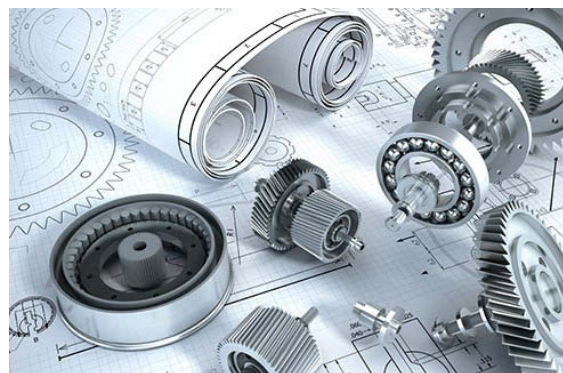
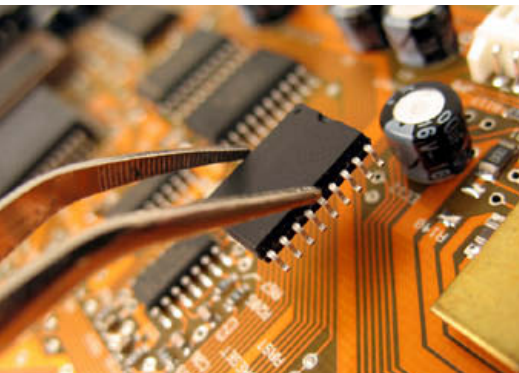




# THE PULSE

MARCH 2020 | VOL. 67, NO. 3

OF LONG ISLAND



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# CHAIR'S MESSAGE



As spring approaches we all look forward to one of the main events of the year for the **Long Island Section Awards Banquet**. This year's ceremony and dinner will be at the Crest Hollow Country Club, as it was last year. The date is March 25, so please put it on your calendar. The keynote address will be by Michiko Minty of Brookhaven National Laboratory. She has titled her speech "*America's Next Collider*" and will be of interest to all Long Islanders who are pleased that BNL was awarded the contract to build the Electron-Ion Collider, as reported in *Newsday*, January 12. The Velio Marsocci award for this year's outstanding student branch will go to the Farmingdale State College Student Branch for "*... dedicated commitment to providing opportunities to IEEE Student Branch members to develop professionally and technically in Electrical and Computer Engineering Technology and continuous support of the LISAT Conference.*"

Also this year, we note with sadness the passing of a stalwart of the section, Jesse Taub. Long a member of the Executive Committee and chairman of the Awards Committee. Jesse was integral to the operations of the Section and a valuable and respected voice among the membership. In his honor, the Section and the Executive Committee has created the Jesse Taub Lifetime achievement award. The first recipient of the award, and well-deserved I might add, is Victor Zourides for "*... outstanding contributions and dedication to the IEEE, Region 1 and the Long Island Section and its members.*"

Although the Awards Banquet is the big event in March, the calendar includes several significant dates:

- **March 23:** *Radio Frequency Sensing in Healthcare: Detection of Falls, Gait Abnormality and Vital Signs*
- **April 16:** **2020 LI RF/Microwave Symposium**
- **May 1:** **Long Island Systems, Applications, And Technology (LISAT) Conference**
- **October (date TBA):** **Commemoration of the RCA Radio Central site** in Rocky Point, ([link to a map of the site at the time](#))
- **November 5:** **IEEE Long Island Power Electronics Symposium**

Also planned for later in the year is a Social Security planning meeting presented by Robert Leitner for the membership. May is the most likely month and as details become available I will post the time and place.

