



THE PULSE

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OF LONG ISLAND



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CHAIR'S MESSAGE



As we close in on two months of shutdown and social distancing, we are reminded how valuable our interactions and associations are. The return to something resembling normal may not occur for some time and attitudes and interactions may change drastically. Given the status of Suffolk and Nassau as some of the most stricken areas of the state, Long Island Section still has no scheduled meetings on the calendar. However, the **Awards Banquet** was rescheduled for September 23, and the **MTT Symposium** is planned to return April 2021. Let's hope the status quo at that time is something we all can accept.

Volunteers are still busy, however. A recent meeting of the Membership Development Committee proposed several ideas to try to invigorate the Section. One of the results of the committee's efforts is the explication of member benefits referenced on page 6 of this issue. Perhaps we are not all familiar with them, or perhaps the word does not get out as widely as it should. To that end, the Committee made a commitment to boost the Section's presence on social media, specifically LinkedIn, which would be a more natural site than others for the membership to visit.

The Section has also undergone a recent audit by the Internal Audit Department of the **IEEE**. This does not occur frequently and it is a bit of ill timing that it occurs this year, but Sandy Mazzola has been handling the details of our transactions and we expect a good outcome from the audit. Some policies on receipts and venue contracts may change, but those changes will become apparent as the Executive Committee takes up the audit results.

Given the nature of the times we are living in, it is heartening to know that the IEEE is providing some benefits that are normally not available. **IEEE Explore** is providing free access to Covid-19 related research, which may be inspiration for some of our members to investigate how the **IEEE** can be involved in providing solutions to problems faced by health care providers. It is quite possible that in the near term we might form an ad hoc group to investigate these areas further. Contact me at chair@ieee.li if interested. The **Spectrum** has a dedicated **Covid-19 Resource List** as well.

There are also international meetings that are now online. Most have been canceled, but some have not. A few of the upcoming online conferences are:

- **The IEEE Blockchain conference**
- **The Wireless and Optical Communications Conference**
- **The International Conference on Acoustics, Speech and Signal Processing**

Many more are on the **IEEE Conference** schedule calendar. The online presence of these conferences is actually an opportunity, since they normally would be scattered around the world.

All is changed, but all is not lost. Let us stay healthy and safe and pray for an effective end to this pandemic.

Regards,

Arnold Stillman
2020 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

IEEE LI SECTION SOCIETIES and CHAPTER OFFICERS

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<p>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.</p>		 <p>SYSTEMS COUNCIL (SYSC) Chair: Stephanie White Vice Chair: Vacant Email: systems@ieee.li</p>	 <p>TECHNOLOGY & ENGINEERING MANAGEMENT SOCIETY (TEMS) Chair: Brian Quinn Vice Chair: Barbara Porter Email: tmc@ieee.li</p>

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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Please contact us at pulse@ieee.li for advertising rates.



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 YOUR VOICE BE HEARD

IEEE MEMBERS BENEFITS: RESOURCES DURING COVID 19 PANDEMIC



To help members and their families, the IEEE offers membership benefits such as resources of its products, services, courses, and tools.

The health and safety of the IEEE community is the organization's first priority.

In this time of uncertainty, IEEE has compiled a summary of member only benefits from across IEEE that you can use as you work or learn from home. We hope that these resources will continue to provide you with member value as we all work together to continue our shared mission to advance technology for humanity.

EDUCATIONAL RESOURCES

Free Virtual Events to Help You Transition to eLearning.

Check out the latest virtual events hosted by **IEEE Educational Activities**. Engage with industry experts and innovators on the latest advancements in technology and engineering, and STEM education.

<https://connect.ieee.org/v04W0U4w0a3HGy3qP039000>

Continuing Education Courses at Your Fingertips as You Work from Home

The **IEEE Learning Network (ILN)** gives members easy access to online learning content from across IEEE, all in one place. Browse hundreds of courses on core and emerging technologies, leadership skills, and more. Check out this week's selection of courses that active IEEE members can access for just US\$10 each with the code **ILNFIVE4**

<https://connect.ieee.org/ZPU4y0q6a000090Wz303HG4>

TECHNICAL CONTENT

IEEE Computer Society ComputingEdge Newsletter Available to all IEEE Members

Computing Edge is your free source for highly relevant news & research on all aspects of computing technology. This monthly digest republishes the top technology content from our 12 premier magazines, emphasizing current trends across the technology spectrum to keep you up to date on the newest developments regardless of your area of specialty.

