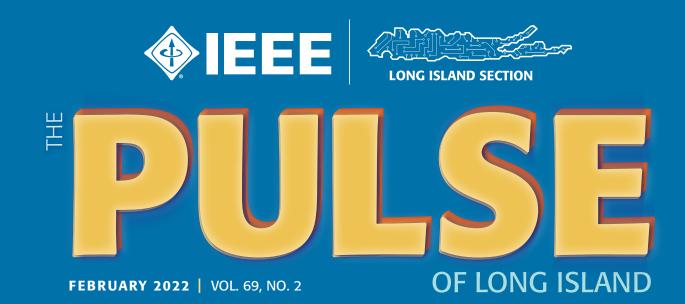
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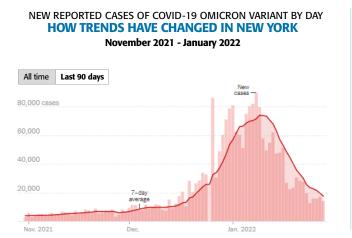
2020 OUTSTANDING MEMBERSHIP RETENTION PERFORMANCE LONG ISLAND SECTION

## **CHAIR's MESSAGE**

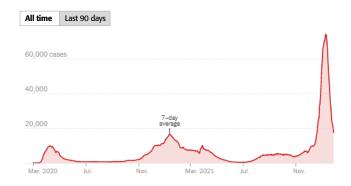


A blizzard seems to be very conducive to sitting down to write, which is the case as I write this. I hope the historic storm we experienced in the last days of January has not affected anyone too adversely. Being confined to the house by weather also allows time for continued planning for an uncertain future. However, things are looking hopeful. These figures below indicates the course of

the omicron variant of the Covid-19 pandemic. Expectations for in-person meetings and events remain good.







Some things to look forward to are the LISAT 2022 Conference in May and the EJCLI Engineers Week Seminar Series coming up in February, only a few weeks away, the 16th, to be exact. It takes place at the conveniently located Holiday Inn on Sunnyside Boulevard, Plainview. *The registration link for the series is here.* 

February also brings us **Black History Month**; a celebration of the accomplishments and contributions that African-American engineers have made. An instructive but by no means comprehensive take is in this <u>video</u>. It is helpful for all of us to remember that the history of Black Americans is unique among our immigrant experiences. Those of us who are not Black have immigrant stories of arriving in America with a few dollars and the Statue of Liberty's guarantee of freedom. We do not have a forebear's experience of arriving chained to a deck penniless and naked, being forced to work for no pay and denied the freedoms granted to all others over the span of ten generations. Accomplishment should always be appreciated and honored, moreso when it overcomes unique adversity.

As I mention often, the **Pulse** is seeking to remain relevant in a digital age. Articles of a technical nature are always welcome, as are articles involving engineering ethics, regulations, economics or other related subjects that may be inspiring or instructive to the membership. If there is interest, the Pulse may also highlight Long Island employers with IEEE members as well as individual members. Please send suggestions to *pulse@ieee.li*. As usual, stay healthy and well.

**Arnold Stillman** *IEEE Long Island Section Chair, 2022* 









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Arnold Stillman, Editor pulse@ieee.li

Anthony Giresi, Graphic Designer pulse@ieee.li

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#### www.ieee.li THE IEEE LONG ISLAND SECTION WEBSITE

The IEEE LI Section website is regularly updated to reflect recent section activity and upcoming events. Each Society and Affinity Group has a dedicated page that describes their function and includes contact information.

#### www.licn.org

#### CONSULTANT'S NETWORK OF LONG ISLAND

The Consultant's Network of Long Island maintains a referral service of engineering, computer, managerial and technical professionals.

