



THE IEEE NORTH JERSEY SECTION NEWSLETTER

VOL. 68, NO. 7

AUGUST 2022

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

I hope everyone is staying safe and well while enjoying the summer break.

I am happy to see that our North Jersey Section is continuing to have many successful in-person events.

The "IEEE SHE in ECE" event held at NJIT was very well attended and was a great success with several activities held during this all-day event. I want to thank Prof. Durga Misra for this initiative and also for providing a detailed report of the event, which is posted in this newsletter.

On another note, our North Jersey Section Joint AP/MTT chapter has become the recipient of the first place "AP-S Best Chapter Award" for 2022. The Award ceremony was held during the AP-S flagship conference, the 2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting in the "Mile High City" of Denver, Colorado, on July 13th, 2022.



Fig. 1: IEEE North Jersey Section AP/MTT chapter is the recipient of the 2022 AP-S Best Chapter Award

Dr. Anisha Apte represented the joint chapter by presenting the chapter activity report at the Chapter Chair/AP-S SIGHT and COPE joint meeting.

The 10th Annual IEEE North Jersey Advanced Communications Symposium (NJACS-2022) will be held online (Zoom), on **Saturday, September 17, 2022**. The symposium consists of several keynote presentations. The symposium program will cover advanced topics in AI, big data, machine learning, deep learning, and applications.

Registration Required:

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](#)

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<https://events.vtools.ieee.org/m/320639>

This event has limited seating and registration is required. Registration will close once the event reaches capacity.

CEUs (continuing education units) are available for this event with a separate fee of \$5.00.

Please pay \$5.00 when registering and then contact Ben at ben.meyer@ieee.org for additional information about CEU certificates.

This symposium is being organized by the IEEE North Jersey Section and its Communications, Computer, Information Theory and Vehicular Technology Chapters. Technical support is provided by IEEE METSAC.

The 36th IEEE North Jersey Section AP/MTT- Joint Chapter Annual Symposium and Mini-Show is scheduled to be held in-person on the 6th of October at the Hanover Manor. Stay tuned for the updates.

We look forward to many more successful events in the months to come. We have several events in the coming weeks, and our officers and volunteers are working hard towards making these events possible to be held in-person.

We will be posting the details of the upcoming events. Please stay tuned through our newsletter as well as eNotice and vTools announcements.

IEEE AP-S Ulrich L. Rohde Humanitarian Project Award Call for Proposal

IEEE AP-S SIGHT are currently offering a **special Call for Proposals to support AP-S Chapter projects** that utilize AP-S-relevant technology to address local community challenges. The Call is open through 15 June 2022. Ulrich L. Rohde Humanitarian Project Awards of up to US\$10,000 will be made to selected projects on pressing issues challenging an underserved community. For detail information, contact Dr. Anisha Apte (anisha_apte@ieee.org), member AP-S SIGHT and elected IEEE AP-S AdCom member, 2022-2024.

Our section will continue to support STEM activities and promote DEI 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:**IEEE SHE in ECE Event**

- A report by Prof. Durga Misra

On July 22, 2022, a “One-Day Summer Camp for Female High School Students”, was hosted at NJIT from 8:30 AM to 3:30 PM, to encourage female students to join engineering, especially in electrical engineering and computer engineering. The theme was “Soaring High-powered Excellence” i.e., SHE in IEEE and SHE in Electrical and Computer Engineering (ECE).

More than 75 girls entering 9th to 12th grades from the local high schools attended the event, that included several minority students. Students were welcomed by Prof. Durga Misra, Chapter Chair of EDS/CASS Chapter of North Jersey Section. He emphasized the financial sponsorship of IEEE Electron Device Society and IEEE Circuit and Systems Society.

The morning panel session included the faculty panel, industry panel and student panel, in addition to a hands-on activity by the girls. The faculty panelists were Prof. Xuan Liu of ECE, Prof. Ratna Raj of ECE and Prof. Janice Daniels, Associate Dean for Research in Newark College of Engineering and it was moderated by Ms. Ryoko Mathes. The faculty panel advised the student on Career Development.

