

# THE PULSE

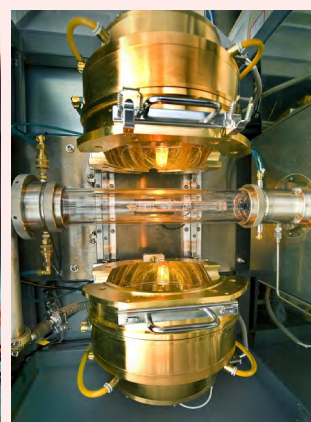
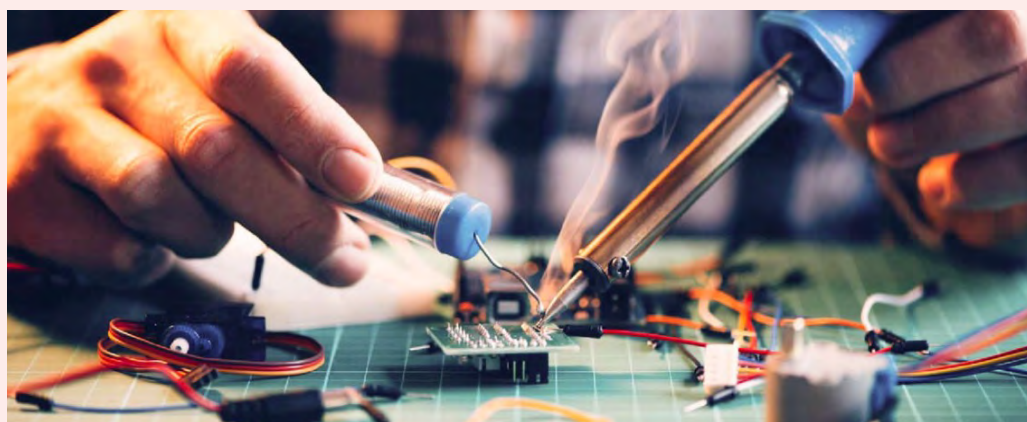
OF LONG ISLAND



IEEE



LONG ISLAND SECTION



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Greetings Long Island Section Leaders. A heartfelt thanks to all who volunteered their time to organize and promote Section activities in 2023. From popular social networking events to successful conferences and symposia, you the volunteers generously gave your time which was vital to providing value to our members.

Your willingness to volunteer your time and service was greatly appreciated.

Below are some upcoming Section events that you need to know about:

## **FEBRUARY**

- **FEBRUARY 1ST:**  
**LICN FASCINATING ANTENNAS LECTURE**
- **FEBRUARY 3RD:**  
**IEEE MEETS LUNAR NEW YEAR 2024**
- **FEBRUARY 5TH:**  
**MEMBER NETWORKING SOCIAL**

## **MARCH**

- **MARCH 21ST**  
**LONG ISLAND SECTION AWARDS BANQUET**  
Where we recognize the achievements of our Section members

As you can see, we are off to a busy start and I hope that you will support the Section by becoming involved in our many activities. As always, stay engaged by getting connected and getting involved.

Warm Regards,

**Rhonda Green**  
2024 IEEE Long Island Section Chair  
[chair@ieee.li](mailto:chair@ieee.li)





## THE PULSE OF LONG ISLAND



*The Pulse of Long Island* is produced by the Long Island Section of the **Institute of Electrical & Electronics 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.consult-li.com](http://www.consult-li.com)

### 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)

### MEMBERSHIP DEVELOPMENT

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



THE IEEE LI SECTION HAS 19 CHAPTERS. EACH CHAPTER IS A TECHNICAL SUBUNIT OF THE LI 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 LI CHAPTER'S STEERING GROUPS, PLEASE DO CONTACT THE RELEVANT CHAPTER CHAIR, VICE CHAIR, OR ONE OF THE SECTION OFFICERS.

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**February 1, Thursday**

The IEEE Consultants Network of Long Island (LICN) Lecture:  
**Fascinating Antennas For Complicated Systems, Part II**

**Speaker:** Ed Gellender

**Online Event** (via Zoom)

Please register on [meetup.com](https://www.meetup.com) to obtain the Zoom link.

7:00 PM - 9:30 PM

7:00 PM - Networking

7:30 PM - Presentation

**February 3, Saturday**



**IEEE Meets Lunar New Year 2024 event**

**Green Tea Restaurant**

1015 N. Country Rd, Stony Brook

1:00 PM - 5:00 PM

**FEE:** Members-\$10 , Non Members-\$15

Celebrate Asian culture in the IEEE Community. A Lion Dance and 5 course meal will be provided.

