



THE PULSE

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OF LONG ISLAND



INSIDE THIS ISSUE

- ❖ **CALL FOR VOLUNTEERS: Qualified Judges needed for LISEF** | 6
- ❖ **2020 IEEE LI Section Annual Awards Banquet** Announcement | 7
- ❖ **Conferences** | 8 - 9
- ❖ **Nominate Yourself to Become a Senior Member** | 10
- ❖ **Membership Benefits** | 11
- ❖ **Employment Opportunities** | 13



A happy and healthy New Year to you and your families. Let's hope 2020 is a successful and auspicious new year for the IEEE and its members. Heartfelt thanks to all who volunteered their time to organize and promote Section activities in 2019. From popular social networking events to successful conferences and symposia, volunteers gave of their time and effort to guarantee attendance and relevance. I would like to single out Lou D'Onofrio for his tireless work as the outgoing Section Chair. His leadership and concern for the wellbeing of the section were self-evident and I will lean on him to provide a smooth transition into the coming year. James Colotti as well gave of himself to organize the social networking events which were "member only benefits."

The 2020 Officers for the Long Island Section are:

Section Chair: Arnold Stillman

Treasurer: Santo Mazzola

Vice Chair: Ronald Pirich

Secretary: Rhonda Green

Since I am not known to a lot of the membership, a brief bio is in order. Although my degree from the University of Rochester is in Physics, my only ever job designation and role was as an engineer. Most of that was spent at Brookhaven National Laboratory, where I designed instrumentation for the Alternating Gradient Synchrotron in the Accelerator Division and then high speed trigger electronics in the Physics Department. Subsequent to BNL, I worked at Tacronics as a Senior Engineer and Clever Devices as a Senior Researcher. I am currently the founder and CEO of a startup, POEM Technology, which manufactures oil and propane tank monitors as part of an Internet of Things effort.

It is probably as exciting as ever to be an engineer. New fields of interest are moving from academic theories into real applications. Among them, artificial intelligence, cryptography, blockchain algorithms, electronic health records and medicine are only a few topics firing the imaginations of young engineers. Along with these new developments come the associated problems as well as the pre-existing problems of our time. Climate change, privacy, facial recognition and surveillance methods bring with them a need for solutions which will require technical backgrounds. The IEEE and the Section in particular must be committed to developing and nurturing the interests of the latest generation of engineers who will implement these solutions.

Unfortunately, membership is declining and this decline is the major challenge facing the section, if not the IEEE in general. The IEEE provides member value in the form of technical seminars, publications, conferences and even insurance, but perhaps a new focus is necessary. I do not have answers, but I am committed to exploring new ways to engage. Please feel free to suggest methods that excite minds. We will, as usual, host the **2020 Awards Banquet** at the Crest Hollow Country Club on March 25. Although that is a highlight of the year, there are a couple of other noteworthy events:

1. On April 4th NYIT hosts the **Women in Engineering and Technology Day**. President-elect of the IEEE, Susan K Land, will speak.
2. There will be an *IEEE Milestone commemorative ceremony* in cooperation with the Rocky Point Historical Society honoring the historical importance of the **RCA Radio Central facility**, inaugurated Nov. 5, 1921. The date will be announced.

I look forward to a year of new developments and methods of engagement. Please stay involved and support the section in its mission. We look forward to your participation.

Regards,

Arnold Stillman

IEEE Long Island Section 2020 Chair

THE PULSE OF LONG ISLAND



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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



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 Vice Chair: **Sai Padmanabhan**
 Email: ap@ieee.li



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 Vice Chair: **Vacant**
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 Vice Chair: **Graham Smith**
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 Vice Chair: **M. Nazrul Islam**
 Email: photonics@ieee.li



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



POWER ELECTRONICS SOCIETY (PELS)

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 Vice Chair: **Predrag Hadzibabic**
 Email: pels@ieee.li



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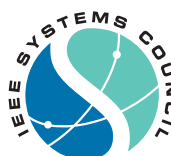
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 Vice Chair: **Dave Mesecher**
 Email: signal@ieee.li



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 Vice Chair: **John Vodopia**
 Email: social@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.



SYSTEMS COUNCIL (SYSC)

Chair: **Stephanie White**
 Vice Chair: **Vacant**
 Email: systems@ieee.li



TECHNOLOGY & ENGINEERING MANAGEMENT SOCIETY (TEMS)

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 Vice Chair: **Barbara Porter**
 Email: tmc@ieee.li

LET YOUR VOICE BE 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.

HOW CAN I CONTRIBUTE TO THE PULSE?

Send your letters or articles via email to pulse@ieee.li. If selected for publication, the letter or article will be edited before being published.



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CONTRIBUTION DEADLINE:

20th of a month for the next month edition.

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.