The industry panelists were Ms. Chitra Venkatraman, retired Telecommunications Engineer from Nokia; IEEE North Jersey Section Pre-University chair, WiE co-chair, Dr. Reena Dahle, Senior RF Scientist of Metamagnetics Inc; IEEE North Jersey Section WiE Co-Chair, Dr. Anisha Apte, Sr. Design Engineer at Synergy Microwave Corporation; IEEE AP-S AdCom member, AP-S COPE Committee Vice-chair-2, IEEE North Jersey section AP/MTT Vice-chair and SIGHT group Co-chair, and Dr. Charlotte Blair, Technical Manager, Ansys, IEEE Region-1 coordinator, and was moderated by Prof. Ratna Raj. The panelists described about the IEEE Women in Engineering and IEEE TRY Engineering programs in addition to how the female engineers make highly positive impact at industrial workspace.

Ms. Dimana Kornegay of NJIT’s admission guided the senior students for the application process. The hands-on activity was guided by Dr. Byron Chen, Director of Labs of ECE Department.

The students were given the *Snap Circuits MyHome Plus* from Elenco Electronics and a multimeter to set up the activity. After lunch the students were divided into four groups for visit to MakerSpace, ECE Labs, Campus Tours and “Ask Anything” to the student panel, which was managed by Ms. Anushreya Ghosh, Ms. Jehan Salabi and Ms. Cori Frockowiak.

An excellent breakfast and a stupendous lunch were served to the attendees. The entire project was managed by Ms. Teri Bass and Ms. Ryoko Mathes of ECE Department of NJIT. The news about this event can also be found on the NJIT website <https://news.njit.edu/campus-event-inspires-high-school-girls-study-electrical-engineering>



Faculty Panel



Selecting ECE



Hands-on Activity



Industry Panel



Picture Time



Student Panel

You do not have to be an IEEE member but prior registration is encouraged to attend any event. [IEEE North Jersey Section Website](https://www.njit.edu/~eece/IEEE) [The Section Executive Committee Roster](#)



GRADUATE SCHOOL VIRTUAL OPEN HOUSE!

Wednesday, August 24, 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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Scan Zoom Registration



Scan Grad Program Info



- **This Month's Communications Society News from Around the World**
- **"What Would You Say" - An article by Harry Roman for the May Newsletter**

What Would You Say?

So.... what would you tell them? The students I mean. What would you tell them about engineering?

Would you describe what engineers have done over the centuries, perhaps emphasizing how the profession dates back to ancient times, the wonders of the world, and the carving out of civilization? Maybe you would show pictures of the great aqueducts of Italy; or images of great buildings of the past; or possibly the majestic pyramids as well.

In modern times you might show photos of the great bridges we use every day or images of rocket ships blasting off to the Moon; or simply hold up a cell phone and discuss how it connects to the world's galactic library, where everyone can browse the stacks electronically. There are so many examples.

The point here is how many of us talk to students about engineering, exciting them to the creativity, invention, and excitement of turning raw ideas into real products and services? When was the last time you visited a school, or talked to an IEEE student section? Have you brought one of your inventions to a class of engineering students to have them comment and discuss what you accomplished?

Would you mention how the "engineering design process", so central to the STEM education curriculum today, is the heart and soul of the engineer's daily routine -- and is essentially what Thomas Edison did all the time in his invention factory?

Might you emphasize how employers prize the robust application of engineering principles and creative thought, more than the specific subjects that were taken -- process over content. Would you tell them of your career - the high points, and the low ones too? What would you say about engineering? When do you plan to next visit with students?