Finally, to digress into a short historical reflection, there were two notable obituaries this year, Katherine Johnson, the NASA "computer" of lunar mission trajectories and also of *Hidden Figures* fame, and Tony Brooker, who was the developer of Autocode, the first computer program that was not in binary. They are notable because they form a clear demarcation from the age of manual computation to that of machine computation. In Katherine Johnson's case, her hand calculations of flight trajectories were validated by John Glenn, just as the movie recreated. From the *NY Times* obituary, "*If she says the numbers are good,*" Glenn declared, "*I'm ready to go.*" Although not an IEEE member, Johnson received the IEEE President's Award at the 2019 IEEE Vision | Innovation Challenges Summit. Anthony Brooker was associated with the British IET or the Institution of Engineering and Technology. Were he famous for Autocode alone, his legacy would be assured. However, once he started to assemble a team of coders for the new programs, he hired two women among them. He married one of them, Vera Hewison, a math graduate turned programmer. Then the story becomes remarkable, for another of the women was Mary Lee Woods. Mary Lee Woods is, in her own words, "*the grandmother of the web.*" Her son is Tim Berners-Lee, the inventor of the World Wide Web. Is there an engineering gene?

Finally, please make an effort to seek out and attend IEEE conferences, meetings and seminars. Not only do they contribute to professional advancement, but they benefit the Section as well. Since we are all volunteers in the IEEE, attendance is a good thing.

Regards,

**Arnold Stillman**  
2020 IEEE Long Island Section 2020 Chair

## THE PULSE OF LONG ISLAND



*The Pulse of Long Island* is produced by the Long Island Section of the Institute of Electrical & Electronic Engineers. It is published monthly except during July & August.

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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](http://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](mailto:membership@ieee.li)

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



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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)

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# 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](mailto: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](mailto: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](mailto: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

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

# 2020 ANNUAL AWARDS CEREMONY

Presentation and Dinner

**WHEN:**  
**Wednesday,**  
**September 23, 2020**

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

**TIME:**  
**5:30 pm**

**Arnold Stillman**  
*Chair, IEEE LI Section*



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





Backscatter Article Reprinted from IEEE Insight, February 19, 2020

## JOSIE THE RIVETER

Artist J. Howard Miller's poster created in 1942 came to represent all "Rosie the Riveters." I met Josie the Riveter on 29 June 2018, at the American Airpower Museum in Farmingdale, N.Y., where she was being honored for her service at Republic Aviation during World War II. Josie (Josephine Rachiele) was twenty years old in 1943 when she joined Republic as a riveter on its famous P-47 fighter plane production line.

In the 1920s and 1930s almost all factory jobs involving machinery such as lathes and power welders had been the strict domain of men. Women workers predominated in shops fabricating clothing as well as in secretarial and clerical jobs. They were notably absent from the United States aircraft industry; prior to World War II they were believed to contribute about one percent of its total employment. In 1943, two years following active entry of the United States into the war, some 300,000 women worked in the aircraft industry, representing about 60 percent of its total workforce. Most, like Josephine Rachiele, had been encouraged to do so because men were in short supply, large numbers of them having enlisted or been drafted into the armed services.

Soon the women employed became known as "Rosie the Riveter." Some had actually assumed riveter jobs, but others operated similar production equipment, or worked in production-support jobs.

## THE ARRIVAL OF "ROSIE"

The fictitious Rosie the Riveter is believed to have been introduced through a song composed in 1942 and popularized by the Vagabonds in 1943.

Rosie was described in verse as "All day long, whether rain or shine/She's part of the assembly line/She's making history, working for victory."

In May 1943 the Saturday Evening Post published a cover of Rosie created by Norman Rockwell. Her feet were resting on a copy of Hitler's Mein Kampf. Mary Doyle (Keefe), who had posed for the photo used by Rockwell to produce the cover, was paid \$10. (In 2002, the original Rockwell painting sold at Sotheby's for close to \$5 million.)

In 1942 artist J. Howard Miller had created a portrait for Westinghouse with the headline "We Can Do It." Although its glamorous depiction of a bandana-wearing production worker was unnamed, over time it has become the principal image associated with Rosie the Riveter. The photo is believed to be that of Naomi Parker, a war worker at Alameda Naval Air Station. (Although I was briefly stationed at Alameda NAS during the war, my shipmates and I were not then aware of Parker's role.)

