



# THE IEEE: WHAT'S IN IT FOR ME?

( [www.ieee.org](http://www.ieee.org) [www.IEEE.LI](http://www.IEEE.LI) )

## Presenters:

Bill DeAgro – Chairman, IEEE Long Island

Sandy Mazzola – Vice Chair, Long Island

Nick Golas – Membership Development Chair

Michael Co – Student Activities/GOLD Chair

Dan Rogers – LI Computer Society Chair



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- I. Introduction to IEEE
- II. IEEE: Its Value to Students and Young Engineers
- III. Graduates of the Last Decade (GOLD)

# TODAY'S PRESENTERS: IEEE LONG ISLAND SECTION OFFICERS

Bill DeAgro – IEEE Long Island Section Chair  
*(Telephonics Corporation)*



Sandy Mazzola – Vice Chair LI Section  
*(BAE Systems)*



Nick Golas – Membership Development Chair  
*(Telephonics Corporation)*



Michael Co – Student Activities/GOLD Chair  
*(Parker Hannifin)*



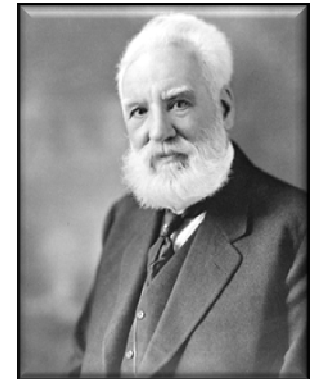
# INTRODUCTION TO IEEE: HISTORY

## ... 125 Years in the Making

### American Institute of Electrical Engineers-AIEE

- Founded in NY in 1884
- Major Fields:
  - Power (Thomas Edison)
  - Telegraphy (Norvin Green)
  - Telephone (Alexander Graham Bell)

First technical meeting in Philadelphia



# INTRODUCTION TO IEEE: HISTORY

## ... 125 Years in the Making

### Institute of Radio Engineers – IRE

- Formed in 1912 (*after Guglielmo Marconi's wireless telegraphy experiments*)
- Modeled on the AIEE, but devoted to radio
- Increased to electronics and grew faster
- 1957 became the larger group

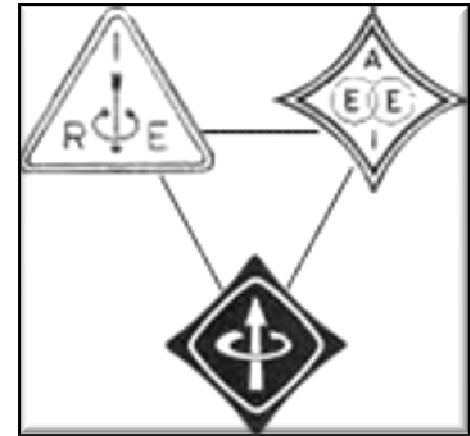


# INTRODUCTION TO IEEE: HISTORY

## ... 125 Years in the Making

### IEEE (Institute of Electrical and Electronics Engineers)

- Result of Merger of AIEE & IRE in 1963
- Consisted of 150,000 members (*140,000 US*)
- 2009: IEEE's 125th Anniversary (*~ 375,000 Members*)



