



THE IEEE NORTH JERSEY SECTION NEWSLETTER

VOL. 68, NO. 9

OCTOBER 2022

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



With the onset of October and changes in the season, I hope everyone is enjoying the good weather while they can. As everyone is busy with most activities in full swing, I would like to bring to your attention the following opportunities and announcements.

Seeking Nominations for the 2024/2025 R1 Director Elect
The Call for Nominations for the 2024/2025 R1 Director-Elect is now Open! Are you ready for the greatest IEEE leadership challenge of your career? IEEE Region 1 will be electing the 2024/2025 Region 1 Director-Elect during the 2023 IEEE elections and we are searching for a few excellent candidates. If you are interested in serving as the Region 1 Director, or wish to nominate a qualified colleague, contact Bala Prasanna, Chair of the IEEE Region 1 Nominations Committee, and complete a candidate nomination package by **October 15, 2022**. The subject line of the email must read "IEEE Region 1 Director Elect Nomination Enclosed". The complete nomination package by **October 15, 2022** must include the [nomination form](#).

EPICS in IEEE Access and Abilities Competition
More than 15 percent of the global population (about 1 billion people) live with disabilities, such as hearing, vision, mental health, or mobility impairments. The EPICS in IEEE committee is proud to announce the launch of a competition that challenges university students from all over the world to use their engineering skills to help solve accessibility issues within their communities. Proposals should identify an accessibility problem in the local community, and detail how the student team will attempt to solve the problem using engineering and technology skills. Student teams can win US\$5,000-10,000 to build their prototype or solution! Proposal Submission Deadline: November 1st, 2022. Detail information can be found here: <https://epics.ieee.org/access-and-abilities-competition/>, you can write email to Jordanna Coyle, Sr. Governance & Project Mgmt. Administrator, email ID: <j.m.coyle@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.

2023 IEEE AP-S Student Design Contest
[2023 IEEE AP-S Student Design Contest \(contentsharing.net\)](#)
Join the 14th IEEE Antennas and Propagation Society (AP-S) Student Design Contest! Design and build reconfigurable

intelligent surfaces. The top 6 teams will receive travel funds to attend the IEEE Antennas and Propagation Symposium in Portland, Oregon, USA, July 23–28, 2023 to demonstrate their working systems. 1st, 2nd, and 3rd place winners will be announced at the 2023 IEEE AP-S Awards Presentation at the conference and will receive cash awards of US \$1,500, \$750, and \$250, respectively. Important deadlines (see next page) are December 31, 2022, and May 13, 2023. Send all questions and materials to designcontest2023@ieeeaps.org with the subject line "2023 IEEE AP-S Design Contest." Messages without this subject line may not be received. All submitted materials must be in PDF format according to the guidelines.

IEEE North Jersey Section Seeks Committee Chairs and Section Volunteers

The IEEE North Jersey Section is seeking new volunteers to help conduct business for the benefit of its membership. There are a variety of volunteer positions open and available. They range from technical to non-technical, leadership or just participatory. A list of IEEE North Jersey Societies, Chapters, Groups and Committees are published at the end of the newsletter for those interested in participating. If you would like to become involved with volunteering in some of these efforts or positions or just become more informed about what is happening at the North Jersey Section, please contact Nominations Committee chair, Dr. Durga Misra at dmisra@ieee.org. You are welcome to attend the Section's executive committee meeting held the first Wednesday of every month to learn more about volunteer activities that require some help. Additionally, if interested volunteers would like to get more general information about the section, including a complete listing of all chapters and committees, visit the North Jersey section website <https://r1.ieee.org/northjersey> or contact the committee members listed at the end of newsletter.