## FINALLY MEETING ROSIE (OR JOSIE)

My first meeting with Josephine Rachiele had taken place some 75 years following creation of the famous "We Can Do It" poster. At the American Airpower Museum, Josie was presented with an updated poster with the title "We Did It!" In it her photo replaced that of Ms. Parker. Josie readily describes her work at Republic Aviation. In an article published in Newsday she recalled how her hands would vibrate as she used a rivet gun to shoot a rivet through the hole on part of the P-47 fighter plane. Her partner would back the rivet-stand with a steel bar wedged against the part.

The P-47 was a 13,500-pound fighter plane manned by just one pilot, who controlled eight machine guns and a single 500-pound bomb. P-47s were flown as cover for B-17 bombers over Germany. In all, more than 15,600 were built, some 9000 at Republic Aviation.

Josie's work consisted of five 10-hour days, plus eight hours on Saturday. She was paid 60 cents an hour—by war's end it had been increased to 90 cents. She then gave up her job to a returning veteran, but rejoined Republic a year and a half later. Josie's total time with Republic was more than 40 years.

She also served as treasurer of the Long Island-Republic Aviation Historical Society and was named vice president of the P-47 Alumni Association.

Josie (or Rosie—she is pleased to answer to either) is a fine representative of the Rosie the Riveter family. She and her compatriots played an important role in helping women become a significant part of today's technical and engineering professions.



Josephine Rachiele holding the poster created in 2018 with her own image replacing the original, & on the right, her Republic Aviation ID badge.

## RESOURCES

Rosie the Riveter, <https://www.history.com/topics/world-war-ii/rosie-the-riveter> retrieved 7 Jan. 2020

Beaty, A., "Rosie Revere, Engineer" <https://www.goodreads.com/book/show/17290220-rosie-revere-engineer>

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Wise, N. B., and C. Wise, *A Mouthful of Rivets: Women at Work in World War II*, Jossey-Bass Publications, 1994.

Neubeck, K., and L. E. Douglas, *Airplane Manufacturing in Farmingdale*, Arcade Publishing, 2016.



Donald Christiansen is the former editor and publisher of *IEEE Spectrum* and an independent publishing consultant. He is a Fellow of the IEEE and a Long Island Section member. He received the Section's Lifetime Achievement Award in 2016;



## 2020 IEEE LONG ISLAND SECTION ANNUAL AWARDS CEREMONY AWARDEES

### LONG ISLAND SECTION CHARLES HIRSCH AWARD

**PAWEL JANCZYKOWSKI**

*For technical excellence in the development of airborne radar systems.*

### LI SECTION ATHANASIOS PAPOULIS OUTSTANDING EDUCATOR AWARD

**WEI LIN**

*For outstanding educational methodologies through innovative computing techniques in Biomedical Engineering.*

### LONG ISLAND SECTION ALEX GRUENWALD AWARD

**ROBERT DIFAZIO**

*For outstanding support of the LISAT Conference and distinguished technical leadership in the wireless industry.*

### LONG ISLAND SECTION HAROLD WHEELER AWARD

**BABAK BEHESHTI**

*For technical achievements and outstanding management of the NYIT College of Engineering and Computing Sciences.*

### LONG ISLAND SECTION JESSE TAUB LIFETIME ACHIEVEMENT AWARD

**VICTOR ZOURIDES**

*For outstanding contributions and dedication to the IEEE, Region 1 and the Long Island Section and its members.*

### ORGANIZATION OF THE YEAR AWARD

**IEEE CONSULTANTS NETWORK OF  
LONG ISLAND (LICN)**

*For providing a constant source of outstanding level technical presentations to the Long Island engineering community.*

### LI SECTION OUTSTANDING YOUNG ENGINEER AWARD

**PENG ZHANG**

*For contributions to reliable and secure distributed energy resources and microgrids.*