# IEEE: MISSION AND VISION

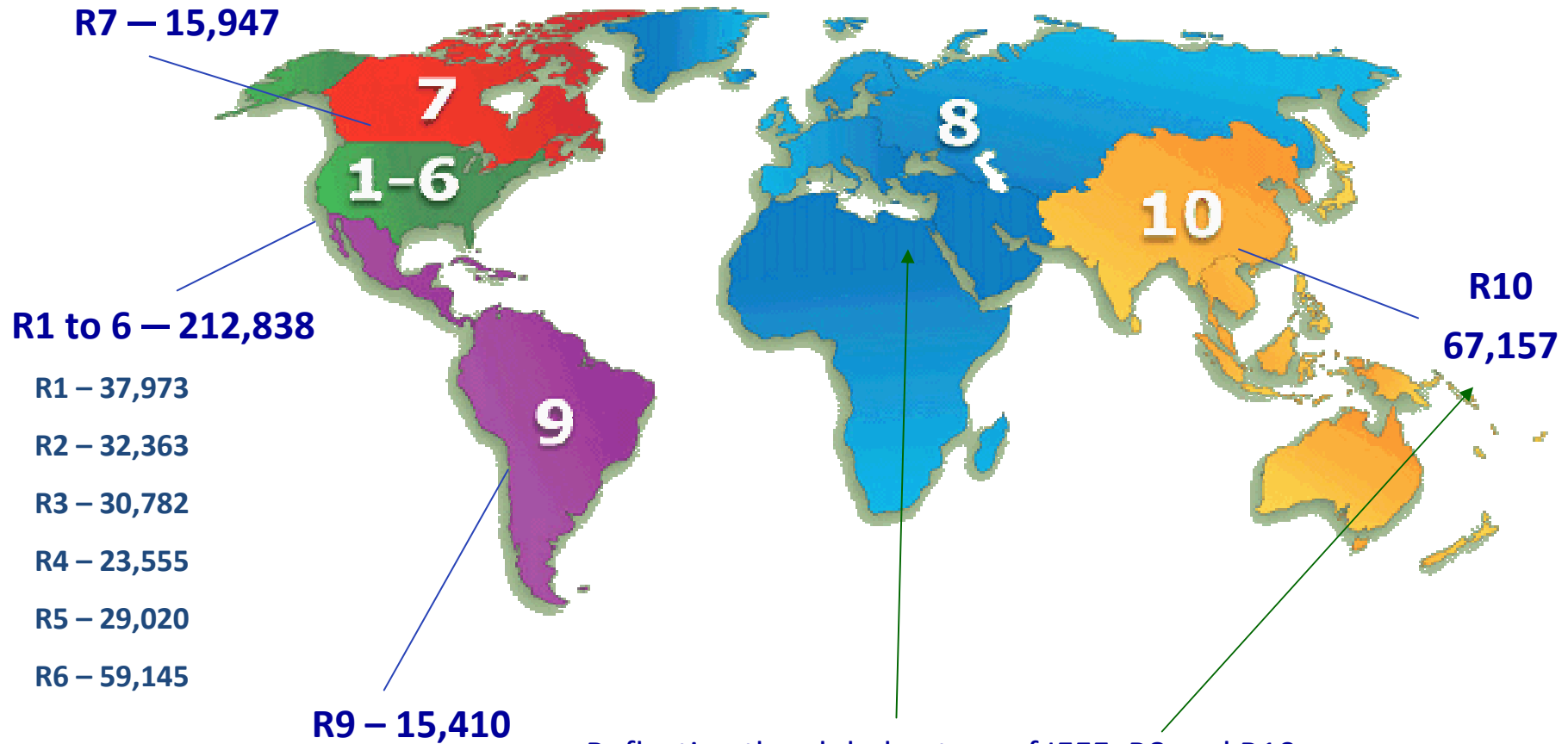
## MISSION

IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity.

## VISION

IEEE will be essential to the global technical community and to technical professionals everywhere, and be universally recognized for the contributions of technology and of technical professionals in improving global conditions.

# Membership by Region



Reflecting the global nature of IEEE, R8 and R10 are now the two largest IEEE Regions

