



THE IEEE NORTH JERSEY SECTION NEWSLETTER

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MARCH 2023



Message from the IEEE North Jersey Section Chair Prof. Hong Zhao

IEEE North Jersey Section continues to serve our local members with seminars, senior and student membership drive, consultant network events, and supporting student activities. More events are coming in March.

The IEEE North Jersey Section is pleased to announce its annual "Awards Banquet Event". On behalf of the North Jersey Section, I would like to invite you to attend our prestigious event "Awards Banquet" to be held on Sunday, May 7, 2023, at the Birchwood Manor, in Whippany, New Jersey, from 3:00 pm until 6 pm. The event is meant to appreciate and honor the newly elevated Fellows in our Section, as well as the recipients of technical and other major IEEE awards, IEEE Region-1 Awards, and IEEE Section Awards. It is also a great opportunity to relax, unwind and enjoy the company of all members and non-members at the banquet. Please come join us!

There are more fantastic events coming soon, please stay tuned to our Newsletter!

Best wishes,

Hong Zhao,

IEEE North Jersey Section Chair

IEEE – IMPORTANT EVENTS, ARTICLES, ANNOUNCEMENTS AND REMINDERS:

- [This Month's Communications Society News from Around the World](#)
- ["My Favorite Slogan" - An article by Harry Roman for the February Newsletter](#)
- [2023 IEEE NORTH JERSEY SECTION STUDENT PRESENTATION COMPETITION](#)

My Favorite Slogan

I have the privilege of giving many talks about our economy and invention and Edison. I have always admired the GE slogan, "Progress is our most important product".

This slogan, originally emblazoned on the wall of GE's Outdoor Lighting Center in North Carolina in 1958, certainly champions the importance of progress, but it also has another powerful message...meaning that process is more important than content (any products that can be developed); that is, it does not matter how "smart" a company is, their true value lies in what they can do with what they know, and how fast they can do this for strategic advantage in global markets.

This is just what Thomas Edison would applaud as well. He was all about process--the entire mantra behind R&D labs as an example. In the 80's/90's great companies rejuvenated this process philosophy by emphasizing "strategic corporate processes for success". Now in our current Internet driven world, I do think we need to bring that powerful process message back again.

Incidentally, this is the value of a STEM education, for nowhere else in the national educational curriculum does the message about process get told and practiced, certainly not in the traditional academic curriculum which stubbornly emphasizes content--- with the result that students struggle to "apply" what they have learned. STEM holds a clear advantage for students going into technical fields. Employers want STEM educated applicants for their workforce. By the way, Edison is the great, grand-daddy of STEM! His long-established process for converting raw ideas to products for sale is what STEM teachers refer to today as the "engineering design process".

Talk to you again soon...

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

(*Author & Advisor, Edison Innovation Foundation*), (*Retired-PSE&G Co.*), (htroman49@aol.com)

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](#)



2023 IEEE NORTH JERSEY SECTION STUDENT PRESENTATION COMPETITION

Undergraduate and Graduate students must be enrolled full time in a program of electrical engineering study at an educational institution located in the IEEE North Jersey Section of Region 1. A brief abstract must be submitted to M. Lewis (mlewis@fdi.edu) before 14 March, 2023. Participating students must be members of the IEEE or have their IEEE application pending. There will be separate first, second, and third place winners for Undergraduate and Graduate categories. No equipment demonstration or formal technical paper is required, this is a **presentation competition**. Judging of the presentation will be based on its organization of content, oral presentation, knowledge of the material, and clarity / legibility of images, charts, graphs, and text where applicable.

All entries must report on the student's own research or original circuit design/build/test. No team projects or research. No multiple presenters per entry. Topic may be describing either ongoing or completed work. Only one entry per student.

