherif Chibane (cherif.chibane@gmail.com), Michael Newell (mike.msnewell2000@yahoo.com)</p> <p>Speakers: Dr. Paul Ratazzi, Air Force Research Laboratory, Prof. Tao Han, NJIT, Prof. Huaxia Wang, Oklahoma State University, Prof. Yudi Dong, University of Hartford</p>

20 Sept. 2022 02:00 PM to 03:00 PM	<p>Mastering EVM: Fundamentals</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter, AP03/MTT17, CAS04/, ED15, PHO036, VT06, SIGHT177</p> <p>Location: Virtual Event Link, External Meeting/Registration Link</p> <p>Contact: Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org), Edip Niver (edip.niver@njit.edu), Durga Misra (dmisra@njit.edu), Naresh Chand (chandnaresh@gmail.com), Ionel Bajescu (nelu108@yahoo.com),</p> <p>Speakers: Paul Denisowski of Rohde & Schwarz</p>
22 Sept. 2022 06:30 PM to 08:30 PM	<p>Introduction to Mechanical Design Using FreeCAD</p> <p>Sponsor/Co-Sponsors: North Jersey Section CN</p> <p>Location: vTools Registration Link, External Meeting/Registration Link</p> <p>Contact: Jay Morreale (info@technologyontap.org)</p> <p>Speakers: George Vella-Coleiro, (Retired Physicist - Bell Laboratories)</p>
28 Sept. 2022 02:00 PM to 03:00 PM	<p>112 Gbps PAM4 Front Panel Connectivity - Real World Implementation and Correlation</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter, AP03/MTT17, CAS04/, ED15, PHO036, VT06, SIGHT177</p> <p>Location: vTools - External Event Link, External Meeting/Registration Link</p> <p>Contact: Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org), Edip Niver (edip.niver@njit.edu), Durga Misra (dmisra@njit.edu), Naresh Chand (chandnaresh@gmail.com), Ionel Bajescu (nelu108@yahoo.com),</p> <p>Speakers: Greg Vaught of Rohde & Schwarz</p>
03 Oct 2022 07:00 PM to 08:30 PM	<p>Radar Technology Systems – An Introduction</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapters AES10, COM19, CS23, Jt Chapter, AP03/MTT17, San Diego Section Chapter, AES10,</p> <p>Location: vTools Registration Link, Zoom Meeting Link - Meeting ID: 859 4212 2032 (Passcode: see vTools pg.)</p> <p>Contact: Cherif Chibane (cherif.chibane@ieee.org), Amit Patel (a.j.patel@ieee.org), Dave (dave@aurestech.com), Kramer (kramer@sandiego.edu), Anisha Apte (anisha_apte@ieee.org)</p> <p>Speakers: Seng Hong, PhD., Senior Technical advisor, Licensed PE, Adjunct Professor</p>
06 Oct 2022 09:00 AM to 04:30 PM	<p>36th ANNUAL SYMPOSIUM AND MINI-SHOW</p> <p>CH01092 - North Jersey Section Jt Chapter, AP03/MTT17</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter SP01, C16</p> <p>Location: Hanover Manor, 16 Eagle Rock Ave. E. Hanover, NJ 07936, vTools Registration Link,</p> <p>Contact: Kirit Dixit (kdixit@ieee.org), Ajay Poddar (akpoddar@ieee.org), Har Dayal (dayal.har@gmail.com)</p> <p>Speakers: Multiple Speakers – All Day Event</p>
12 Oct 2022 12:00 PM to 07:30 PM	<p>MR Image Reconstruction as a Computational Imaging Problem: From Model-Based Reconstruction and Sparsity to Machine Learning</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter SP01, C16</p> <p>Location: vTools Registration Link, Zoom Meeting Link - Meeting ID: 938 1582 6146</p> <p>Contact: Alfredo Tan (tan@fdu.edu), Hong Zhao (zhao@fdu.edu)</p> <p>Speakers: Dr. Mariya Doneva of Philips Research, Hamburg, Germany</p>
27 Oct. 2022 12:00 PM to 05:00 PM	<p>Towards the 100% clean energy future – How can IEEE Help?</p> <p>Sponsor/Co-Sponsors: North Jersey Section Affinity Group LM</p> <p>Location: Hanover Manor, 16 Eagle Rock Ave. E. Hanover, NJ 07936, vTools Registration Link</p> <p>Contact: Mike Miller (millerm@ieee.org), Ronald Quade (rwquade@ieee.org), Ken Oexle (k.oexle@verizon.net)</p> <p>Speakers: Mousa, Ahmed of IEEE</p>

You do not have to be an IEEE member but prior registration is encouraged to attend any event. [IEEE North Jersey Section Website](#) [The Section Executive Committee Roster](#)

2022 IEEE North Jersey Section Volunteers

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First Vice-Chair – Hong Zhao
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Second Vice-Chair – Emad Farag
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Secretary – Adriaan J. van Wijngaarden
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Treasurer – Avimanyou Vatsa
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Anisha Apte – anisha_apte@ieee.org

Junior Past Chair – Yu-Dong Yao

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Senior Past Chair – Kalyan Mondal
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Society Chapters

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Antennas and Propagation / Microwave Theory and Techniques

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Co-Chair – Edip Niver niver@adm.njit.edu

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Computer

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Computational Intelligence Society

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Electromagnetic Compatibility/Product Safety Engineering

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Systems, Man, and Cybernetics

Chair – Mengchu Zhou
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Technology & Engineering Management

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Vehicular Technology

Chair – Ionel Bajescu nelu108@yahoo.com

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Young Professionals

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Co-Chair – Reena Dahle
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Co-Chair – Michael Miller
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Nanotechnology Council

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North Jersey SIGHT Group

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Co-Chair – Mani Iyer
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Awards & Recognitions

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Co-Chair – Adriaan J. van Wijngaarden
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Educational Activities

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Co-Chair – Naresh Chand
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Government and Industrial Liaisons

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Co-Chair – Russell C. Pepe
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Group coordinator / History

Chair – Howard Leach
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Legal Activities

Chair – Vacant

Membership Development

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MTT/AP Trade Show and Symposium

Chair – Kirit Dixit
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Vice-Chair – Har Dayal
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TPC Co-Chair – Ajay Poddar
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Newsletter

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Nominations and Appointments

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Durga Misra dmisra@njit.edu

PACE

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Co-Chair – Paul E. Ward
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Program Review Committee

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Hong Zhao – zhao@fdu.edu

Emad Farag – enfarag@ieee.org

Student Activities

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Student Representative Committee

Chair – Kalyan Mondal mondal@fdu.edu

Webmaster

Co-Chair – Adriaan J. van Wijngaarden
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Co-Chair – Avimanyou Vatsa
avatsa@fdu.edu

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