THE PULSE OF LONG ISLAND

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



CALL FOR VOLUNTEERS LISEF IS IN NEED OF QUALIFIED JUDGES

The Long Island Science and Engineering Fair (LISEF) organizes a yearly forum for senior high school students from Nassau and Suffolk Counties to submit and exhibit their research projects. From this group of over 500 student participants, finalists are selected to compete in the annual International Science and Engineering Fair (ISEF). *LISEF is in need of qualified judges* and is inviting all qualified individuals (medical/veterinary doctors, university faculty, postdoctoral associates, graduate students, engineers, psychologists) to volunteer on one or both days of the upcoming competition. There are 21 judging categories to select from. Round One will be held on Wednesday, February 5, 2020 and Round Two on Thursday, March 12, 2020. The event takes place at the Crest Hollow Country Club in Woodbury, NY.



LISEF

Judging for LISEF is a volunteer activity for qualified professionals who have a PhD or are currently pursuing a PhD or have suitable experience in a science and/or engineering field, retirees included.

Category assignments will be determined on the day of the fair as the number of available judges in each category becomes more definitive. The only items that a judge is asked to bring is an inquisitive mind and a lot of enthusiasm!

For further information and to register as a judge for this rewarding experience go to www.lisef.org, click on register, create a user account, verify email and register as a judge. Graduate students that sign up to judge are eligible to receive a transportation stipend.



LOOKING FOR AN UPDATE ON SECTION EVENTS?

FOR UPDATES ON ALL LONG ISLAND SECTION EVENTS, CHECK OUT THE IEEE LONG ISLAND SECTION WEBSITE:

www.ieee.li



IEEE



LONG ISLAND SECTION

IEEE computer society

SHARE YOUR EXPERIENCE PRESENT YOUR WORK TO THE IEEE

**Working on an interesting project? Or have an interesting topic to talk about?
A startup ready to spread a word, or in need of beta testers with computer knowledge?**

Computer Society Chapter invites you to present your project or your experience. For one of the upcoming meetings, we'd like to mash technical and social, and have several presenters presenting interesting computer-related topics in a shorter timeframe, fostering conversation. This is an opportunity to meet each other, learn about our work and possibly identify opportunities for collaboration.

Contact IEEE Computer Society Chapter at computer@ieee.li with your suggested topic.

THE LONG ISLAND SECTION OF THE INSTITUTE
OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

2020 ANNUAL AWARDS CEREMONY

Presentation and Dinner

WHEN:

**Wednesday,
March 25, 2020**

WHERE:

**Crest Hollow
Country Club,
8235 Jericho Tpke,
Woodbury, NY**

TIME:

5:30 pm

Arnold Stillman
Chair, IEEE LI Section



IEEE



LONG ISLAND SECTION

Information on registering for the banquet, and sponsorship opportunities will be communicated in January

NEW YORK INSTITUTE OF TECHNOLOGY

College of Engineering & Computing Sciences

We are thrilled to invite you... the inquisitive, fun-loving, caring, problem-solver interested in making the world a better place by solving the many challenges we face today. Are you a high school student who is curious about engineering & technology? Do you want to meet female engineers, leaders, and NYIT engineering students to learn about their journeys and how they make a difference in their world? Join us for a day of empowerment, hands-on learning, and fun engineering/technology activities.

What are you waiting for?

Do.
Make.
Innovate.
Reinvent the Future.

WOMEN IN ENGINEERING AND TECHNOLOGY DAY

Imagine. Inspire. Empower.



SATURDAY, APRIL 4, 2020

8:30 a.m. – 4:30 p.m.

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RSVP: BY MARCH 19, 2020

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VP of Technology Development & 5G Labs, Verizon



SUSAN K (KATHY) LAND

IEEE President-Elect & Program Manager, The Missile Defense Agency



PENNIE S. TURGEON

VP of IT and CIO, New York Institute of Technology



MARIA R. PERBELLINI

Dean, School of Architecture & Design, New York Institute of Technology



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 the systems, applications and technology, program, and the exhibition, and are interested in papers, presentations, and exhibits that showcase the development and use of technology by local organizations, including small and large businesses, local, state and federal government agencies. LISAT 2020 will also include both Distinguished Lecture and Invited presentations on topics of strong interest to the scientific and engineering community and 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 Power Point TM 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 2020 IMPORTANT DATES	
MANUSCRIPTS FOR PUBLICATION AND COPYRIGHT RELEASES DUE	MARCH 2, 2020
NOTIFICATION OF ACCEPTANCE OF MANUSCRIPTS (SUBJECT TO FINAL EDITS)	MARCH 16, 2020
FINAL MANUSCRIPT EDITS, BIOS, AND POWER POINT DUE	APRIL 6, 2020
PRESENTER REGISTRATION	APRIL 6, 2020
LISAT 2020 CONFERENCE	MAY 1, 2020

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: Dr. Ronald Pirich at rpirich@gmail.com, Conference Chair: Dr. Charles Rubenstein at c.rubenstein@ieee.org or Conference Co-Chair: Dan Rogers at drogers@ieee.org. LISAT is sponsored by the IEEE Long Island Section and its Technical Society Chapters and IEEE Region 1, in cooperation, for the last thirteen years with the Farmingdale State College of SUNY.