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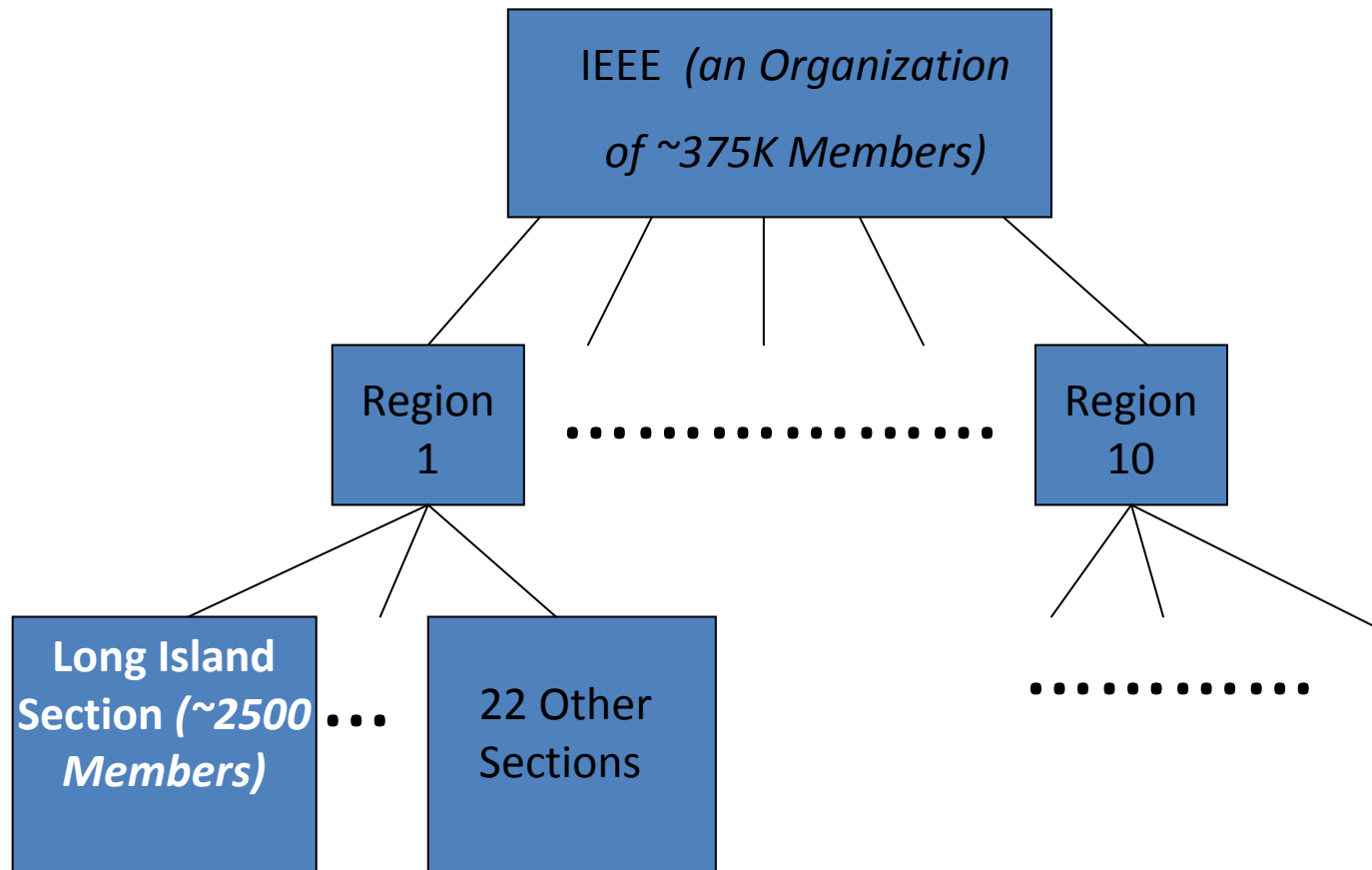
# IEEE Organizational Structure

- We're the: **“Long Island Section”** (*~ 2500 Members*)
- We're part of: **“REGION 1”** (*i.e. US Northeast*)
- **Region 1** consists of **22 Sections**
- **IEEE** consists of **10 Regions** in **>150 Countries**
- Approximately **375,000 Members** in total
- **Our Members Are: The IEEE Organization**
- **Numerous Events\***: **Organized by Volunteers**