- Date: **21 Mar 2023, Time: 06:30 PM to 09:30 PM**
- FDU, Muscarelle Center M105, 1000 River Rd. North Parking Lot, Teaneck, NJ 07666, Date: 21 Mar 2023

Calendar of Events

Events for the month of March 2023

Title	Date	Hosts	Location
IEEE North Jersey Section EXCOM - Meeting 6:30 PM: North Jersey Section	01 Mar 2023 06:30 PM	R10327 - North Jersey Section	Teaneck, New Jersey
Women in Electrical and Computer Engineering (WiE): North Jersey Section Jt Chapter, CAS04/ED15	07 Mar 2023 04:30 PM	CH01184 - North Jersey Section Jt Chapter, CAS04/ED15, CH01092 - North Jersey Section Jt Chapter, AP03/MTT17, CH01178 - North Jersey Section Chapter, PHO36, WE10327 - North Jersey Section Affinity Group, WIE	Newark, New Jersey
Towards Low-Power and Internet-Scale Mixed Reality: North Jersey Section Chapter, C16	09 Mar 2023 04:00 PM	CH01177 - North Jersey Section Chapter, C16	Newark, New Jersey
Lead Generation for Consultants: North Jersey Section Affinity Group, CN	16 Mar 2023 06:30 PM	CN10327 - North Jersey Section Affinity Group, CN	Virtual
2023 IEEE North Jersey Section Student Presentation Competition: North Jersey Section	21 Mar 2023 06:30 PM	R10327 - North Jersey Section, STB00591 - Fairleigh Dickinson University	Teaneck, New Jersey
A Simulation Perspective: Cross-Coupling Effects analysis of devices for advanced technological nodes: North Jersey Section Jt Chapter, CAS04/ED15	22 Mar 2023 04:45 PM	CH01184 - North Jersey Section Jt Chapter, CAS04/ED15, CH01092 - North Jersey Section Jt Chapter, AP03/MTT17, CH01258 - North Jersey Section Chapter, TEM14	Newark, New Jersey

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Innovation Day at Nokia Bell Labs: North Jersey Section	25 Mar 2023 08:00 AM	R10327 - North Jersey Section, CH01092 - North Jersey Section Jt Chapter, AP03/MTT17, CH01178 - North Jersey Section Chapter, PHO36, CH01153 - North Jersey Section Chapter, VT06, SIGHT177 - North Jersey Section SIGHT	New Providence, New Jersey
Terra North Jersey STEM Fair - IEEE Young Engineer Award : North Jersey Section	25 Mar 2023 09:00 AM	R10327 - North Jersey Section, CH01092 - North Jersey Section Jt Chapter, AP03/MTT17, CH01178 - North Jersey Section Chapter, PHO36, SIGHT177 - North Jersey Section SIGHT, CH01153 - North Jersey Section Chapter, VT06, SIGHT056 - AP-S SIGHT	Union, New Jersey
2023 IEEE Metropolitan AI Medicine Symposium (IEEE MAIMS-2023): North Jersey Section	25 Mar 2023 08:00 AM	R10327 - North Jersey Section, CH01081 - North Jersey Section, EMB18, CH01092 - North Jersey Section Jt Chapter, AP03/MTT17, CH01178 - North Jersey Section Chapter, PHO36, CH01153 - North Jersey Section Chapter, VT06	Hoboken, New Jersey
Single Channel Speech Enhancement: From Wiener Filtering to Neural Networks: North Jersey Section Chapter, SP01	29 Mar 2023 12:00 PM	CH01091 - North Jersey Section Chapter, SP01, CH01177 - North Jersey Section Chapter, C16	
2023 IEEE Stevens Undergraduate and Graduate AI Workshop (IEEE SUGAIW-2023) : North Jersey Section	06 May 2023 09:00 AM	R10327 - North Jersey Section, CH01081 - North Jersey Section, EMB18, CH01092 - North Jersey Section Jt. Chapter, AP03/MTT17, CH01178 - North Jersey Section Chapter, PHO36, CH01153 - North Jersey Section Chapter, VT06	Hoboken, New Jersey
2023 IEEE North Jersey Section Awards Banquet : North Jersey Section	07 May 2023 03:00 PM	R10327 - North Jersey Section	Whippany, New Jersey
Distributed beamforming aided wireless energy transfer : North Jersey Section Jt Chapter, AP03/MTT17	12 Jun 2023 06:00 PM	CH01092 - North Jersey Section Jt Chapter, AP03/MTT17, CH01184 - North Jersey Section Jt Chapter, CAS04/ED15, CH01153 - North Jersey Section Chapter, VT06, CH01178 - North Jersey Section Chapter, PHO36, SIGHT177 - North Jersey Section SIGHT, CH01095 - North Jersey Section Chapter, CS23, SIGHT056 - AP-S SIGHT	Newark, New Jersey

