



THE IEEE NORTH JERSEY SECTION NEWSLETTER

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



As the month of October begins, it is reassuring to see that many schools have opened for the fall session with in-person instruction while some are still functioning in the hybrid method. Nevertheless, as a humanity, we all have come a long way in these trying times of the COVID-19 global pandemic. Strides have been made in making the vaccine available and at the same time medicines and diagnostic methods for treating and testing patients have developed rapidly. Some sense of normalcy seems to have returned, while everyone is adapting to the new normal and keeping up with the guidelines and regulations in an effort to keeping this pandemic at bay.

Our North Jersey Section is no different. As the weather begins to become cooler, we decided to host an outdoor event, and take a break from the online meetings being held for more than the past eighteen months. The North Jersey Section and its Membership Development, Students, YP, WiE and all Chapters gathered together at the Lewis Morris Park, in Morristown, New Jersey, on Sunday, September 26th 2021, The event was published on vTools at [North Jersey Section Membership and Engagement, YP, WiE and Picnic - Lewis Morris Park, Sugarloaf A Shelter : vTools Events \(ieee.org\)](#).



Fig. 1: Members of the IEEE North Jersey Section at the Outdoor Event
Members enjoyed the outdoors and volunteered to organize food and other arrangements. About 80 members attended the event, and though it is not possible to share all the photos here, a group photo taken at the event is seen in Fig. 1. A formal discussion was organized by the Section Chair Dr. Ajay Poddar where the chapter officers and members shared about all the interesting activities that all the different chapters have been involved in during the pandemic, and the new initiatives were also discussed, a glimpse can be seen in Fig.2.

Several student members also attended and benefited from the event. Our section was pleased to invite and host Region-1 dignitaries from our neighboring sections, and Prof. Ali Abedi, and Bala Prasanna were happy to join the event and to get to know more about the vibrant North Jersey section.



Fig. 2: Section Members, Guests, Students - Interaction and Discussion
The 35th AP/MTT Joint Chapter Annual Symposium and Mini-Show was successfully held in-person at the Hanover Manor in East Hanover, New Jersey, after the break taken in 2020 due to the guidelines imposed during the Covid-19 Pandemic situation. The vTools link for the event: [35th ANNUAL SYMPOSIUM AND MINI-SHOW: North Jersey Section Jt Chapter, AP03/MTT17](#)



Fig. 3: Technical Session in progress at the Hanover Manor, NJ



Fig. 4: Plaques Presented to the Speakers at the Symposium

Fig. 3 shows the technical session in progress and Fig.4 shows the display of the plaques that the speakers of the day were presented. Several industry sponsors made their presence at the event with a display of the products in the exhibit hall, as

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seen in Fig. 5. Lunch and refreshments were served to all the attendees.



Fig. 5: Exhibition and Banquet Hall

IEEE AP-S President Prof. Yahia Antar, IEEE AP-S SIGHT chair Dr. Jawad Siddiqui, and IEEE MTT-S 2022 President Elect. Prof. Rashaunda Henderson, Dr. Clinton Andrews, IEEE SSIT President, were some of the speakers at the event.



Fig 6: From Left: George Kannell, Jawad Siddiqui, Anisha Apte, Rashaunda Henderson, Yahia Antar, Har Dayal, Kirit Dixit, Ken Oexle, Naresh Chand, Ajay Poddar, Ulrich Rohde, Richard Snyder, Prasenjit Bhadra

All in all, the North Jersey Section is making successful attempts in beginning to host in-person events in an effort to bring some sense of normalcy during this global pandemic.

Get Involved with IEEE HAC/SIGHT

Important Dates & Upcoming Virtual Events

- **25 October** - IEEE HAC panel, “Leveraging a Global Network of Technologists to Address Local Challenges in the Face of a Pandemic” at **The Global Sustainable Technology & Innovation Community (G-STIC) Conference**
- **10 November** - The first-ever **IEEE HAC Global Summit** will serve as a platform to bring together IEEE members, leaders from a variety of IEEE entities, and representatives from external partners in the sustainable development space to exhibit the breadth and width of HAC engagement, showcase grassroots HAC/SIGHT

projects, and contribute to the global discussion on the application of humanitarian technology to address local challenges.

Visit the HAC/SIGHT **calendar** for more humanitarian technology events and activities (all virtual for now). Call for Proposals to support IEEE member grassroots humanitarian technology and sustainable development goals. Please visit the HAC website (<https://bit.ly/HACSIGHTCfp2021>) for more details.

IEEE AP-S Ulrich L. Rohde Humanitarian Technical Field Projects-Award

Call for proposals: The proposal consisting of details of the project and budget can be submitted to IEEE AP-S SIGHT committee Chair Dr. Jawad Siddiqui (jys.rpe@gmail.com) and IEEE HAC Inter-Society Group Chair Dr. Ajay Poddar (akpoddar@ieee.org).

