



Almanack



[IEEE Philadelphia Section Website](#)

Membership in the Following Counties

Pennsylvania: Bucks, Chester, Delaware, Montgomery and Philadelphia.

New Jersey: Burlington, Camden and Gloucester

Entries are Hyperlinked: point+ctrl+click

NOVEMBER 2019						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7 Smart Cities	8	9
10	11 Women in Engineering (Local)	12 ADCOM ITC	13 ITC Complex Adaptive Systems	14 ITC Complex Adaptive Systems	15 Complex Adaptive Systems	16
17	18	19 IEEE Night	20	21 WIE Forum USA East	22 WIE Forum USA East	23 WIE Forum USA East
24	25	26	27	28 Thanksgiving	29	30

Inside the Almanack
 Pages 2 & 3 & 4: IEEE Night
 Page 5: IEEE WIE Forum East
 Page 6: Engineers Day
 Page 6: Del Val Science Fair
 Page 7: Multi-society event
 Page 8: Smart Cities Course

Page 9: Chair's Message
 Page 10 & 11: Complex Adaptive Systems
 Page 11: WIE
 Page 12: Section organization
 Page 12: ITC on Social Media
 Page 13: Planning calendar
 Page 14: Banquet item

IEEE Night

November 19, 2019

**Sheraton University City Hotel
3549 Chestnut Street,
Philadelphia, PA 19104**

Dinner at 6 pm

First speaker at 7 pm

Second Speaker at 8 pm

Note: In the event of bad weather please call the Sheraton after 1:00 PM the day of the meeting and ask the front desk if the meeting has been canceled.

- **Meal Cost: \$25 online registration, \$25 at the door. (students \$15). The meal cost is \$40 but it is subsidized by the IEEE Philadelphia Section.**
- **You can attend the talks only for free (with no dinner), however, we ask that you register.**
- **Parking is paid by the IEEE Philadelphia Section, make sure you have your parking ticket stamped at the meeting.**

Registration: call (484) 270-5136 or email the section office: sec.philadelphia@ieee.org

PROFESSIONAL DEVELOPMENT HOURS (PDH)

PDH Certificates are free for IEEE members. For non-members, the cost is \$9 per certificate.

FIRST SPEAKER

Sponsored by Computer Society Chapter

Glenn Pritchard P.E.

Smart Cities

With the advent of the Internet of Things and ever prevalent communications networks, urban communities are now exploring how they can

best use these technologies and the data they generate to create Smart Cities. This presentation will explore the many facets that are being integrated to deliver smart solutions with will improve day-to-day life in our cities.



Glenn A. Pritchard, PE

Glenn Pritchard is currently the Manager of Advanced Grid Operations and Technology for PECO's Smart Grid/Smart Meter system. PECO's Smart Grid consists of 2.3M electric and gas meters and over 2,000 Distribution Automation devices. Pritchard graduated from Clemson University in 1990 with a B.S. Degree in Electrical Engineering. He is a registered professional engineer in Pennsylvania. He has been with Exelon/PECO in Philadelphia for 27 years where he is responsible for developing new applications that leverage the Smart Grid, AMI Systems and metering data.

Other areas of experience include distribution & transmission engineering, substation automation and communications.. Pritchard specializes in finding new applications of existing and emerging technologies.

Beyond his work at PECO, Pritchard has taught numerous classes and frequently presents

at the key industry venues, including Distributech, EEI and IEEE. He has authored numerous papers on Smart Grids, AMI systems and the use of the data generated by such platforms.

Pritchard received EPRI Technology Transfer Awards in 2017 and 2014, the 2010 IEC Grid Vision and the 2008 Utilimetrics' Utility Best Practices Awards for his work in the Smart Grid and AMI fields.

SECOND SPEAKER

Sponsored by Reliability Society Chapter

Joseph F. Maida, P.E.

Selectivity – Keeping the Lights

The course will describe the equipment and relays that are used to keep electrical systems operable, while disconnecting systems where electrical faults occur. It will address residential, commercial and utility power systems and the importance of designing selectivity in their power distribution systems and point out some pertinent code requirements



Joseph F. Maida
President



Education: BSEE, Drexel University – 1971
MSEE, Drexel University – 1976

PE License: PA, NJ, DE, NY, GA, FL, TX, MA, ID, IA, NC, WV, AR, MD, TN, MO, KS, OH, VA, SC, NM, ALBERTA

LEED Accredited Professional – June 2009 to Present

Appointments: Pennsylvania Uniform Construction Code Review and Advisory Council 2009 to 2011

Employment: Maida Engineering, Inc. 1978 to Present

Joseph Maida provides engineering and design services for large and small projects in a number of disciplines. Since starting Maida Engineering, Inc. in 1978, Joseph has provided engineering and design and project management services for commercial, industrial, governmental design projects and many design/build projects for industrial power and control systems. Joseph has also performed numerous power system studies and arc flash analyses.