#### membership@ieee.li MEMBERSHIP DEVELOPMENT

For more information on membership with the LI Section of the IEEE, e-mail Carl Meshenberg at: membership@ieee.li



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Chair: Dave Mesecher Vice Chair: Vacant Email: aes@ieee.li

#### IFFF computer society

**COMPUTER SOCIETY (CS)** Chair: Barbara Porter

Vice Chair: Brian Quinn Email: computer@ieee.li



#### **MICROWAVE THEORY AND TECHNIQUES SOCIETY (MTT)**

Chair: Saikumar Padmanabhan Vice Chair: Eric Darvin Email: mtt@ieee.li



#### **POWER ELECTRONICS SOCIETY (PELS)**

Chair: Ronald DeLuca Vice Chair: Predrag Hadzibabic Email: pels@ieee.li



#### **ANTENNAS AND PROPAGATION SOCIETY (APS)**

Chair: Bryan Tropper Vice Chair: Sai Padmanabhan Email: ap@ieee.li

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COMPATIBILITY SOCIETY (EMCS)

SOCIET

**ELECTROMAGNETIC** 

Chair: James Colotti

Email: emc@ieee.li

Vice Chair: Bob DeLisi

EEE

NUCLEAR AND PLASMA

Chair: Shaorui Li

Email: nps@ieee.li

SCIENCES SOCIETY (NPS)

Vice Chair: Graham Smith



#### **CIRCUITS AND SYSTEMS SOCIETY (CAS)**

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Email: emb@ieee.li

#### **ENGINEERING IN MEDICINE** & BIOLOGY SOCIETY (EMBS) Chair: John Vodopia Vice Chair: Vacant



**PHOTONICS SOCIETY (IPS)** Chair: Adam A. Filos

Vice Chair: M. Nazrul Islam Email: photonics@ieee.li



#### **SIGNAL PROCESSING SOCIETY (SPS)** Chair: Jessica Donaldson

Vice Chair: Dave Mesecher Email: signal@ieee.li



SYSTEMS COUNCIL (SYSC) Chair: Stephanie White Vice Chair: Vacant Email: systems@ieee.li



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#### **INSTRUMENTATION AND MEASUREMENT SOCIETY (IMS)**

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Power & Energy Society\*

#### **POWER & ENERGY/INDUSTRY APPLICATIONS SOCIETY (PES & IAS)**

Chair: Lou D'Onofrio Vice Chair: Marjaneh Issapour Email: power@ieee.li



#### **SOCIAL IMPLICATIONS OF TECHNOLOGY SOCIETY (SSIT)**

Chair: Howard Edelman Vice Chair: John Vodopia Email: social@ieee.li



#### **TECHNOLOGY & ENGINEERING MANAGEMENT SOCIETY (TEMS)**

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**PRODUCT SAFETY ENGINEERING SOCIETY (PSES)** 

Chair: Tom Lanzisero Vice Chair: Vacant Email: safety@ieee.li

The Long Island Section of IEEE has 18 Chapters. Each Chapter is a technical subunit of the Long Island Section, associated with an IEEE Society. The Chapters, as well as the Section, are always welcoming volunteers. If you would like to help with any of the Long Island Chapter's steering groups, please do contact the relevant Chapter Chair, Vice Chair, or one of the Section officers.

# ELECTRONICS SOCIETY



# WEDNESDAY, FEBRUARY 16, 2022 ENGINEER'S WEEK SEMINAR SERIES

HOLIDAY INN PLAINVIEW, 215 Sunnyside Blvd., Plainview, NY 11803 516-349-7400

Should conditions deteriorate due to COVID and we are unable to present these seminars in person, provisions will be made to present these workshops as webinars - the show must go on! Snow Date: Thursday, March 3, 2022.

>>>> CLICK HERE TO REGISTER ONLINE <<<<<

#### 9:00 am – 11:00 am • TRACK A AN INTRODUCTION TO FLOWMETER TECHNOLOGIES

Walter Freeman & Wayne Martin, Neal Systems, Inc.