Buyer's Edge Shopping IEEE - North Jersey Group # 1431
The IEEE North Jersey Section is now a Member of the Buyer's Edge Shopping Service. The Buyer's Edge is a buying service that guarantees the lowest prices on major purchases for its 4 million members in the tristate area of NY, NJ, CT and greater Philadelphia. They offer Buy-Online as well as, Buy-In-Person. Many member benefits are available nationally, like Cars, Furniture and Kitchens; whereas, some benefits, like Appliances, are for the tristate area only. It is easy to use the services of the Buyer's Club. Visit the Web Site at: <http://www.buyersedgeinc.com> then, enter the following login information: Username: 1431, Password: member1. Happy shopping. N

Buyer's Edge Shopping IEEE METSAC-The IEEE METSAC Group #1592 offers discount for buying electronics,

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](#)



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

car, phone and many goods advertised, North Jersey section Members can take benefit of these discounts of the Buyer’s Edge Shopping Service. Visit at

[Buyer's Edge Inc. - Buyer's Edge Inc. - Official Website \(buyersedgeinc.com\)](#), Username: 1592 Password: member1

Please click the link for [IEEE Member Discounts](#).

Check out these IEEE Day Discounts:

- US\$30* off IEEE membership for 2023 for those applying as higher grade members. Use code **IEEEEDAY2230** at checkout. Click on the image below to learn more about IEEE membership or to join, using one of these special membership offers.
- Free [IEEE Electron Devices Society](#) membership for any individual who join or renew their IEEE membership for 2023. Use code **TRYEDS2023** at checkout (offer valid 1-15 October 2022).
- IEEE Women in Affinity Group members who wish to join the IEEE Electron Devices Society pay only \$1 for IEEE Electron Devices Society membership for 2023. Use code **EDSWIE2023** at checkout (offer valid 1-15 October 2022)
- [IEEE Reliability Society](#) is offering one of the following courses (at no cost) for IEEE members (professionals and students)
 - Artificial Intelligence (Assurance)
 - Rethinking Software Fault Tolerance
 - Software Fault Injection Testing
 - The Fundamental Theory Behind the Internet of Things (IOT)
- To learn more about the courses, click [here](#) use code **RSIEEEEDAYILNCOURSE** to take advantage of this offer
- 50% off [IEEE Signal Processing Society](#) Essential and Preferred packages for Professional members – use code **IEEEEDAY22SP50** at checkout (offer valid 1-15 October 2022)
- 50% off [IEEE Signal Processing Society](#) Preferred Packages for Student members – use code **IEEEEDAY22SPSTU50** at checkout (offer valid 1-15 October 2022)
- Free [IEEE Solid State Circuits Society](#) membership for all individuals who join or renew their IEEE membership for 2023 – use code **IEEEEDAYSSCS2022** at checkout (offer valid 1 -18 October 2022)
- **Special IEEE Day eLearning Offer: 10 courses for US\$10 each (+ more!) on the IEEE Learning Network** – Learn something new and grow your expertise in a variety of emerging technologies such as AI, 5G, Blockchain, with additional eLearning content featuring IEEE Academies, English for Technical Professionals, and

more! Use the special IEEE Day code ILNIEEEDAY22 at checkout by 31 October 2022. [View the courses](#) and start learning today!



I am happy to share that the 36th Annual AP/MTT Mini Symposium held at the Hanover Manor, was very well received. With eminent speakers delivering high-quality technical talks and exhibitors showcasing their state-of-the-art products, with over 200 attendees at the event, the overall event was a great success. Some glimpses of the event can be seen in Figures 1-4

It is my pleasure to announce that our section is the recipient of the MGA award, “2022 Section Membership Recruitment and Retention Performance”.