**IEEE** | **LONG ISLAND SECTION**  
**member social**

**February 5, Monday**



**Member Networking Social**

**THURSDAY, MARCH 21, 2024**

**IEEE** | **LONG ISLAND SECTION**  
**AWARDS BANQUET 2024**

**CREST HOLLOW COUNTRY CLUB**

8325 Jericho Turnpike, Woodbury

5:30 PM - 9:00 PM





### **LONG ISLAND SECTION CHARLES HIRSCH AWARD ART SALANDER**

*For leadership in the stationary battery/DC power industry. As the IEEE Standards Committee Chair, Art completed IEEE std. 2405 replacing NEMA PE5 as the industry standard for stationary/utility battery chargers.*

### **LI SECTION ATHANASIOS PAPOULIS OUTSTANDING EDUCATOR AWARD DR. MILAN TOMA**

*For investigating challenges in medicine & biology and then delivering engineering solutions. He has also been instrumental in supporting the Micromouse competitions and his commitment to promoting quality technical education on Long Island.*

### **LONG ISLAND SECTION ALEX GRUENWALD AWARD DR. ANDREW SASS**

*For contributions to our profession on Long Island, and to the IEEE at large, through his dedication to being a lifelong educator in the field of robotics.*

### **LONG ISLAND SECTION JESSE TAUB LIFETIME ACHIEVEMENT AWARD BILL WILKES**

*For continual and distinguished leadership contributions to the Long Island Section. Bill acted as Chair to the Robotics and Automation Society which he reinstated into the Section last year. He has brought his talent, boundless energy, technical expertise and wise focus to the Section.*

### **LI SECTION VELIO MARSOCCI OUTSTANDING STUDENT CHAPTER AWARD**

#### **STONY BROOK UNNIVERSITY IEEE STUDENT BRANCH**

*For their support at the Vilanova R1/R2 conference, participation in both the LI and MIT Micromouse competitions as well as the Zebra Technologies Tour.*

### **LI SECTION OUTSTANDING YOUNG ENGINEER AWARD JAMES MARTINO**

*For his important technical contributions to technology, including robotics, and his hard work and dedication to IEEE. James also acted as the Section's 2023/2024 Vice Chair.*

### **LONG ISLAND SECTION OUTSTANDING VOLUNTEER AWARD**

#### **LONNI MAE CHU**

*For substantial and tireless contributions to the Long Island Section. As Chair of the Women In Engineering (WIE) Affinity Group, Lonni established the Section's Annual Summer BBQ and has organized numerous events such as the 1010 Day, Lunar New Year of the Dragon and many more.*

### **REGION 1 AWARD LORENZO LoMONTE**

*For outstanding Support for the Mission of the IEEE, MGA, Region 1 and/or Section Awards.*



IEEE Consultants Network of Long Island (LICN)  
are pleased to host a talk titled:

## ***FASCINATING ANTENNAS FOR COMPLICATED SYSTEMS, PART TWO***



**DATE:**

Thursday,  
February 1, 2024

**SPEAKER:**

**Ed Gellender**

**LOCATION:**

**Online Event** (via Zoom)

*Please register on [meetup.com](https://www.meetup.com) to  
obtain the Zoom link.*

**TIME:**

7:00 PM - 9:30 PM

7:00 PM - Networking

7:30 PM - Presentation

**COST:**

This lecture is free and all are invited.

### **ABSTRACT:**

We see antennas everywhere. You likely have one or more on you right now, under the plastic cover of your cellphone or smartwatch. Cars now bristle with antennas .... AM/FM radio, GPS navigation, tire pressure monitoring .... And new driver support technology is being added regularly. Some homes still use TV antennas ... and don't forget those satellite dish antennas proliferating on rooftops.

Antennas provide a specific service – to insert information into the environment and extract it some distance away. Antennas provide the pure realization of Action at a Distance.

Many complex systems require the signals to be accurately pointed in a specific direction, even moving to follow a changing situation. Air traffic control, military combat, and space exploration put incredible requirements on their antennas. We all watch the news and ask "How do they do that?" This presentation is an attempt to provide some understanding.

The antennas used in such service are mind-bogglingly complicated, but we will break them down into digestible bite-size-chunks so we can learn their fascinating stories.

**Part 1** described antenna arrays that precisely aim their signals though mechanical movement or switching between radiating elements. **Part 2** discusses antenna arrays that remain mechanically stationary, while the signal directionality is precisely controlled by adding a specific phase shift to each radiating element.