We will be covering all of the following areas: Flow definitions, reasons for flow measurement, difference between total flow & flow rate, understand mass flow vs. volume flow, identify what is Standard Volume, understand accuracy & repeatability, calculate percent of rate vs. percent of full scale accuracy, determine range-ability, be knowledgeable of flowmeter technologies, and identify important standards organizations. (2 PDH)

#### 11:15 am – 12:15 pm • TRACK A **STEEP SLOPE ROOFING VENTILATION SOLUTIONS** Jonathan Parisi and Karl Luechau, *GAF*

An improperly ventilated house is susceptible to a range of problems, from mold growth and structural damage to increased energy costs. This course discusses principles of proper ventilation in houses with steep-slope roofing – from the science behind moisture and airflow to the products used to assist ventilation through a structure. (1 PDH)

#### 1:15 pm – 3:15 pm • TRACK A PLANNING & DESIGN OF GAS DETECTION SYSTEMS Dexter Vilar, Neal Systems, Inc.

This seminar will identify the seven main reasons to install Gas Leak Detection systems. Types of gas dangers such as asphyxiates, toxicity, explosives. Gas leak detection system guidelines for design will be introduced discussing portable and fixed systems. (2 PDH)

#### 3:30 pm – 4:30 pm • TRACK A INVESTIGATION OF JET ENGINE EXHAUST DEFLECTION FOR LIFTING PURPOSES

**Glenn Mackey**, *Retired Aeronautical Engineer* Desires by aircraft operators to reduce or eliminate runway requirements for takeoff and landing have resulted in development of various aircraft designs. One type which offers promise uses the deflected exhaust of the jet engine to produce lift. This seminar discusses a study that was made to evaluate characteristics of this type of jet deflection. (1 PDH)

#### 9:00 am – 11:00 am • TRACK B UNCONVENTIONAL MATERIALS & EXPERIMENTAL STRUCTURES Edward M. Segal, Ph.D., P.E., Hofstra University

Today, many built works utilize materials with well-established precedents, standards, and design guidelines (e.g., steel, concrete, and wood). While these structures may meet strength and/or serviceability criteria, considering a broader range of materials may lead to more sustainable systems. Unconventional materials may offer environmental, economic, and social advantages when used in place of or in combination with well-established materials in building structures. This presentation will include discussions of recent research and design projects that have utilized unconventional building materials such as polyester rope, aluminum cast into cracked clay, and scrap acrylic. (2 PDH)

#### 11:15 am – 12:15 pm • TRACK B HVAC FILTRATION SYSTEM THAT NEUTRALIZES BACTERIA & VIRUSES, INCLUDING COVID Carl Sajeva. Sartek Industries. Inc.

In this seminar we will take a brief look at the evolution of air filters with specific application to currently available systems for antiviral & antibacterial uses. (1 PDH)

#### 1:15 pm – 3:15 pm • TRACK B HOW TO PROTECT BUILDINGS FROM LEGIONNAIRES' DISEASE Jay Egg, CMC and Kristy G. Richards Egg, BSPH, RN, Egg Geo, LLC

Because of the deep knowledge required to fully comprehend the depth of breadth of complex water and mechanical systems, the relationship between Legionella and the facility structure, mechanical systems, and human activities, it is recommended that mechanical engineers, industrial hygienists, and infection control experts all be cross-trained to be considered for future cooling tower related legionella assessor licensing. As for building code requirements under recommendations by the 2024/APMO Uniform Mechanical Code and the Uniform Plumbing Code, as part of a new construction permit, building remodel or upgrade, building owners shall be required to identify all evaporative cooling towers on property in order for permit consideration. (2 PDH)

#### 3:30 pm – 4:30 pm • TRACK B NOISE CONSIDERATION AND REDUCTION IN AIR HANDLERS Sean Garster, Nortek Air Solutions

This presentation will cover design and selection of Air Handling Units with an emphasis on noise considerations: components of sound, life of sound, processing sound as information; followed up with specific applications. Mr. Garter's presentation will help attendees understand how utilizing fan arrays can help significantly reduce noise in & around HVAC systems. (1 PDH)

#### 9:00 am – 11:00 am • TRACK C GEOTHERMAL HEATING AND COOLING SYSTEM CASE STUDY Paul K. Boyce, PE, PG, PW Grosser Consulting

This seminar presents a case study of a new geothermal HVAC system for St. Patrick's Cathedral consisting of a 10-well array as well as reversible chillers and the new chilled and hot water piping distribution system. (2 PDH)