### LI SECTION VELIO MARSOCCI OUTSTANDING STUDENT CHAPTER AWARD

**FARMINGDALE STATE COLLEGE  
STUDENT BRANCH**

*For dedicated commitment to providing opportunities to IEEE Student Branch members to develop professionally and technically in electrical and computer engineering technology and continuous support of the LISAT Conference.*

**TWO DESERVING RECIPIENTS:**

### OUTSTANDING VOLUNTEER AWARD

**RONALD DELUCA**

*For contributions instrumental to the technical program of the Long Island Power Electronics Society Symposium.*

**DAVE MESECHER**

*For many years of dedicated service to the IEEE Long Island Section as Chair of the Section, Communications and Aerospace and Electronics Society Chapters as well as the LISAT Technical Program Committee.*

### REGENT 1 AWARDS

#### TECHNOLOGICAL INNOVATION AWARD

(INDUSTRY OR GOVERNMENT)

**ROMAN KHAZANOVICH**

*For innovative contributions to IFF design and development.*

#### TECHNOLOGICAL INNOVATION AWARD

(ACADEMIC)

**MATTHEW D. EISAMAN**

*For contributions to the field of materials nanoengineering applied to next generation optical and electronic devices*

#### OUTSTANDING SUPPORT FOR THE MISSION OF THE IEEE AWARD

(MGA, REGION 1 AND/OR SECTION)

**JOHN SCHMIDT**

*For dedicated and creative service as Long Island Section webmaster and the LISAT conference by introducing vTools*



After the obvious things including postponed vacations, tasks around the house, and taking courses in arcane subjects- they often search for another avenue of satisfaction. I'm writing to suggest an activity which I and many others have found fulfilling, volunteering in a cause which helps their community and has a technical aspect as a bonus. As a life senior member of the IEEE who worked since 1955 for aerospace companies on Long Island and then as a consultant, I faced this dilemma when I retired in 2003. Since then, I've been devoting my time to a program which provides free computers to low income families and veterans (5400 computers to-date). The mechanism for doing so is embodied in the **Community Computer Connections Program**. CCCP's sponsor, The Retired Senior Volunteer Program, is a not-for-profit organization.



I encourage retired (or soon-to-retire) IEEE members on LI, to consider joining CCCP. Volunteering is an activity which I and many others have found fulfilling and has a technical aspect which is a bonus for cause which helps the Long Island community.

# WHAT DO IEEE'S DO AFTER RETIREMENT?

JOEL BECKER, *IEEE Life Senior Member*

Actively working members might also appreciate the opportunity to spend their spare time working with us. While over the years CCCP has gotten publicity via *Newsday* and other Long Island publications, we have neglected a logical source of volunteers - the IEEE section. We have a large and increasing backlog of requests for laptops. It is my hope that this article might not only provide some badly needed volunteers, but also offers of laptops.

CCCP's volunteers come with experience & skills learned throughout their lifetimes. They gain the satisfaction of seeing these skills put to good use to enrich the community at large. For more information, contact me, I'd be happy to answer any questions.



## TECHNICAL VOLUNTEERS

- Refurbish computers
- Deliver computers and install them for clients. (5600 to date)
- Provide remote "call center" computer repairs from their homes
- Repair or exchange computers when a client's computer malfunctions

## MANAGEMENT/ADMINISTRATIVE VOLUNTEERS

- Solicit donations (computers & financial) – laptops are urgently needed
- Coordinate refurbishing, delivery and repair assignments
- Contact Potential Client Agencies
- Create and maintain Social Media platforms