### **FEE:**

There is no cost to attend this meeting, however, if you would like to receive Continuing Education Units (0.2 CEUs/2 PDHs) then, payment of a \$15 fee is required. You will also have to properly fill out an Evaluation Form to prove that you attended this lecture.

We accept electronic payment via Zelle. While we prefer that your payment and evaluation form are received by the day of the lecture, they must be received by the first Monday after the lecture.

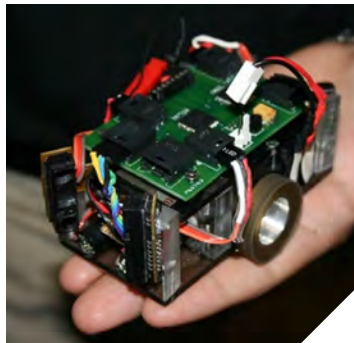
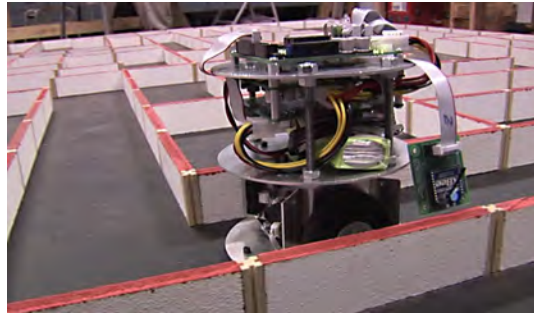
If paying by Zelle is a problem for you, then please contact John Dunn at [ambertec@ieee.org](mailto:ambertec@ieee.org) for an alternate payment method.

### **REGISTRATION:**

This seminar is free. [Click on the link below to register.](https://events.vtools.ieee.org/m/399620)

<https://events.vtools.ieee.org/m/399620>

The IEEE Robotics and Automation Society  
of Long Island is sponsoring:  
***The 2nd ANNUAL MICROMOUSE  
COMPETITION of LONG ISLAND***



**WHEN:**  
May 10, 2024

**WHERE:**  
NYIT, Anna Rubin Hall  
Room Aarh- 310/12  
Old Westbury, N.Y.

**TIME:**  
11:00 AM - Set-up  
1:00 PM - Competition

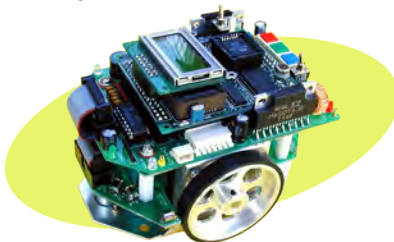
**FEE:**  
There is no entry fee for  
this event. Professional and  
college entries must be  
IEEE members.

In addition to the traditional **Micromouse Competition**, in which a palm sized autonomous robot navigates a maze to a designated destination, a second robotics competition is scheduled: **"Corsa Libirinto"**. "Corsa" is a labyrinth race which can be entered with the same or a different micromouse autoumoum racebot. In this race, a pit crew can service the racebot during the race.

In addition, a new professionals division has been established for college graduates and graduate students.

**MICROMOUSE  
2024 DIVISIONS:**

- Professionals
- College
- High school



All IEEE Student Members and Members are eligible to participate. High School Students (non-IEEE Member) will attend a 30-minute Introduction Session about IEEE and how IEEE can help them when they are Undergraduate Students at a college.

All competitor teams give presentations of their robots prior to the competition, vying for the "best presentation" prize and then compete in the micromouse competition and the labyrinth race for 1st, 2nd, and 3rd place in each.

For a copy of the competition guidelines/rules and registration information, e-mail event coordinator, Dr. Andrew R. Sass at: [arshacker@aol.com](mailto:arshacker@aol.com)

**REGISTRATION:**

To participate in the Competition, please register by filling out registration form below by clicking on this link:  
<https://forms.gle/3Hnj3RTrb9A1Nnfo9>

If you have questions, please email Dr. Andrew R. Sass, Vice Chair, IEEE RAS of Long Island at:  
[arshacker@aol.com](mailto:arshacker@aol.com)





# 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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LONG ISLAND SECTION

### 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.



LONG ISLAND SECTION

THE **PULSE**  
OF LONG ISLAND

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

# IEEE MEMBERSHIP and MEMBER BENEFITS

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.



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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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## 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](mailto:pulse@ieee.li)  
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)

## WE WANT YOUR STORIES



## IEEE CONSULTANTS NETWORK OF LONG ISLAND

### 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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