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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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 <http://www.ieee.org/go/njsection> by 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

APS/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

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

Calendar of Events

Current 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@fdu.edu)
14 Sept 2022 12:00 PM to 01:00 PM	Exploring and Exploiting High-dimensional Phenomena in Statistical Learning and Inference Sponsor/Co-Sponsors: North Jersey Section Chapter, SP01, C16 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
17 Sept 2022 01:00 PM to 04:30 PM	The 10th Annual IEEE North Jersey Advanced Communications Symposium (NJACS-2022) Sponsor/Co-Sponsors: North Jersey Section Chapters, C16, IT12, VT06, AP03/MTT17, COM 19, AES10, METSAC Location: vTools/External Registration Link , Zoom Meeting Link Meeting ID: 506 875 4099 Stevens Institute of Technology, Hoboken, NJ Contact: Yu-Dong Yao (yyao@stevens.edu), Adriaan van Wijngaarden (avw@ieee.org) Speaker: Multi- speakers' event
22 Sept. 2022 06:30 PM to 08:30 PM	Introduction to Mechanical Design Using FreeCAD 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)
6 Oct 2022 12:00 PM to 07:30 PM	AP/MTT 36th Annual Symposium and Mini-Show Sponsor/Co-Sponsors: North Jersey Section Chapter AP03/MTT17 Location: Hanover Manor, 16 Eagle Rock Ave., E. Hanover, NJ 07936 (Ph# 973-992-7425) Contact: Kirit Dixit (kdixit@ieee.org), George Kannell (george.kannell@gd-ms.com) Speakers: Multi-Speakers
12 Oct 2022 12:00 PM to 07:30 PM	MR Image Reconstruction as a Computational Imaging Problem: From Model-Based Reconstruction and Sparsity to Machine Learning Sponsor/Co-Sponsors: North Jersey Section Chapter SP01, C16 Location: vTools Registration Link , Zoom Meeting Link - Meeting ID: 938 1582 6146 Contact: Alfredo Tan (tan@fdu.edu), Hong Zhao (zhao@fdu.edu) Speakers: Dr. Mariya Doneva of Philips Research, Hamburg, Germany

Past Month's Events – May 2022 Events

Date	Event Title, Hosts and other Details
01 Jun 2022 06:00 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)
14 Jun 2022 12:00 PM to 01:00 PM	Reconfigurable Acoustic-Wave-Resonator-Based RF filtering Architectures for the Next Generation of Multifunctional Wireless Systems Sponsor/Co-Sponsors: North Jersey Section, and Jt Chapter, AP03/MTT17, CAS04/ED15, SIGHT177 PHO36, VT06 Location: vTools Registration Link, External Meeting/Registration Link Contact: Ajay Poddar (akpoddar@ieee.org), Durga Misra (dmisra@njit.edu), Edip Niver (edip.niver@njit.edu), Anisha Apte (anisha_apte@ieee.org) Speakers: Prof. Dimitra Psychogiou of Department of ECE, Texas Tech University, USA
16 Jun 2022 06:00 PM to 07:30 PM	History and Future of Radar and EW (Virtual Lecture) Sponsor/Co-Sponsors: North Jersey Section Jt Chapter AP03/MTT17, Long Island Section Chapters CAS04, SP01 Location: vTools Registration Link, Zoom Meeting Link - To be provided to registered attendees Contact: Ajay Poddar (akpoddar@ieee.org), Colotti (colotti@telephonics.com), JD (jd_professor@yahoo.com) Speakers: Lorenzo Lo Monte, PhD
26 Jun 2022 09:00 AM to 12:00 PM	Advanced FPGA technologies short course Session 1 hosted at Tizi Ouzou U. Algeria Sponsor/Co-Sponsors: North Jersey Section, Chapter AES10 Location: vTools Registration Link, Zoom Meeting Link Meeting ID: 885 5038 3394 Contact: Cherif Chibane (cherif.chibane@ieee.org) Speakers: Prof. Cherif Chibane of AuresTech Inc.
27 Jun 2022 09:00 AM to 12:00 PM	Advanced FPGA technologies short course Session 2 hosted at Tizi Ouzou U. Algeria Sponsor/Co-Sponsors: North Jersey Section Chapter AES10 Location: vTools Registration Link, Zoom Meeting Link Meeting ID: 885 5038 3394 Contact: Cherif Chibane (cherif.chibane@ieee.org) Speakers: Prof. Cherif Chibane of AuresTech Inc.
28 Jun 2022 09:00 AM to 12:00 PM	Advanced FPGA technologies short course Session 3 hosted at Tizi Ouzou U. Algeria Sponsor/Co-Sponsors: North Jersey Section Chapter AES10 Location: vTools Registration Link, Zoom Meeting Link Meeting ID: 885 5038 3394 Contact: Cherif Chibane (cherif.chibane@ieee.org) Speakers: Prof. Cherif Chibane of AuresTech Inc.