Fig 1: Section Recognition



Fig 2: Audience

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](#)



Fig 3. Registration Booth



Fig. 4: Exhibition Hall

Nominations: IEEE North Jersey Section Executive Committee Officers Slate for 2023-2024

The IEEE North Jersey Section is managed by an Executive Committee (ExCom) consisting of Elected Officers, the Section's Chapter and Affinity Group Chairs, Student representatives, appointed Committee Chairs, and the Junior and Senior Past-Chairs. The Section Chair chairs the Section's organizational meetings and represents the Section as a voting member in the IEEE Region 1 Board of Governor meetings. The Vice-Chairs assist the Chair in the coordination of all Section activities, and chair Section meetings at the request of the Chair or in the absence of the Chair. The duties of the Secretary include correspondence, and record-keeping of the Section's meeting minutes, mailing notices, and the submission of the meeting and officer reports. The duties of the Treasurer include the development of a Section budget for approval by the Section, accounting of all Section funds, maintenance of the Section's financial records, and the submission of the Section's financial operations report to IEEE Headquarters. The duties of the three Members-at-Large include the support of the Section's operations, the assistance of the Chair, Secretary, and Treasurer, the organization of Section activities, and the assessment of project proposals.

In response to the monthly Calls for Nominations as of October 2022, the IEEE North Jersey Section Nomination Committee has received nominations for the Section's Elected Section Officer positions for the 2023-2024 term.

IEEE North Jersey Section Nomination & Appointment Committee, Chair Dr. Durgamadhab Misra, Member-Dr. Kalyan Mondal and Dr. Yu-Dong Yao prepared the slate for 2023-2024 IEEE North Jersey Section ExCom Members.

The names of the proposed officers are given below:

- (1) Chair-Dr. Hong Zhao, FDU
- (2) Vice-Chair 1-Dr. Emad Farag, Bell Nokia
- (3) Vice-Chair 2- Dr. Anisha Apte, Synergy
- (4) Treasurer - Dr. Avimanyou Vatsa, FDU
- (5) Secretary-Dr. Adriaan Wijngaarden, Bell Nokia
- (6) Members at Large 1: Naresh Chand
- (7) Members at Large 2: Har Dayal
- (8) Members at Large 3: Kirit Dixit

Nominating Committee, individual voting members eligible to vote in such an election may nominate candidates by petition. In accordance with IEEE Bylaw I-307.17, the number of signatures required on a petition shall be determined as follows. For all positions where the electorate is less than 30,000 voting members, signatures shall be required from 2% of the eligible voters. The petition shall be completed by Nov. 20, 2022. Please feel free to contact Prof. Durga Misra, IEEE North Jersey Nomination Committee Chair (dmisra@njit.edu), if you have any questions.

If you're interested in serving in any of the above positions, please contact Nominations Committee chair, Dr. Durga Misra at dmisra@njit.edu for the consideration and inclusion in above slate.

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.

- Ajay Poddar, IEEE North Jersey Section Chair

IEEE – IMPORTANT EVENTS, ARTICLES, ANNOUNCEMENTS AND REMINDERS:



GRADUATE SCHOOL VIRTUAL OPEN HOUSE!

Wednesday, October 19, 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

Offers 6 Masters of Science (MS) Programs

<p>*Cybersecurity & Information Assurance</p> <p>*Electrical Engineering</p> <p>*E-Commerce</p>	<p>*Management Information Systems</p> <p>*Computer Engineering</p> <p>*Computer Science (Data Science, Cloud Computing and more)</p>
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Scan Zoom Registration



Scan Grad Program Info





- [This Month's Communications Society News from Around the World](#)
- ["Why Not an Energy Mix?" - An article by Harry Roman for the October Newsletter](#)

Why Not an Energy Mix?

Here is our current energy mix, expressed as prime energy consumption by source for 2020 [source: U.S. EIA]. Petroleum-35%, Natural Gas-34%, Coal-10%, Nuclear-9%, Renewables-12%.

Of the 12% renewables portion; approximately 22% is hydroelectric, 26% is wind, 11% is solar, 39% is biomass, and 2% is geothermal. Steeping back to 2005, the energy mix looked like this: Petroleum-40%, Natural Gas-22%, Coal-23%, Nuclear-8%, Renewables 7%.