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*\* e.g. Trainings, Lectures & Symposiums, Standards Control, Massive Technical Reservoir of Information, Awards Recognition & Ceremonies, Member Networking etc. - If ever interested in being Hands-On & volunteering, don't hesitate to contact us*

# ORGANIZATIONAL STRUCTURE



# IEEE LI SECTION OFFICERS

http://ieee.li/section\_officers.htm

id to Channels: All Favorites Friends Tools

WWW.IEEE.LI



## Section Officers, 2008



### Chairman

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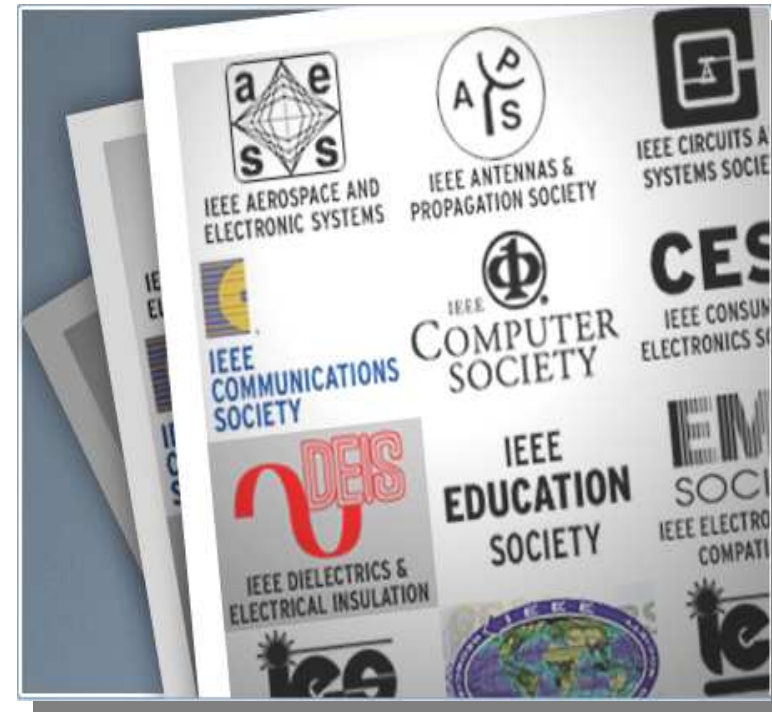
# CURRENT MISSION OF IEEE LI

1. Better Understand the Student & their needs
2. Support the Student by:
  - A. *Providing Hands-On Support to Student Activities*
  - B. *Utilize Industry Resources to Support the Student*
  - C. *Increased Communication to Students & Faculty  
(for better awareness of events & activities outside University)*
  - D. *Mentor and provide guidance with Senior Projects*
  - E. *Continue providing mentoring, guidance & support to  
Graduates of the Last Decade (GOLD)*

# Society Membership

## IEEE Society membership enhances the benefits of IEEE membership

- 38 Societies representing a full spectrum of technical interests
- Subscriptions and online content
- Local technical chapters
- Networking w/innovators, experts, and practitioners
- Members-only rates on additional publications
- Volunteering opportunities
  - ❖ Technical committees
  - ❖ Journal editors
  - ❖ Conference organizers



## Additional dues for Societies memberships

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# Society Membership

- Aerospace & Electronic Systems
- Antennas & Propagation
- Broadcast Technology
- Circuits & Systems
- Communications
- Components, Packaging, & Manufacturing Technology
- Computer
- Computational Intelligence (formerly Neural Networks)
- Consumer Electronics
- Control Systems
- Dielectrics & Electrical Insulation
- Education
- Electromagnetic Compatibility
- Electron Devices
- Engineering in Medicine & Biology
- Geoscience & Remote Sensing
- Industrial Electronics
- Industry Applications
- Information Theory
- Instrumentation & Measurement
- Intelligent Transportation Systems
- Lasers & Electro-Optics
- Magnetics
- Microwave Theory & Techniques
- Nuclear & Plasma Sciences
- Oceanic Engineering
- Power Electronics
- Power Engineering
- Product Safety Engineering
- Professional Communication
- Reliability
- Robotics & Automation
- Signal Processing
- Society on Social Implications of Technology
- Solid-State Circuits
- Systems, Man, & Cybernetics
- Ultrasonics, Ferroelectrics, & Frequency Control
- Vehicular Technology