28 Jun 2022 05:00 PM to 07:30 PM	Nikola Tesla – The Pioneer who Paved the Road to the Electrical World as We Know It Sponsor/Co-Sponsors: North Jersey Section Jt Chapter AP03/MTT17, CAS04/ED15, AES10, VT06, SIGHT177 Location: ECEC-202, 154 Summit Street, Newark, NJ 07102, Click here for Map, vTools Registration Link, Contact: Ajay Poddar (akpoddar@ieee.org), Durga Misra (dmisra@njit.edu), Edip Niver (edip.niver@njit.edu), Anisha Apte (anisha_apte@ieee.org) Speakers: Prof. James K. Breakall of Penn State University Dr. Georg Karawas
29 Jun 2022 12:00 PM to 02:00 PM	Nikola Tesla – The Pioneer who Paved the Road to the Electrical World as We Know it-2 Sponsor/Co-Sponsors: North Jersey Section Jt Chapter AP03/MTT17, CAS04/ED15, AES10, VT06, SIGHT177 Location: 201, McLean Boulevard, Paterson, NJ 07504, vTools Registration Link, Contact: Ajay Poddar (akpoddar@ieee.org), Durga Misra (dmisra@njit.edu), Edip Niver (edip.niver@njit.edu), Anisha Apte (anisha_apte@ieee.org) Speakers: Prof. James K. Breakall of Penn State University Dr. Georg Karawas
07 Jul 2022 05:00 PM to 06:30 PM	Absorptive Frequency-Selective Structures - AP-S DL Talk Sponsor/Co-Sponsors: North Jersey Section Jt Chapter AP03/MTT17, SIGHT177, CAS04/ED15 Location: ECEC-202, 161 Warren Street, Newark, NJ 07102, Click here for Map, vTools Registration Link Contact: Ajay Poddar (akpoddar@ieee.org), Durga Misra (dmisra@njit.edu), Edip Niver (edip.niver@njit.edu), Anisha Apte (anisha_apte@ieee.org) Speakers: Prof. Zhongxiang Shen of School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore
22 Jul 2022 08:30 AM to 05:00 PM	One-Day Summer Camp for Female High School Students: SHE in ECE Sponsor/Co-Sponsors: North Jersey Section Jt Chapter CAS04/ED15, AP03/MTT17, SIGHT177, WiE Location: vTools Registration Link, Link to External Registration Meeting ID: 890 6781 1667 Contact: Durga Misra (dmisra@njit.edu), Ajay Poddar (akpoddar@ieee.org), Edip Niver (edip.niver@njit.edu), Anisha Apte (anisha_apte@ieee.org) Speakers: Multi-Speakers event
28 Jul 2022 06:30 PM To 08:30 PM	The Top Ten Causes of Failure for Technology Startups – And How You Can Help Your Clients Avoid Them Sponsor/Co-Sponsors: North Jersey Section Affinity Group CN Location: Zoom link will be sent to registrants External Registration Link Contact: Jay Morreale (info@technologyontap.org) Speakers: Phil Crowley - Business and Technology Lawyer

2022 IEEE North Jersey Section Volunteers

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Chair – Ajay K. Poddar
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Durga Misra dmisra@njit.edu

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Emad Farag – enfarag@ieee.org

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Webmaster

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avw@ieee.org

Co-Chair – Avimanyou Vatsa
avatsa@fdu.edu

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