#### 11:15 am – 12:15 pm • TRACK C GEOTHERMAL HEATING AND COOLING ENGINEERING ASPECTS Yongjian Gu, Ph.D., P.E., United States Merchant

Marine Academy

Dr. Gu will present a general description of geothermal energy and its application. Engineering aspects of typical geothermal systems including piping loop variations, chiller & heat pump utilization, cogeneration-electricity production benefits will all be discussed. This seminar will be an in-depth review of the theoretical concepts behind the technology, as well as performance parameters & cost of geothermal energy for power production/cogeneration. (1 PDH)

#### 1:15 pm – 4:30 pm • TRACK C GFCI AND AFCI REQUIREMENTS IN DWELLINGS & NON DWELLINGS

Stan Komoroski, Master Electrician & Instructor, Electrical

Training Center Topics to be covered are an overview of definitions, an overall discussion on understanding GFCI Protection as a whole, current GFCI requirements in a dwelling, GFCI requirements in locations other than dwelling units and understanding AFCI Protection and where it is required. (3 PDH)

8:00 am – 9:00 am	<b>REGISTRATION &amp; BREAKFAST</b>
9:00 am – 11:00 am	MORNING SEMINARS
11:00 am – 11:15 am	BREAK
11:15 am – 12:15 pm	MORNING SEMINARS continued
12:15 pm – 1:15 pm	LUNCH
1:15 pm – 3:15 pm	AFTERNOON SEMINARS
3:15 pm – 3:30 pm	BREAK
3:30 pm – 4:30 pm	AFTERNOON SEMINARS continued







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FOR UPDATES ON ALL LONG ISLAND SECTION EVENTS, CHECK OUT THE IEEE LONG ISLAND SECTION WEBSITE: www.ieee.li





CREST HOLLOW COUNTRY CLUB 2020/21 COMBINED IEEE-LI SECTION AWARDS CEREMONY and DINNER THURSDAY, MARCH 31, 2022 5:30 PM



# THURSDAY, NOVEMBER 3, 2022 (tentative) POWER ELECTRONICS SYMPOSIUM (PES)

The annual PELS PES has been rescheduled for November 3, 2022 (tentative date) because of concerns regarding the on-going COVID pandemic. After careful review of the issues hosting this event the PES committee has decided to take a safe conservative approach and postpone this event to 2022 when we have a better handle on the limitations with regard to social interaction. While this was a difficult decision the committee is ensuring that the high standards with regard to; number of exhibitors and participant attendance and robust presentations we developed over the previous events will be maintained when we host again.

While we are all anxious to get back to our "Normal" industry dynamics, rest assured we are committed to continuing with the annual PES event. Please keep an eye out for future announcements on the future date for the PES and other PELS events.

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### CONFERENCES

# Sixteenth Annual IEEE Long Island Systems, Applications and Technology Conference

FRIDAY, MAY 6, 2022

**.ISAT 2022** 

HELD AT NEW YORK INSTITUTE OF TECHNOLOGY, OLD WESTBURY, NEW YORK

### **CALL FOR PAPERS, PRESENTATIONS, EXHIBITORS and STUDENT PAPERS**

The Long Island Systems, Applications and Technology (LISAT) Conference features several parallel professional tracks including topics in systems, applications, and technology; a PDH program and an Exhibition. We are soliciting submissions for participation in both the technical program, applications program, and the exhibition, and are interested in papers, presentations, and exhibits that showcase the development and use of technology by local organizations. Small and Large Businesses, Government Agencies, LISAT 2022 will also include Distinguished Lecture presentations on topics of strong interest to the scientific and engineering community & will provide the opportunity for select Undergraduate and Graduate student papers and/or posters to be presented.