The U.S. Energy Information Administration [U.S. EIA] baseline forecast projects that overall US energy consumption will increase by approximately 17 per cent between 2020 and 2050 because of increasing population and economic growth. Driven by incentives and falling technology costs, U.S. EIA forecasts the share of solar and to a lesser extent wind will increase from about 5 per cent in 2020 to 13 per cent in 2050. Meanwhile, the share of petroleum and natural gas will remain flat at 36 and 34 per cent, respectively, or a combined 70 per cent of total energy consumption in 2050. It would appear, oil and gas will retain the lion's share status of the energy mix for at least the next 30 years. However, keep in mind these projections reflect "only existing climate law" and assume no changes to current policy moving forward.

We have always had diversity in our energy sources in the past, so why not into the future? Yes, we do use lots of oil and gas; but its value, to national security, and to our economy is well known - and we have ample reserves of the resources. Getting rid of oil and gas and stridently pushing for sun and wind to replace it does not seem to have diversity uppermost in mind. Why must the energy source arguments be either this or that in nature? Why not a strategic mix of energy sources?

My long-time studies, of the energy history of the U.S., indicates it takes decades to make significant changes in the energy sources being used in our energy mix. We must be patient. Political edicts over serious discussions and debates can only lead to regrets later!

Talk to you again soon...

- Harry

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

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

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Calendar of Events

Current Events

Date	Event Title, Hosts and other Details
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>
11 Oct 2022 12:00 PM to 01:00 PM	<p>Power Beaming & Space Solar</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter AP03/MTT17</p> <p>Location: vTools External Registration Link, Virtual Meeting Link</p> <p>Contact: Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org), Edip Niver (edip.niver@njit.edu)</p> <p>Speakers: Dr. Paul Jaffe of U.S. Naval Research Laboratory</p>
12 Oct 2022 12:00 PM to 01:00 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, AP03/MTT17</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>
18 Oct 2022 02:00 PM to 03:00 PM	<p>Mastering EVM: Optimizing your test setup</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter AP03/MTT17</p> <p>Location: vTools External Registration Link, Virtual Meeting Link</p> <p>Contact: Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org), Edip Niver (edip.niver@njit.edu)</p> <p>Speakers: Martin Lim of Rohde & Schwarz</p>
19 Oct 2022 06:00 PM to 08:00 PM	<p>IEEE Day PACE SIGHT Computer Chapter: Adapting Technology to Promote Stimulation and Engagement for Older Adults and People Living with Dementia</p> <p>Sponsor/Co-Sponsors: New Jersey Coast Section IM09/C16, SIGHT119, North Jersey Section Chapter SIGHT177</p> <p>Location: vTools Registration Link, Virtual Meeting Link will be available upon registrants only</p> <p>Contact: Kit August (kit.august@gmail.com), Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org)</p> <p>Speakers: Paula Muller, Founder of Sociavi</p>