Deadlines: September 30, 2021.

The Project selection process is in line with IEEE SIGHT and Humanitarian Activity Committee Project Awards. The evaluation of proposals will be based primarily on technical content. After completion of the project, the awards committee will explore follow-up activities for low-cost production of the proposed technology, which is the key requirement for humanitarian needs. The announcement of the award will be made at the annual awards ceremony of the IEEE AP-S flagship conference. The recipient will receive a plaque and a \$10,000 cash prize for the completion of the project. The name(s) of the award recipient(s) will be published in *IEEE Antennas and Propagation Magazine* and on the IEEE AP-S website.

Detailed information available at IEEE AP-S SIGHT (<https://www.ieeeaps.org/committees/ieee-aps-sight>).

New Funding Opportunity

IEEE AP-S SIGHT, AP-S COPE, and IEEE HAC are jointly hosting a special call for proposals for AP-S Members. Awards of up to US\$3,000 will be made to selected projects that present a convincing plan to a) understand the real needs of a local community or local stakeholder organization and b) complete in no more than six months' time a pilot project utilizing AP-S relevant technology to address those local community challenges.

The last day to submit an application is 30 October 2021.

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

Best Wishes,

Ajay Poddar

IEEE North Jersey Section Chair



GRADUATE SCHOOL VIRTUAL OPEN HOUSE!

Wednesday, October 20, 2021, 7 p.m.

Fairleigh Dickinson University's Gildart Haase School of Computer Sciences & Engineering (GHSCSE)

- **A national leader in Cybersecurity, designated as a "Center of Academic Excellence for Cyber Defense Education" by NSA and DHS**
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For Programs information, visit: <https://tinyurl.com/GHprogram>

IEEE – IMPORTANT EVENTS, ARTICLES, ANNOUNCEMENTS AND REMINDERS:

- **[This Month's Communications Society News from Around the World](#)**
- **[35TH ANNUAL SYMPOSIUM AND MINI-SHOW \(AP/MTT-s\)](#)**
- **["10 Vehicle Stats to Ponder"](#) - An article by Harry Roman for the October Newsletter**

Calendar of Events

October Events

Date and Time	Event Details
01 Oct 2021 09:00 AM to 11:00 AM	<p>Distribution Voltage Regulation Seminar - Parts 3 & 4: North Jersey Section Chapter, PE31 (PES / IAS / LM Joint Meeting)</p> <p>Location: Required - vTools Registration link, GoToMeeting Link:</p> <p>Contact: Ronald Quade: rwquade@ieee.org</p> <p>Speaker: Bob McFetridge of Beckwith Electric</p>
05 Oct 2021 10:00 AM to 11:10 AM	<p>IEEE Northern Jersey Section, SMC Chapter Seminar on Domain Adaptation via Enhanced Subspace Distribution Matching and Generative Adversarial Distribution Matching: North Jersey Section Chapter, SMC28</p> <p>Location: Required - vTools Registration link</p> <p>(Hybrid Event) Building ECEC Room Number: 207, 323 MLK Blvd. Newark, NJ 07102</p> <p>Contact: Prof. Mengchu Zhou: zhou@njit.edu</p> <p>Speaker: Siya Yao</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



THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.
NORTH JERSEY SECTION
MTT-Society & AP-Society Joint Chapters PRESENTS

35th ANNUAL SYMPOSIUM AND MINI-SHOW

THURSDAY OCTOBER 7, 2021

Hanover Manor, 16 Eagle Rock Ave., East Hanover, NJ 07936. 973-992-7425

MINI SHOW FEATURING LATEST PRODUCTS - (9:30 AM TO 4:30 PM)
TECHNICAL SESSIONS (8:50AM to 5:00 PM)