<https://connect.ieee.org/ZPU4y0q7a000090WA303HG4>

IEEE Tech Talk Virtual Panel Series

Check out a new virtual panel series featuring subject matter experts discussing the convergence of the latest technologies. The first three panels on topics covering "*Personal Digital Twins*," "*Student and Child Data Privacy*," and "*Daily Challenges of 4G, 5G, and IoT*" are now available on demand. Visit the page to register for future events!

https://innovationatwork.ieee.org/events/techtalk-panel/?utm_source=mbb&utm_medium=20200420&utm_campaign=techtalk

16TH Annual IEEE Long Island Systems, Applications & Technology Conference

LISAT 2020

Unfortunately, we have been informed that Farmingdale State College, the site of our 2020 (Long Island Systems, Applications and Technology) LISAT Conference, is canceling all external events through the Spring 2020 Semester. Consequently, **we have cancelled our 2020 LISAT Conference**, which was scheduled for May 1st. We deeply regret these circumstances and hope that the coronavirus pandemic will begin to decrease in the near future. **We look forward to next year's LISAT 2021 Conference.**

In these turbulent times LISAT has agreed to continue to fund \$2500 for ten (10) 2020 Student Scholarships which are once again being matched by the Farmingdale Foundation.

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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



In Memoriam

RICHARD "DICK" KNADLE LONG-TIME IEEE LI MEMBER

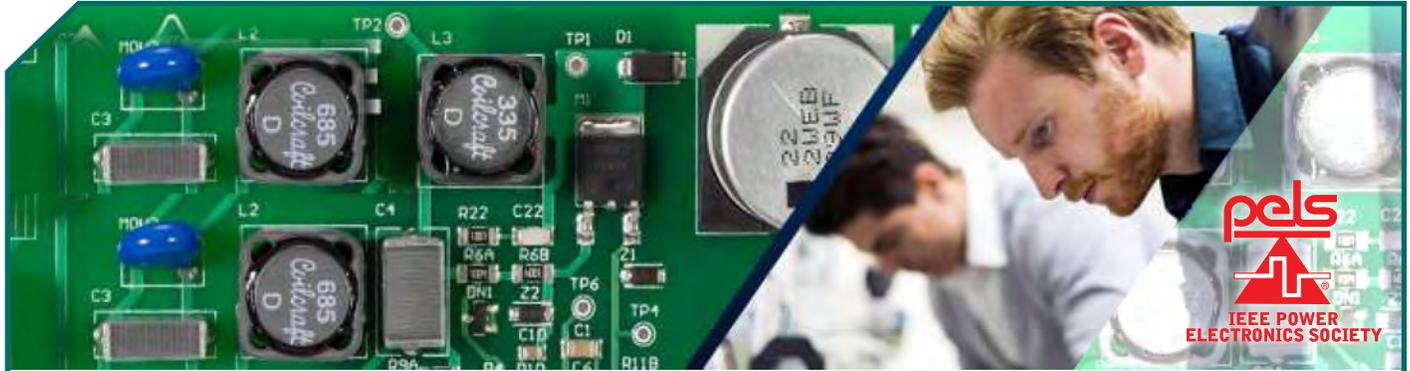
It is with great sadness for the IEEE LI Section, LIMARC and the amateur radio community to report to you the passing of Dick Knadle, K2RIW. For 38 years we have been blessed by the presence of someone who wanted nothing more than to teach others about all there was to know about electronics, ham radio, and just about anything else an inquiring mind would want to know. Dick was brilliant and all of us were covered by the light of learning that he cast upon us.

Dick attended Pratt Institute (1958-64) and earned his B.E.E. From 1964-2000, Dick was Senior Staff Engineer, Airborne Instrument Labs at RF Communications BSEE-RCA. During his career, Dick won many awards including the IEEE Regional award for New techniques in Electrical Engineering, the Eugene Frubini Award for technical Innovation, and was the awarded ARRL 2010 Technical Service award. He holds has six patents and was recognized for his service to Ham radio as NCS operator for 27 years for the Technical net on the Long Island Mobile amateur radio clubs repeater.

There are no funeral arrangements at this time and in the present circumstances, much is uncertain. We will keep you informed. At some point, we believe there will be a memorial service. Our deepest condolences to the family.