Joel Becker, *CCCP Consultant*

### Community Computer Connections Program

Retired Senior Volunteer Program

811 West Jericho Turnpike, Suite 103W, Smithtown, NY 11787

Phone: 631 979-949 Personal phone: 516 639-1806

<http://www.rsvpsuffolk.org/cccp/index.php>

## MARCH EVENTS

**MARCH 5**

*THE IEEE CONSULTANTS NETWORK OF LONG ISLAND (LICN) LECTURE:*  
**LASERS and PARTICLE BEAMS**

**SPEAKER:** Viviana Vladutescu  
**LIU-Post Campus**, Lorber Hall,  
720 Northern Boulevard,  
Brookville, LI

**TIME:**  
6:30 PM - Refreshments  
7:00 PM - Presentation



**SEPTEMBER 23**  
*IEEE LONG ISLAND SECTION*  
**ANNUAL AWARDS CEREMONY**  
**Crest Hollow Country Club**  
8255 Jericho Tpke., Woodbury, LI  
5:30 PM

## LOOKING FOR AN UPDATE ON SECTION EVENTS?

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

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## IEEE computer society

### SHARE YOUR EXPERIENCE PRESENT YOUR WORK TO THE IEEE

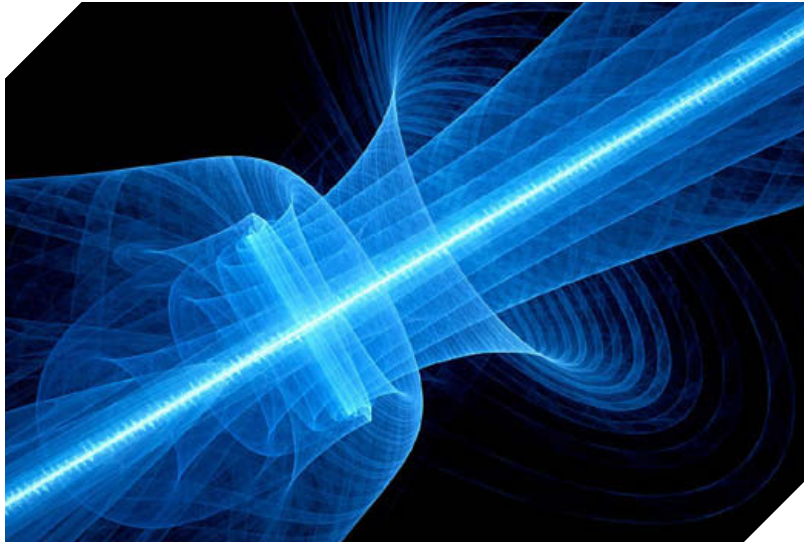
**Working on an interesting project? Or have an interesting topic to talk about?  
A startup ready to spread a word, or in need of beta testers with computer knowledge?**

**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](mailto:computer@ieee.li) with your suggested topic.



## The IEEE Consultants Network of Long Island (LICN) is presenting a lecture titled: **LASERS and PARTICLE BEAMS**

**DATE:**

Thursday, March 5, 2020

**SPEAKER:**

Viviana Vladutescu

**LOCATION:**

**LIU-Post Campus**, Lorber Hall,  
720 Northern Boulevard, Brookville, NY

**TIME:**

6:30 PM - Refreshments  
7:00 PM - Presentation

**COST:** This seminar is free and all are invited. However, there will be a \$10 charge for CEU Credits

**WHO SHOULD ATTEND?**

Engineers who are interested in the developments of and issues regarding particle beam technology.

**ABSTRACT:**

Ultra Fast High Power Lasers (UFHPL) are used in particle beam acceleration for creating radiation sources, free electron lasers, colliders, particle therapy, industrial or security applications, etc. This short presentation focuses on the synergies between lasers, accelerators, and plasma. It also includes the basics of UFHPL subsystems such as stretcher, compressors, amplifiers, and all the different components needed for chirped pulse amplification CPA/OPCPA. The parameters needed for laser pulse evaluation (laser contrast ratio, pulse length, etc) and instruments used are briefly presented. Additional concepts, such as Schwinger intensity limit, laser plasma acceleration, and accelerated particle beams and their various applications are also discussed.

**REGISTRATION:**

The presentation is open to the general public. Pre-registration is not required, but is requested. Please send e-mail to [ambertec@ieee.org](mailto:ambertec@ieee.org). There is no admission fee, but there is a \$10 fee for CEU credit payable by check only to The IEEE Consultants Network of Long Island.