# IEEE TECHNICAL CHAPTERS

- ❑ IEEE has over 1500 Chapters comprised of local members with similar technical interest
- ❑ Long Island Section has 14 active chapters
- ❑ We can start new chapters if enough interest is generated
- ❑ No additional dues to attend any chapter meetings

# IEEE TECHNICAL CHAPTERS

- ❑ Chapter meetings posted on [www.IEEE.LI](http://www.IEEE.LI) website
- ❑ Online registration for attending Chapter meetings
- ❑ Topics are varied and interesting
- ❑ Topic recommendations gladly accepted
- ❑ Chapters meetings allow for networking with peers, and meeting with potential and future employers

[www.IEEE.LI](http://www.IEEE.LI)





# ACTIVE LONG ISLAND CHAPTERS

- Aerospace and Electronic Systems Society
- Antennas And Propagation Society
- Circuits and Systems Society
- Communication Society
- Computer Society
- Electromagnetic Compatibility Society
- Engineering in Medicine and Biology
- Industrial Applications
- Instrumentation and Measurement Society
- Microwave Theory and Techniques
- Nuclear and Plasma Sciences
- Power And Energy
- Signal Processing Society
- Vehicular Technology

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# Benefits of IEEE Membership

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# IEEE: THE FACTS

IEEE is organized into:

- » 324 **local sections** in 10 geographic **regions**;
- » 1,784 **chapters** comprised of local members with similar technical interests;
- » 38 **societies** and 7 **technical councils**;
- » 1,616 **student branches** at colleges and universities in 80 countries;
- » 452 **student branch chapters**.

# IEEE: THE FACTS

- **375,000+** IEEE members in over **150** countries around the world
- The IEEE *Xplore*<sup>®</sup> digital library contains **more than 1.2 million documents** from IEEE and IEE journals, transactions, magazines, letters, conference proceedings and active IEEE standards.
- Each year, **over 100,000 technical professionals** attend the more than 300 conferences sponsored or cosponsored by the IEEE.

# IEEE Membership: Its benefits, its mission, the organization

## Benefits of IEEE Membership

- Keeps you technically current
- Grows your professional network locally and internationally
- Access to in-person technical forums
- Members-only discounts—IEEE products, conferences, and insurance coverage
- Provides tools for career development and advancement
- Developing critical, non-technical skills to be more effective
- Opportunities to volunteer, and give back to society

## Special Interest Memberships

- Expands the scope and depth of your technical knowledge
- Extends your professional network
- Influence the direction and application of technology through standards development
- Promotes the entry into and retention of women in engineering programs

## IEEE—the Organization

- The world's largest technical professional association
- 375,000+ members
- Local activities, and global network
- World-renowned standards body
- Sponsors 350+ conferences annually
- Publisher of 1/3 of the world's literature on electro-technology
- 125 years of heritage

IEEE Membership Goal for  
the 125<sup>th</sup> Anniversary is:

**385,000 Members**

# IEEE MEMBERSHIP: WHAT'S IN IT FOR ME?

**\$30.00 – student membership fee for one year**

**\$169.00 – regular member (half price on first year after graduation)**

## WHERE DOES MY \$30 GO?

### Microsoft Software Offer for IEEE Students

- The IEEE, in conjunction with Microsoft, is pleased to offer a wide selection of development software to IEEE Student members.
- Software highlights include Vista Business Edition, Visual Studio Team System, Expression Web Designer, Project 2007, Visio 2007, Windows Server 2003

### IEEE Spectrum Magazine

- Monthly, the award-winning IEEE Spectrum magazine explores the creation, application and implications of new technologies



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# IEEE MEMBERSHIP: WHAT'S IN IT FOR ME?