Authors shall be required to provide a six (6) page IEEE standard manuscript for publication in IEEE Xplore, and will be required to make a PowerPoint<sup>TM</sup> presentation at the conference. Manuscripts are subject to the LISAT Technical Program Committee's peer review and may require revision prior to final acceptance. Important dates for the Technical Program are:

LISAT 2022 IMPORTANT DATES		
MANUSCRIPTS FOR PUBLICATION AND COPYRIGHT RELEASES DUE	FEBRUARY 1, 2022	
NOTIFICATION OF ACCEPTANCE OF MANUSCRIPTS (SUBJECT TO FINAL EDITS)	MARCH 7, 2022	
FINAL MANUSCRIPT EDITS, BIOS, AND POWERPOINT DUE	APRIL 8, 2022	
PRESENTER REGISTRATION	APRIL 20, 2022	
LISAT 2022 CONFERENCE	MAY 6, 2022	

Detailed instructions on submission, manuscript and presentation templates, and information on the conference are available on the LISAT web site at www.ieee.li/lisat. Manuscript format must agree with requirements specified in the Author's Kit, which will be made available.

Each presentation will be 15 minutes long followed by 5 minutes of Q&A. At least one author must register for the conference for each paper/presentation. If one presenter is presenting multiple papers, then multiple registrations are required. A limited number of tutorial and application presentations, which will not be published by the IEEE, may also be accepted.

LISAT has a strict "No Podium, No Publish" policy. "Manuscripts will only be submitted for publication in IEEE Xplore if a presentation is made at the Conference."

For information on Exhibiting at LISAT, please contact: exhibits@ieee.li. For all other information contact LISAT 2020 Technical Program Committee Chair: Dave Mesecher at d.mesecher@ieee.org Conference Chair: Dr. Charles Rubenstein at c.rubenstein@ieee.org or Conference Co-Chair: Dan Rogers at drogers@ieee.org.

LISAT encourages submissions from all areas of engineering, science, and technology. Topics of particular interest include Surveillance & Navigation Systems, Communications (Military and Commercial), Sensors and Advanced Electronics, Photonics, Fiber Optics and Wireless Technologies and Applications, Data Acquisition, Analysis and Computational Science, Microelectronics and Antennas for Commercial, Military and Space-Based Applications, Nanomaterials, Climate, Environment and Biosciences, Energy and Cyber Security and Health Sciences and Health Care.

**Releases and Approvals:** This conference will be unclassified and attended by both US and non-US persons. It is the author's responsibility to obtain all required company and government releases and approvals prior to making a paper submission. A statement that such releases and approvals have been obtained as well as a completed IEEE Copyright Form (signed by the submitting author) must accompany the manuscript of each accepted paper. For those requiring a travel visa, it is strongly recommended that Authors apply for their visa as soon as is possible.

LISAT is sponsored by the IEEE Long Island Section and its Technical Society Chapters and IEEE Region 1, in cooperation, for the last fifteen years with the Farmingdale State College of SUNY.



#### NEW YORK INSTITUTE OF TECHNOLOGY

College of Engineering & Computing Sciences



### WRITE FOR THE PULSE

# LET YOUR VOICE )))) HEARD

## WRITE TO THE PULSE

**The Pulse of Long Island** is a newsletter for the members of the IEEE Long Island Section. You can let your voice heard by writing to the Editor. How to bring more value to our members? Interesting new technology, or a project? An issue of interest to members of the IEEE Long Island, Long Island engineers and computer professionals, or Long Island technical community at large? Write to the **Pulse.** Let your letter be read, and your voice heard.

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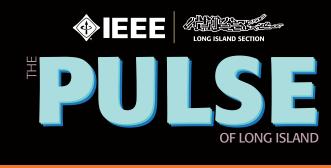


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IEEE

#### CONTRIBUTIONS FROM LONG ISLAND TECHNICAL & ENGINEERING COMPANIES:

Publish your technology-related press release (up to one page) at no cost. Please send the press release as a PDF file attached to email to **pulse@ieee.li**, addressed to the Editor, with a Subject line *"Pulse -PR"* followed by your company name, and the responsible contact person's name, email and phone number in the email body.