**FOR FURTHER INFORMATION**

Contact John Dunn at 516-378-0979.

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IEEE Continuing Education Programs are peer-reviewed by content experts. This peer review guarantees both quality of the technical content of learning materials, as well as adherence to IEEE's strict criteria for educational excellence. All programs that pass this strict process are entitled to award IEEE Continuing Education Units (CEUs), recognized as the standard of excellence for continuing education programs in IEEE's fields of interest.

**SPEAKER BIOGRAPHY:**

**Viviana Vladutescu** has received a B.S. in E.E. from Polytechnic University of Bucharest and a Ph.D. degree in EE from the Graduate Center of The City University of New York (CUNY)/ CCNY. Dr. Viviana Vladutescu is currently working as an Associate Professor within the Electrical and Telecommunications Engineering Technology Department at the New York City College of Technology of CUNY. Additionally, she is specialized in modern optical systems used in non-contact measurements of space instruments thorough work conducted at NASA GSFC and NASA GRC; and Ultra Fast High Power Lasers and Particle Beam Acceleration through work with ELI-NP, in Romania, and ATF BNL, in US. Dr. Viviana Vladutescu has been the recipient and beneficiary of several external and internal grants of institutions such as NSF, NASA, DOE, and CUNY. Dr. Viviana Vladutescu is a Senior Fulbright Fellow, coeditor of the EARSeL eProceedings and ILRC, a Senior Member of the IEEE and a member of SPIE, the international society for optics and photonics.

**LOCATION:**

This lecture will be held at: **LIU-Post Campus**, Lorber Hall, 720 Northern Boulevard, Brookville, NY. Please see <http://licn.org/pmwiki/uploads/Events/LIU-LICN.jpg> for directions.

**COST:**

There is no admission fee, but there is a CEU fee of \$10 payable by check made out to "IEEE Consultants' Network of Long Island."



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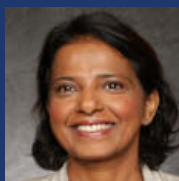
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IEEE President-Elect & Program Manager, The Missile Defense Agency



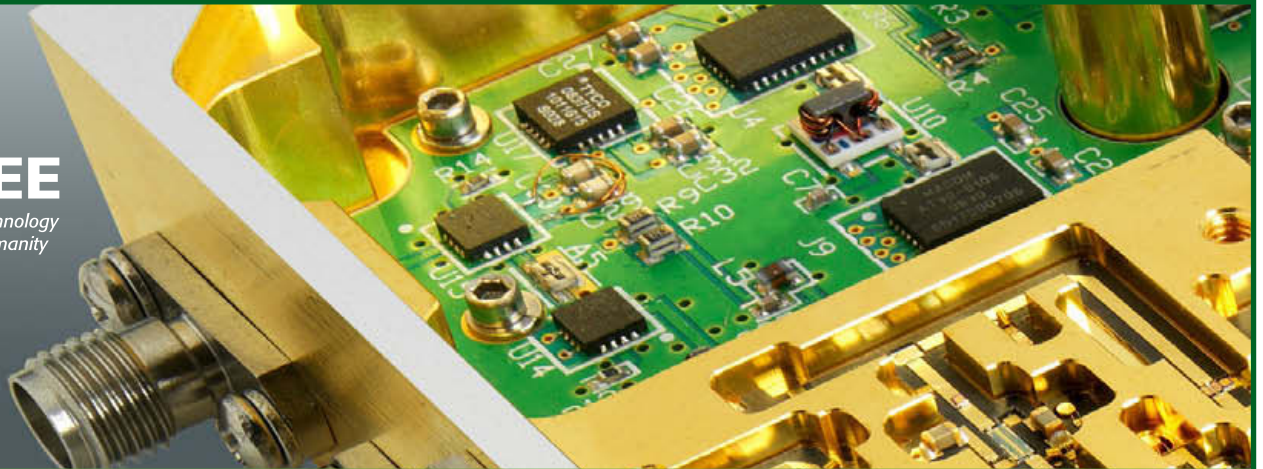
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## LONG ISLAND RF/MICROWAVE SYMPOSIUM & EXHIBITS TRENDS IN MICROWAVES - 2020