## IEEE.tv

- IEEE's Internet television, exclusive Member programming and file downloading privileges

## The Institute Newsletter

- Monthly (4 print, 8 online) newsworthy IEEE activities both in professional and technical areas

## IEEE Potentials Magazine

- 6 issues (online), the magazine for technology's rising, student innovators

## IEEE Xplore Digital Library

- Table-of-contents and abstracts (1.9 million documents)

## IEEE MemberNet

- Networks personalized to each member



# IEEE MEMBERSHIP: WHAT'S IN IT FOR ME?

## IEEE e-Mail Alias

- Identifies you as the IEEE 'family'
- Virus protection and spam filtering

## IEEE Mentoring Connection

- Peer-to-peer advice and counsel
- Participate as either mentor or mentee

## Awards & Scholarships

- Recognizes the accomplishments of IEEE members
- Enhance your resume with an IEEE scholarship

## IEEE Job Site, Career Alert

- Locate career opportunities easily and confidentially
- Weekly email newsletter containing career advice





# IEEE MEMBERSHIP: WHAT'S IN IT FOR ME?

## myIEEE –

- members-only personalized gateway into IEEE membership

## Continuing Education Partners Program

- Up to a 10% discount on online degree programs

## IEEE Society membership enhances the benefits of IEEE membership

- 38 Societies representing a full spectrum of technical interests
- Local technical chapters
- Subscriptions and online content

## IEEE Expert Now

- Online video conference tutorials, short courses & workshops



# IEEE MEMBERSHIP: WHAT'S IN IT TO ME?

## **Volunteer Opportunities: Get Involved!!!**

- probably the most important benefit from IEEE
- a rare opportunity to work with people with the same interests
- develop a professional network of individuals locally that will allow sharing of ideas and providing assistance to other fellow members

**\* THIS IS ONE AREA WE WOULD LIKE TO PUT EMPHASIS TO STUDENTS AND YOUNG ENGINEERS ON LONG ISLAND!!!**

# IEEE MEMBERSHIP: WHAT'S IN IT TO ME?

## HOW CAN I GET INVOLVED:

### As a student member:

#### **Stony Brook IEEE Student Branch**

- the only current active student branch in the Long Island Section
- the IEEE Long Island Section is planning to provide more support to this branch
- help develop/support programs for students
  - the Micromouse competition,
  - IEEE Extreme Programming
  - Industry-related events
  - Talks, etc.

# The IEEE Presidents' Change the World Competition

Recognizes students who develop unique solutions to real-world problems using engineering, science, computing and leadership skills to benefit their community or humanity

## Prizes:

IEEE Student Humanitarian Supreme: US\$10,000

IEEE Distinguished Student Humanitarian: US\$5,000

IEEE Exceptional Student Humanitarian: US\$2,500

IEEE Outstanding Student Humanitarian: US\$1,000

(up to five awarded)

People's Choice (online vote): US\$500

**The IEEE Presidents' Change the World Competition is part of the global celebration of IEEE's 125th Anniversary**

[www.ieee.li](http://www.ieee.li)



**Celebrating 125 Years**  
*of Engineering the Future*



# GRADUATING SENIORS: WHY WOULD YOU WANT TO KEEP YOUR MEMBERSHIP

## Career-Related Benefits:

### Career Alert

• Career Alert is a weekly email newsletter which contains career advice plus the job of the week from the IEEE Job Site. It provides members with links to news about engineering careers, education, and professional issues.



### Education Partners Program

- exclusive **10% discount** to IEEE members, for the following offerings:
  - On-line degree programs
  - Continuing Education
  - Certifications



### Today's Engineer

• monthly webzine devoted to the issues affecting IEEE members careers, such as professionalism, management skills, engineering performance, engineering skills and competencies. It also addresses issues such as product development practices, project management issues, innovation and entrepreneurship.