Posted on April 27, 2020 from limarc.org and hamgallery.com





THURSDAY, NOVEMBER 5, 2020 • **RADISSON HOTEL**, 110 MOTOR PARKWAY, HAUPPAUGE LI • **NOON TO 8 PM**

IEEE LI SECTION **POWER ELECTRONICS SYMPOSIUM 2020**

All professionals (engineers, managers, etc.) involved in the use, design, qualification, test or manufacture of power supplies, power converters, power management, servos or energy storage are invited. All sectors of power electronics are represented including military, industrial, medical, space, consumer and automotive.

CALL FOR PAPERS

Abstract, viewgraphs, speaker bio and speaker contact information are due **October 9, 2020**. Scheduling of qualified papers is accomplished on a first-come/first-served basis. Notification of acceptance by **October 16, 2020**.

www.ieee.li/pes



FREE GENERAL ATTENDANCE

REGISTRATION OPENS APRIL 2020

A free invitation is extended to all Engineers, Managers, other Professionals and Students involved in the use, design, qualification, test or manufacture of power supplies, power converters, power management or energy storage. Registered attendees will receive complimentary networking lunch, admission to the exhibit floor, technical lectures, and a complimentary networking dinner.



EXHIBITORS

REGISTRATION OPENS APRIL 2020

Limited exhibitor space is available to LI companies & reps that cover LI involved in the design, qualification, test or manufacture of power supplies, power converters, power management or energy storage. Tables are 2.5' x 8' and are provided with two chairs. All exhibitors are invited to provide business cards and giveaways for the swag bags. Exhibitors are also invited to enjoy the complimentary networking lunch and the complimentary networking dinner. Exhibitor tables are offered at \$400.



SPONSORS

REGISTRATION OPENS APRIL 2020

A sponsorship entitles you to one free table with preferential placement. In addition, your company logo is prominently placed on the 200 swag bags, symposium flyer, and on all event posters. As a sponsor, you are also entitled to have up to two business cards and two items placed in the event swag bags. The number of sponsorship opportunities is limited to five and are available on a first-come, first-served basis. Sponsorships are offered at \$1000.

FOR MORE INFORMATION, GENERAL REGISTRATION, EXHIBITOR REGISTRATION, SPONSOR REGISTRATION AND CALL FOR PAPERS: www.ieee.li/pes

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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.



ENHANCE YOUR MEMBERSHIP—JOIN AN IEEE SOCIETY

IEEE Societies provide members with opportunities to connect with experts and network with colleagues locally and abroad—all while staying up-to-date on technology and trends in their industry.



GIFT OF MEMBERSHIP

IEEE membership delivers access to the industry's most essential technical information and provides networking opportunities both locally and globally. Members have the ability to stay current in their chosen profession, connect with peers, and invest in their future.



MEMBER-GET-A-MEMBER

Consider sharing your IEEE membership experience and get rewarded for doing so. Through the Member-Get-a-Member (MGM) program, IEEE rewards your efforts in recruiting new members. Your local IEEE Section can also benefit.



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- Network with other professionals in your local area or within a specific technical interest
- Mentor the next generation of engineers and technologists and so much more.

IEEE members can access information on local events and activities by signing in to myIEEE, the members' personalized gateway to IEEE membership. In addition, members can also:

- Access individual Society memberships and subscriptions
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 - Find upcoming conferences
- Learn more about individual benefits
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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!



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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THE IEEE CONSULTANTS NETWORK OF LONG ISLAND (LICN)

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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FARMINGDALE STATE COLLEGE SECURITY SYSTEMS AND LAW ENFORCEMENT TECHNOLOGY

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.

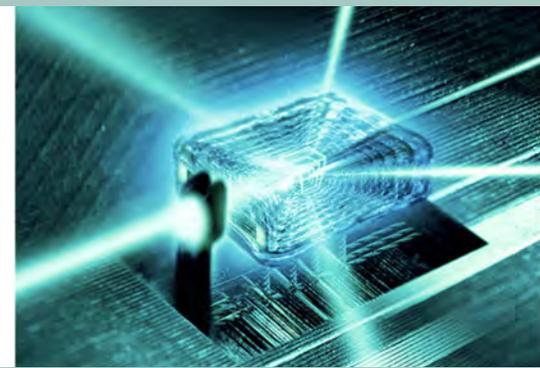
APPLICATION INSTRUCTIONS:

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



THE **PULSE**
OF LONG ISLAND