FREE ADMISSION, ALL INVITED, MEMBERS, NON-MEMBERS – BUT REGISTRATION IS REQUIRED

### Registration

This event is free for all attendees, but you must register online at [www.ieee.li/microwave](http://www.ieee.li/microwave) or scan the QR code.



### EXHIBITORS \$375 USD

(Early Registration)

More than 45 Leading RF & Microwave Companies Distributors and Manufacturer's Representatives Registered so far.  
Only few tables left!!!

### SPONSORS \$1,200 USD

- Berkley Nucleonics

The Long Island RF/Microwave Symposium & Exhibits is the area's premier annual event that brings together the Microwave, Millimeter Wave & RF community. All Long Island Engineers, Managers, Students and Technical Professionals involved in these fields are invited. Registered attendees will receive admission to exhibits, technical lectures, complimentary lunch, networking event and complimentary dinner. The first 200 registered attendees will also receive a complimentary swag bag.

**REGISTRATION FOR EXHIBITORS**  
<https://events.vtools.ieee.org/m/219576>

**REGISTRATION FOR SPONSORS**  
<https://events.vtools.ieee.org/m/219580>

**REGISTRATION FOR ATTENDEES TBA:**  
<https://events.vtools.ieee.org/m/221266>

**DATE:** Thursday, April 16, 2020

**TIME:** Arrive/Leave Anytime, Noon - 8 PM

**LOCATION:** Marriott Melville,  
1350 Walt Whitman Rd., Melville, LI 11747

**REGISTRATION:**  
5G Workshop, 8:30 AM Onwards

**SYMPOSIUM & EXHIBITS:**  
11am Onwards

*Engineers, Managers, Students and Technical Professionals interested in the latest trends in Microwave, Millimeter wave & RF Technology are all invited.*

### LECTURE, LUNCH AND DINNER PROGRAM SCHEDULE:

9:00AM – 11:30 AM <b>WORKSHOP #1:</b> To Be Announced	
11:30AM – 1:00PM <b>5G WORKSHOP #2:</b> To Be Announced	
12:00 - 1:00 PM <i>Complimentary Networking Lunch</i>	
1:00 - 1:30 PM <b>WELCOME &amp; KEYNOTE ADDRESS:</b> Prof. Shiban K. Koul <b>CIRCUIT TO SYSTEM LEVEL PRACTICAL MICROWAVE EDUCATION</b>	
TECHNICAL SESSIONS	WORKSHOP SCHEDULE
1:30 - 2:30 PM To Be Announced	1:30 - 3:30 PM <b>WORKSHOP #3</b> To Be Announced
2:30 - 3:30 PM To Be Announced	
3:30 - 4:30 PM To Be Announced	3:30 - 5:30 PM <b>WORKSHOP #4</b> To Be Announced
4:30 - 5:30 PM To Be Announced	
5:30 - 6:00 PM Acknowledgments & Closing Remarks	
6:00 - 8:00 PM Complimentary Networking Dinner with Cash Bar	

*Subject to change: please check the Symposium webpage for the latest information.*



## 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](http://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](mailto:exhibits@ieee.li). For all other information contact LISAT 2020 Technical Program Committee Chair: Dr. Ronald Pirich at [rpirich@gmail.com](mailto:rpirich@gmail.com), Conference Chair: Dr. Charles Rubenstein at [c.rubenstein@ieee.org](mailto:c.rubenstein@ieee.org) or Conference Co-Chair: Dan Rogers at [drogers@ieee.org](mailto: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.