CONTRIBUTE TO THE PULSE – LET YOUR LETTER BE READ and LET YOUR YOUR VOICE BE HEARD



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Being elevated to senior member recognizes people who have moved beyond entry-level work in their careers. It also encourages them to engage more broadly with engineers and other technical professionals in companies and universities outside their own. To be eligible for senior member status, members must have worked in a professional capacity in a technical field for at least 10 years. Educational experience is partially credited toward that time. Nominees must also have professional references from three IEEE senior members, Fellows, or honorary members. If you're interested in elevation, you don't have to wait to be nominated—you can nominate yourself.

# >> APPLY FOR SENIOR MEMBER GRADE

# **IEEE LIFE MEMBERS**, WRITE FOR THE **PULSE**!



The Section is inviting you to record your stories and histories in our monthly publication, the *Long Island Pulse*. An article of approximately 300 – 350 words is recommended.

> LET US HEAR FROM YOU. Send your article to: pulse@ieee.li Life Member Chair: life@ieee.li

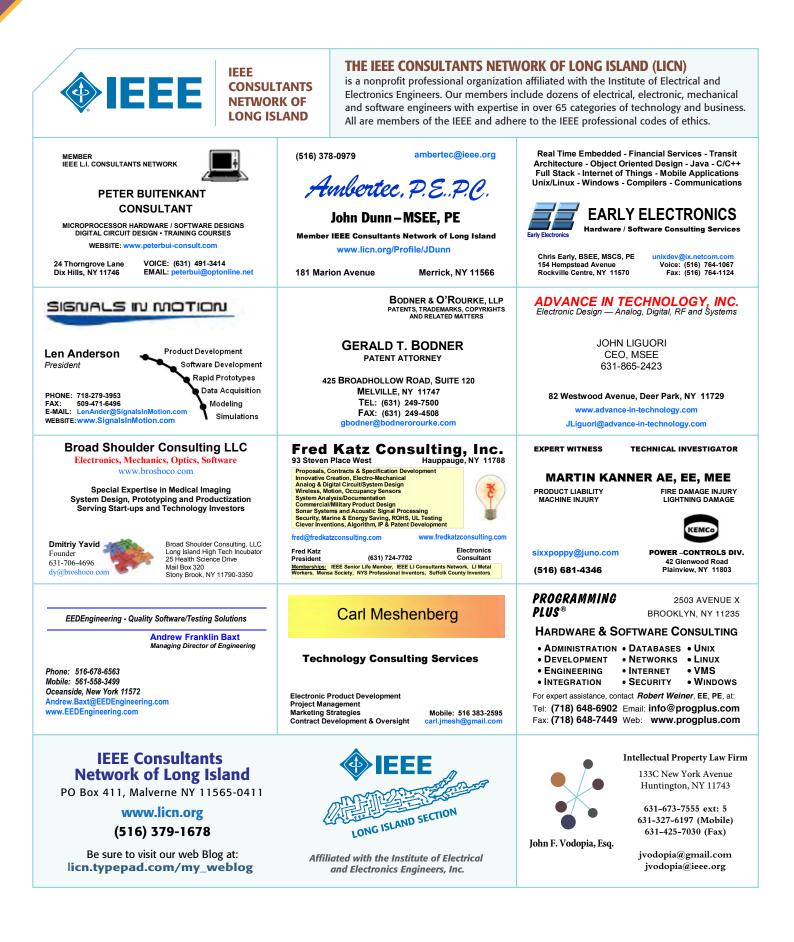
The **IEEE Long Island Section** has held meetings with many of our Life Members and Senior Engineers, in recent months. Your stories and histories in engineering are interesting, inspiring and should be recorded for future generations. You have served your profession for many years, many have served our country in the military, many as engineers fighting the Cold War. The many contributions are the legacy to this new digital age, space age, environmental age and beyond.

#### WANTED: IEEE LIFE MEMBER NEEDED TO VOLUNTEER TO SUBMIT A MONTHLY HISTORY ARTICLE FOR THE PULSE

The **PULSE** is seeking a IEEE LI Life Member to write the *Long Island Electrical & Electronic History* monthly article for the **Pulse**. If interested contact **pulse@ieee.li** 

# **WE WANT YOUR STORIES**







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