Time	Topic	Speakers	Title	Affiliation
8:50	Opening Remarks	George Kannell	Technical Chair IEEE MTT/AP	GDMS
9:00-10:00	Public Roles for Technical Experts	Dr. Clinton Andrews	President, IEEE SSIT	Rutgers University
10:00	BREAKFAST BREAK - MINI SHOW EXHIBITION			
10:30-11:00	Multi-Functional UWB Filtering Antennas With Complementary Bandpass and Bandstop Response	Dr. Jawad Siddiqui	Associate Professor	University of Calcutta, India, Royal Military College Canada
11:00-11:30	Integration and Packaging Strategies for Millimeter-Wave CMOS	Dr. Rashaunda Henderson	2022 MTT-S President Elect Associate Professor	University of Texas
11:30-12:00	Advancements and future trends in Modern Antenna Systems for Communications and Sensors	Dr. Yahia Antar	President IEEE AP Professor	Royal Military College of Canada & Queen's University
12:00	LUNCH			
1:00-1:30	Timing and Frequency Distribution using optical fiber	George Conway Jay Darish	Senior Staff Engineers	Linear Photonics
1:30-2:30	Terahertz chip-scale systems	Dr Kaushik Sengupta	Associate Professor Director of IMRL Lab	Princeton University
2:30	BREAK - MINI SHOW EXHIBITION			
3:00-3:30	Understanding Quantum Computing for RF Engineers	Mark Elo	US National Sales Manager	Tabor Electronics
3:30-4:00	TFLE-Thin Film Lumped Elements Filters and Transition Time Converters (TTC) Solutions	Rafi Hershtig	Chief Technology Officer	K&L Microwave
4:00-4:30	Modular Implementation of the latest RFSoC chip from Xilinx	Bob Muro	Embedded Systems AE	Pentek Systems
4:30-5:00	High Power Energy Weapon Systems	Matt Dressner	FAE	Wireless Telecom Group
5:00	Closing remarks	Kirit Dixit	Chair AP/MTT Mini Symposium	Microcom Sales

Registration is on-site. Section Home page: <http://sites.ieee.org/northjersey/>

ALL ARE WELCOME (IEEE Membership not required). REGISTRATION IS ON-SITE
THERE IS NO CHARGE TO ATTEND THE SYMPOSIUM OR SHOW.
COMPLEMENTARY BREAKFAST / LUNCH INCLUDED FOR ALL.
Attendees will be required to sign a statement indicating full vaccination.
Masks are mandatory except during consumption.

FOR FURTHER INFORMATION

General Event Chair	Kirit Dixit	201-669-7599	kdixit@microcomsales.com
Technical Program Chair	George Kannell	973-261-1421	george.kannell@gd-ms.com
Event Vice Chair	Ken Oexle		k.oexle@ieee.org
Event Vice Chair	Har Dayal	973-628-7394	dayalhar@gmail.com
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Event Coordinator:	Howard Leach		h.leach@ieee.org
NNJ Section Chair	Dr. Ajay Poddar	201-560-3806	akpoddar@ieee.org
Chapter Vice Chair	Professor Edip Niver	973-596-3542	edip.niver@njit.edu

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Past Month's Events

Date and Time	Event Details
01 Sep 2021 06:30 PM	IEEE North Jersey Section - EXCOM - Zoom: North Jersey Section
04 Sep 2021 06:00 PM	Review of Humanitarian Technology Projects: North Jersey Section Jt Chapters, AP03/MTT17
04 Sep 2021 09:30 PM	COPE Projects: Application of Microwave and Antenna Technology for Humanitarian Applications: North Jersey Section Jt Chapters, AP03/MTT17
06 Sep 2021 07:00 PM	Antenna Design: Workshop and STEM Program: North Jersey Section Jt Chapters, AP03/MTT17
08 Sep 2021 07:00 PM	COPE PROJECTS: Workshop and STEM Program: North Jersey Section Jt Chapters, AP03/MTT17
09 Sep 2021 02:00 PM	USB 3.2 Compliance Testing: North Jersey Section Jt Chapters, AP03/MTT17
09 Sep 2021 02:00 PM	USB 3.2 Compliance Testing: North Jersey Section Jt Chapters, AP03/MTT17
14 Sep 2021 09:00 AM	Modelling-Based Characterization of Materials for Application in 5G and Energy Sectors: North Jersey Section Jt Chapters, AP03/MTT17
14 Sep 2021 11:30 AM	Utility of the Future - Virtual - NNJ Section - LM Group UPDATED ZOOM DETAILS: North Jersey Section Affinity Group, LM
14 Sep 2021 11:30 AM	Utility of the Future - Virtual - NNJ Section - PES / IAS: North Jersey Section Affinity Group, LM
15 Sep 2021 08:45 AM	Engineer's day celebration by WiE Affinity Group: North Jersey Section Affinity Group, YP
15 Sep 2021 02:00 PM	IEEE Student Membership: North Jersey Section Chapter, C16
17 Sep 2021 09:00 AM	Distribution Voltage Regulation Seminar - Parts 1 & 2: North Jersey Section Chapter, PE31
18 Sep 2021 01:00 PM	9th Annual IEEE North Jersey Advanced Communications Symposium (NJACS-2021) (Theme: AI and Deep Learning) (Zoom): North Jersey Section Chapter, C16
20 Sep 2021 06:00 PM	Who Wants To be an Engineer? North Jersey Section Affinity Group, WIE
26 Sep 2021 12:00 PM	North Jersey Section Membership and Engagement, YP, WiE and Picnic - Lewis Morris Park, Sugarloaf A Shelter: North Jersey Section
27 Sep 2021 09:30 AM	IEEE DAY 2021: Building a Career in Photonics and Available IEEE Resources: North Jersey Section

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