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.



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You've Always Set Yourself Apart. Now it's Time to make it Official. Nominate Yourself to become a...
IEEE SENIOR MEMBER



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!

life 
member

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
c.c. 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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IEEE membership offers access to technical innovation, cutting-edge information, networking opportunities, and exclusive member benefits. Members support IEEE's mission to advance technology for humanity and the profession, while memberships build a platform to introduce careers in technology to students around the world.



JOIN IEEE OR RENEW YOUR MEMBERSHIP

Reach your full potential as part of the world's largest technology community. Join professionals, experts, and advisors who can help shape your career, offer resources to acquire new skills, and advance your professional development.



MEMBER BENEFITS

As an IEEE member, you'll be presented with new resources, valuable opportunities, and many discounts that will help you advance your career in the right direction. You can find colleagues who share your vision and commitment—those who are moving technology forward today.



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is a nonprofit professional organization affiliated with the Institute of Electrical and Electronics Engineers. Our members include dozens of electrical, electronic, mechanical and software engineers with expertise in over 65 categories of technology and business. All are members of the IEEE and adhere to the IEEE professional codes of ethics.

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ASSISTANT PROFESSOR (2 Postions)

JOB DESCRIPTION:

The Department of Security Systems and Law Enforcement Technology at Farmingdale State College (SUNY) invites applications for two tenure-track positions at the rank of Assistant Professor beginning in the Fall of 2020. The successful candidate will teach a variety of undergraduate courses in Computer Security and Software Technology, including information security, cryptography, cyber security, computer forensics, database security, physical security, artificial intelligence, software development, and machine learning. Other responsibilities include student advisement and curriculum development. Candidates must engage in grant development work and research leading to publications in refereed academic journals. All faculty members at Farmingdale State College have three workload components: teaching, research and scholarly activity, and service. The successful candidate will demonstrate an interest and high level of competence in teaching. Candidates should have a research agenda that complements their area of academic specialty resulting in peer-reviewed publications and presentation, both of which are necessary for promotion and tenure at Farmingdale State College. The service component of the workload includes student advisement as well as active participation on departmental, school and college-wide committees. The faculty member may be expected to teach in multiple formats including hybrid, online and traditional face-to-face classes. The college particularly welcomes candidates with knowledge, skills and abilities that include: Commitment to diversity and university initiatives supportive of diversity and inclusion. Interest in participating in student-centered service activities. Desire to apply expertise in promoting civic engagement with the College's many community partners.

REQUIRED QUALIFICATIONS:

An earned doctorate in Computer Science, Computer Security, Cybersecurity, Computer Engineering, or a closely related field. Highly qualified ABD's may be considered if completion of the Ph.D. will occur by the Spring 2021 semester. A proven-track of records programming with C, C++, Java, Python, and/or other programming languages beyond school level, and familiarity with Windows, Linux and Mac OS. The candidate must be a permanent resident or a US citizen because Farmingdale State College does not offer any kind of visa sponsorship.

PREFERRED QUALIFICATIONS:

The candidate should have earned a Bachelor's degree in Computer Security, Computer Science, Computer Engineering, or a closely related field. He/she should possess expertise or interest in the areas of Computer security, cyber security, homeland security, physical security, artificial intelligence and/or machine learning. Applicant should possess excellent communication, interpersonal skills and have previous college level teaching experience. Evidence of prior teaching experience, scholarly publications and any industry experience is preferred.

ADDITIONAL INFORMATION:

This is a full-time, 10 month faculty position. For the first 10 working days, beginning Friday, October 25, 2019 and ending Thursday November 7, 2019, applications will be limited to UUP Farmingdale. CLOSING DATE FOR RECEIPT OF APPLICATIONS: Sunday, December 8, 2019. Salary: \$70,000/year, may increase commensurate with experience. ANTICIPATED START DATE: Tuesday, September 1, 2020. SUNY offers excellent fringe benefits including health insurance options and retirement plans. VISA SPONSORSHIP IS NOT AVAILABLE FOR THIS POSITION.

APPLICATION INSTRUCTIONS:

To apply, submit a letter of application (that includes a statement on teaching philosophy and methodology), c.v., copies of teaching evaluations, unofficial copy of graduate transcripts (showing highest degree awarded/or currently in process), names and contact information of three references. Only applications made through Farmingdale's electronic application system will be accepted. Candidates invited for interviews will be asked to make a presentation on their research/creative activities as well as a separate teaching demonstration.

TO APPLY GO TO:

www.farmingdale.edu/employment

Farmingdale State College
STATE UNIVERSITY OF NEW YORK



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