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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 Location: Greek Taverna, 292 Broomfield Avenue, Montclair, NJ 07042, Parking is free and more than adequate. vTools Registration Link Contact: Mike Miller (millerm@ieee.org), Ronald Quade (rwquade@ieee.org), Ken Oexle (k.oexle@verizon.net) Speakers: Mousa, Ahmed of IEEE</p>
27 Oct. 2022 01:00 PM to 02:00 PM	<p>Rethink 5G testing – how to implement the ultimate 5G device experience for suitable use cases and markets</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter, AP03/MTT17, CAS04/, ED15, PHO036, VT06, SIGHT177 Location: vTools External Registration Link, Virtual Meeting 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: Tim Seyler of Rohde & Schwarz</p>
27 Oct. 2022 06:30 PM to 08:30 PM	<p>Open Source Chip Design</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter, CNNNJ Location: vTools External Registration Link, Virtual Meeting Link will be available after registration Contact: Jay Morreale (info@technologyontap.org) Speakers: Mehdi Saligane Research Scientist ECE Dept. at the University of Michigan.</p>
28 Oct. 2022 09:00 AM to 02:00 PM	<p>Protection And Control of Power Transformers</p> <p>Sponsor/Co-Sponsors: North Jersey Section PE31, AP03/MTT17 Location: Auditorium, PSE&G - Hadley Road Facility, 4000 Hadley Road, South Plainfield, NJ 07080, vTools Registration Link Contact: Mike Miller (millerm@ieee.org), Ronald Quade (rwquade@ieee.org), Ken Oexle (k.oexle@verizon.net) Speakers: Dr. Murty Yalla of Beckwith Electric</p>
01 Nov 2022 09:00 AM to 03:00 PM	<p>RF Fundamentals-Full Day Seminar</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter AP03/MTT17 Location: vTools External Registration Link, DoubleTree Somerset, Bldg. 200 Atrium Dr., Somerset, NJ 08873 Contact: Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org), Edip Niver (edip.niver@njit.edu) Speakers: Experts from Rohde & Schwarz will give lectures on the Basics of RF & MW</p>
02 Nov 2022 06:30 PM to 08:30 PM	<p>IEEE North Jersey Section EXCOM - Zoom Meeting 6:30 PM November 2nd, 2022</p> <p>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@fdu.edu)</p>
08 Nov 2022 12:00 PM to 01:00 PM	<p>Automotive Radar - From First Efforts to Future Systems</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter AP03/MTT17 Location: vTools External Registration Link, Virtual Meeting Link Contact: Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org), Edip Niver (edip.niver@njit.edu) Speakers: Dr. Ing. Christian Waldschmidt of University Ulm</p>

Past Month's Events – September 2022 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 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@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 Location: vTools - Link to External Registration, Virtual Meeting Link – sent to the registrants 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: 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 Location: vTools Registration Link, Zoom Meeting Link Meeting ID: 967 6606 9472 M105, Muscarelle Center, FDU, 1000 River Road, Teaneck, NJ 07666 Contact: Alfredo Tan (tan@fdu.edu), Hong Zhao (zhao@fdu.edu) Speaker: Dr. Yue M. Lu of John A. Paulson School of Engineering and Applied Sciences, Harvard University</p>
15 Sept. 2022 03:00 PM to 05:00 PM	<p>PRAKASH SHAKTI (PHOTONICS): Opportunities and Challenges for Atma-Nirbhar Bharat</p> <p>Sponsor/Co-Sponsors: R10 UP Section PHO36 and R1 North Jersey Section Chapter PHO36, AP03/MTT17, Location: ABLT-1 Hall, Annie Besant Lecture Theater, IIT(BHU), Varanasi, Uttar Pradesh, India 221005 vTools Registration Link Contact: Naresh Chand (chandnaresh@gmail.com), Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org), Speakers: Dr. Naresh Chand, (Retired) Director R&D Center of Huawei Technologies, NJ, USA</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 Location: vTools Registration Link, Zoom Meeting Link – Will be sent to the registrants Contact: Amit Patel (a.j.patel@ieee.org), patluri@att.com, zpeng@ccny.cuny.edu, jmmskal@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. Speakers: Dr. Manu Malek of IEEE New Jersey Coast Section</p>