Past Month's Events: The month of February 2023

Title	Date/Time	Hosts	Location
IEEE North Jersey Section EXCOM - Meeting 6:30 PM: North Jersey Section	01 Feb 2023 06:30 PM	R10327 - North Jersey Section	Teaneck, New Jersey
International Women in STEM Day at Crestron: North Jersey Section	10 Feb 2023 03:00 PM	R10327 - North Jersey Section	Rockleigh, New Jersey
Developing optical elastography techniques for intraoperative breast cancer detection: North Jersey Section Jt Chapter, CAS04/ED15	13 Feb 2023 04:30 PM	CH01184 - North Jersey Section Jt Chapter, CAS04/ED15, CH01092 - North Jersey Section Jt Chapter, AP03/MTT17, CH01178 - North Jersey Section Chapter, PHO36, CH01081 - North Jersey Section, EMB18	Newark, New Jersey
RF Design for Sustainability: North Jersey Section Jt Chapter, AP03/MTT17	14 Feb 2023 12:00 PM	CH01092 - North Jersey Section Jt Chapter, AP03/MTT17, CH01178 - North Jersey Section Chapter, PHO36, CH01184 - North Jersey Section Jt Chapter, CAS04/ED15, SIGHT177 - North Jersey Section SIGHT	Virtual
Communications and Networking in LEO Mega-Constellations: North Jersey Section Affinity Group, CN	16 Feb 2023 07:30 PM	CN10327 - North Jersey Section Affinity Group, CN	Virtual
Senior Member and Student Membership drive: North Jersey Section	23 Feb 2023 06:30 PM	R10327 - North Jersey Section	Teaneck, New Jersey
Lead Generation for Consultants: North Jersey Section Affinity Group, CN	16 Mar 2023 06:30 PM	CN10327 - North Jersey Section Affinity Group, CN	Virtual
Innovation Day at Nokia Bell Labs: North Jersey Section	25 Mar 2023 08:00 AM	R10327 - North Jersey Section	New Providence, New Jersey
Terra North Jersey STEM Fair - IEEE Young Engineer Award: North Jersey Section	25 Mar 2023 09:00 AM	R10327 - North Jersey Section	Union, New Jersey
2023 IEEE Stevens Undergraduate and Graduate AI Workshop (IEEE SUGAIW-2023): North Jersey Section	06 May 2023 09:00 AM	R10327 - North Jersey Section, CH01081 - North Jersey Section, EMB18	Hoboken, New Jersey

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GRADUATE SCHOOL VIRTUAL OPEN HOUSE!

Wednesday, March 15, 2023, 5 p.m.

Fairleigh Dickinson University

Gildart Haase School of Computer Sciences & Engineering (GHCSE)

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

*Cybersecurity & Information Assurance	*Management Information Systems
*Electrical Engineering	*Computer Engineering
*E-Commerce	*Computer Science (Data Science, Cloud Computing and more)

Scan Zoom Registration



Scan Grad Program Info







GRADUATE SCHOOL VIRTUAL OPEN HOUSE!

Wednesday, April 19, 2023, 5 p.m.

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Scan Zoom Registration



Scan Grad Program Info





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Chair – Vacant

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