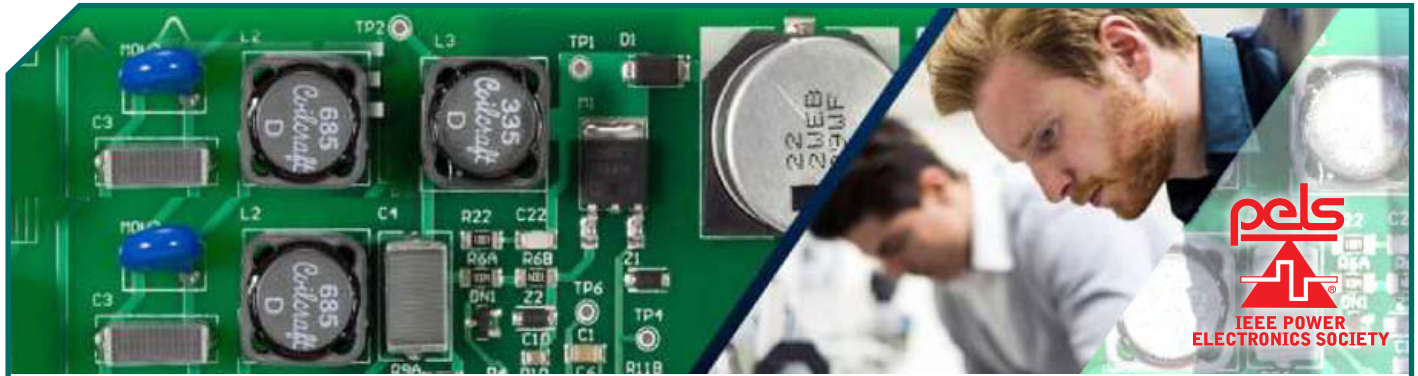
LISAT encourages submissions from all areas of engineering, science, and technology. Topics of particular interest include Surveillance & Navigation Systems, Communications (Military and Commercial), Sensors and Advanced Electronics, Photonics, Fiber Optics and Wireless Technologies and Applications, 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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## 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](http://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](http://www.ieee.li/pes)

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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.

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## 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](mailto:pulse@ieee.li)  
c.c. Life Member Chair: [life@ieee.li](mailto: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](mailto:pulse@ieee.li)

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## FARMINGDALE STATE COLLEGE SECURITY SYSTEMS AND LAW ENFORCEMENT TECHNOLOGY

### ASSISTANT PROFESSOR (2 Positions)

#### 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.

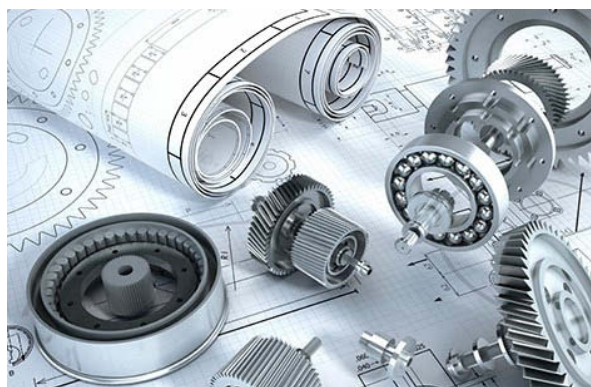
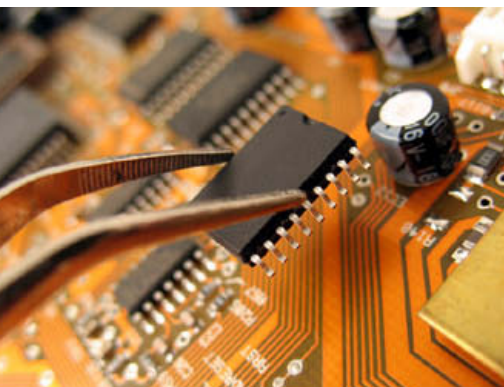
#### APPLICATION INSTRUCTIONS:

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:

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