16 Sept. 2022 01:30 PM to 08:30 PM	<p>PRAKASH SHAKTI (PHOTONICS): Opportunities and Challenges for Atma-Nirbhar Bharat</p> <p>Sponsor/Co-Sponsors: R10 UP Section PHO36 and R1 North Jersey Section Chapter PHO36, AP03/MTT17, Location: IIT Prayagraj, Building: CC3, Room No. 5156, Uttar Pradesh, India 211015 vTools Registration Link Contact: Naresh Chand (chandnaresh@gmail.com), Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org), Speakers: Dr. Naresh Chand, (Retired) Director R&D Center of Huawei Technologies, NJ, USA</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 Location: Required: vTools Registration Link, Zoom Meeting Link - Meeting ID: 506 875 4099 Contact: Adriaan van Wijngaarden (avw@ieee.org), Amit Patel (a.j.patel@ieee.org), Yu-Dong Yao (yyao@stevens.edu), Hong Zhao (zhao@fd.edu), Cherif Chibane (cherif.chibane@gmail.com), Michael Newell (mike_msnewell2000@yahoo.com) 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>
19 Sept. 2022 03:30 PM to 05:30 PM	<p>PRAKASH SHAKTI (PHOTONICS): Opportunities and Challenges for Atma-Nirbhar Bharat</p> <p>Sponsor/Co-Sponsors: R10 UP Section PHO36 and R1 North Jersey Section Chapter PHO36, AP03/MTT17, Location: Amity University Lucknow Campus, Lucknow, Uttar Pradesh, India vTools Registration Link Contact: Naresh Chand (chandnaresh@gmail.com), Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org), Speakers: Dr. Naresh Chand, (Retired) Director R&D Center of Huawei Technologies, NJ, USA</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 Location: Virtual Event Link, External Meeting/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: 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 Location: vTools Registration Link, External Meeting/Registration Link Contact: Jay Morreale (info@technologyontap.org) Speakers: George Vella-Coleiro, (Retired Physicist - Bell Laboratories)</p>
26 Sept. 2022 04:00 PM to 05:00 PM	<p>A look at a novel Antenna design</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter, AP03/MTT17, SIGHT177 Location: Virtual Event Link provided to registrants, vTools Registration Link Contact: Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org), Edip Niver (edip.niver@njit.edu), Speakers: Dr. Ulrich L. Rohde</p>

27 Sept. 2022 01:00 PM to 02:00 PM	<p>Instrument Fundamentals: Understanding Benchtop Power Supplies</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter, AP03/MTT17, CAS04/, ED15, PHO036, VT06, SIGHT177</p> <p>Location: Virtual Event Link, vTools External Registration Link</p> <p>Contact: Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org), Edip Niver (edip.niver@njit.edu),</p> <p>Speakers: Paul Denisowski of Rohde & Schwarz</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>
28 Sept. 2022 03:00 PM to 04:00 PM	<p>Tuning an Electrically Short Antenna for Field Operation</p> <p>Sponsor/Co-Sponsors: North Jersey Section Chapter, AP03/MTT17, SIGHT177</p> <p>Location: Virtual Event Link provided to registrants, vTools Registration Link</p> <p>Contact: Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org), Edip Niver (edip.niver@njit.edu),</p> <p>Speakers: Dr. Ulrich L. Rohde</p>
29 Sept. 2022 05:00 PM to 07:00 PM	<p>IEEE R1 and IEEE R10 Joint Collaboration Events: Photonics and Optical Communication Networks</p> <p>Sponsor/Co-Sponsors: R10 UP Section PHO36 and R1 North Jersey Section Chapter PHO36, AP03/MTT17,</p> <p>Location: BITS Pilani, Campus (bits-pilani.ac.in) EE Department, Vidya Vihar, Pilani, Rajasthan India 333031</p> <p>vTools Registration Link</p> <p>Contact: Naresh Chand (chandnaresh@gmail.com), Ajay Poddar (akpoddar@ieee.org), Anisha Apte (anisha_apte@ieee.org),</p> <p>Speakers: Dr. Naresh Chand, (Retired) Director R&D Center of Huawei Technologies, NJ, USA</p>
30 Sept. 2022 09:00 AM to 02:00 PM	<p>Stationary Battery Evolutions in Standards, Use Cases and Technologies</p> <p>Sponsor/Co-Sponsors: North Jersey Section Affinity Group PES / IAS / LM Joint Meeting</p> <p>Location: Auditorium, PSE&G - Hadley Road Facility, 4000 Hadley Road, South Plainfield, NJ 07080, vTools Registration Link</p> <p>Contact: Ronald Quade (rwquade@ieee.org), Ken Oexle (k.oexle@verizon.net), Mike Miller (millerm@ieee.org)</p> <p>Speakers: Howard Gartland of Mesa Technical Associates, Stephen Vechy of Concentric</p>

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