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# GRADUATING SENIORS: WHY WOULD YOU WANT TO KEEP YOUR MEMBERSHIP

## Financial Advantage Benefits:

- Insurance Services
- Financial Services
- Home & Office Services
- Travel Services

**CASE STUDY**  
Meet: Macey, a Software Developer

2005 Purchases	Non-Member Rate	Member Rate	Savings
Purchased IEEE Standard for Software Verification and Validation	\$95.00	\$65.00	• \$20.00
Purchased conference proceedings for 2005 Workshop on Information Assurance & Security	\$218.00	\$109.00	• \$109.00
<b>Total IEEE Member Savings</b>			<b>• \$129.00</b>



# GRADUATING SENIORS: WHY WOULD YOU WANT TO KEEP YOUR MEMBERSHIP

## Networking Benefits:

- Automatic membership to IEEE Local Section
- Option to add membership to IEEE Technical Societies
- Automatic membership in GOLD (Graduates of the Last Decade)



# GRADUATES OF THE LAST DECADE (GOLD)



## GOLD HISTORY

Marking the milestone of the conception of IEEE GOLD in 1996 and its launch that year at the IEEE 1996 Sections Congress, GOLD has moved forward in forming affinity groups - organized for professional development activities (technical, social, personal development, etc.)



# GRADUATES OF THE LAST DECADE (GOLD)



## **VISION:**

To increase value and worth of IEEE services and programs to young professionals and recent graduates.

## **MISSION:**

Develop programs and foster relationships to provide tangible value to members; Promote the GOLD program to students; Recruit, develop and nurture volunteers.

# GRADUATES OF THE LAST DECADE (GOLD)



## SCOPE:

- GOLD Program focuses on needs of the **recent graduates** and **young professionals**.
- **Recent graduates** are defined as those typically 2-3 years after graduation with their first professional degree in an IEEE related field. This includes graduate student members (GSM).
- **Young professionals** are defined as graduates in the early stages of their career.

# GRADUATES OF THE LAST DECADE (GOLD)



## WHAT DO I GET FROM GOLD:

- GOLDRush Newsletter
- Involvement in local community service programs
- Widen your knowledge of the inner workings of IEEE
- Online seminars
- Professional networking opportunities
- Peer connection
- Local social activities
- Leadership opportunities

# GRADUATES OF THE LAST DECADE (GOLD)



## LONG ISLAND GOLD AFFINITY GROUP

### Mission:

Our mission is to establish a network young engineers who will be the future driving force in the Long Island region through continuous professional and technical development as well as emphasis on community service

### Vision:

To make GOLD LI as a vehicle for promoting the science and engineering profession to young engineers through IEEE

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# GRADUATES OF THE LAST DECADE (GOLD)



## LONG ISLAND GOLD AFFINITY GROUP

- opens the doors to meet engineers to major Long Island companies
- learn from senior LI EXCOM officers
- be heard and implement your ideas
- be recognized for your effort as a volunteer
- get your name out as a professional engineer
- meet engineers with similar interests
- do “good” things for the LI community
- make new friends
- get valuable information about careers in other companies
- represent your company in IEEE LI programs (LISAT, Societies)
- and more!!!

[www.IEEE.LI](http://www.IEEE.LI)



# CONCLUSION



- IEEE is a global organization that promotes the engineering profession and technological advancements
- As young engineers, IEEE provides us all the necessary benefits and tools to help us become better and well-informed engineers
- Here on LI, the IEEE Section wants to reach out more to students to solidify student involvement and volunteerism
- However, this can only be successful if students show interest!
- IEEE also reaches out to young engineers through the GOLD program. We can make history here on Long Island by helping us build our GOLD Affinity Group!
- COME ON-BOARD WITH US!!!

Thank you!  
Questions ?