Large or small, simple or complex, Joseph approaches every project with the same attention to detail and strives to develop or oversee the development of the most feasible designs that meet building codes, that provide a high degree of safety, and that will function reliably, while meeting the client's budgets and schedules.

Joseph manages a company that provides harmonious working environments and utilizes the technical and managerial talents of its employees and subconsultants, thus enabling them to provide the highest quality of engineering and design to its clientele.

Joseph has dedicated his career to learning and developing his engineering and management talents enabling him to fill various roles on different types of projects. Joseph prepared the functional specifications describing both existing systems, when applicable, and new systems, and the specifications and related

drawings for the removal of existing systems, when applicable, and for the installation of new state of the art systems for the St. Louis Arch Tram Motor and Drive Replacement Project, for NFPA 86 Gas Furnaces and Forehearth Upgrade Projects, for various Theme Park Attractions and for Wind Tunnels. Examples of some the projects he has worked on follow.

The St. Louis Arch Trams Motor and Drive Replacement Project - The Trams, which are very similar to elevators and are currently controlled by a 125 HP Ward Leonard Systems. Because of the difference between the Tram, which operates at different speeds and rotates the passenger capsules the higher power requirement, standard elevator controllers and machines could not be used. Joseph engineered and designed custom controllers using VFDs and custom machines using AC motors for the Trams..

Aerospace Projects have included the replacement of the motors, drives, lubrication systems and controls for two helicopter blade, 4050 HP dynamic balancing towers; the replacement of an existing wind tunnel's AC wound rotor and DC motors with a 18,000 HP synchronous motor and a 22,000 HP, 36 pulse VFD;

Hospital and Power Projects have included the engineering and design for a 6 MW, 13.2 KV Mission Critical Electrical Power Generation and Distribution Systems for the Philadelphia Veterans Medical Center, the installation of 5 MW Standby Power Distribution System and Priority Load Management Control System for a Pharmaceutical R&D campus; a new cement plant's 34.5 KV and 4,160 Volt, 20 MVA power distribution system; a hazardous area analysis for areas containing fossil fuel dust.

Studies have included numerous power system studies including load flow, voltage drop, short circuit, equipment evaluation, TCC Coordination, motor starting, harmonics, and arc flash analyses;

Commercial projects have included the remodeling of numerous commercial kitchens; the power distribution and control of new outdoor and indoor lighting; a new Command Center; the study for upgrading a large data center's standby and interruptible power supplies; and the installations of new services, feeders and branch circuits for pharmaceutical, fiberglass and cement plants and commercial buildings, HVAC/mechanical equipment and renovations to building and processes.

Joseph Maida has overseen and prepared bid and construction documents that have been used by its clients for design/build projects and by Maida Engineering to perform design/build projects utilizing the services of both in-house and outside engineers, fabricators and contractors. Some of these design/build projects have included: a new fiberglass manufacturing plant and warehouse, the engineering, fabrication, installation and PLC programming for a large textile manufacturing line with 56 DC drives and motors; the engineering, fabrication, installation and PLC programming for the electrical and control portions of a new cement terminal; the engineering, fabrication, installation and PLC programming of PLC based, HVAC control systems for a 100,000 square foot Class 1 Clean Room (total project, concept to startup was completed in 5 months).

Joseph Maida has extensive experience in the interpretation and application of building and fire codes. He has performed many electrical hazardous areas classification studies within chemical, pharmaceutical and cement plants and within oil refineries. He has contributed to the writing of a section of NFPA 70, National Electrical Code.

Societies: NSPE member, PSPE – Philadelphia Chapter member, Practicing Engineering Institute, IEEE Member and NFPA member



Register NOW for the 5th Anniversary Event!

Full program is now posted!

<https://attend.ieee.org/wie-forum-usa-east-2019/>

Early Registration is available through 24 October:

<https://attend.ieee.org/wie-forum-usa-east-2019/registration/>

New this year: Boolean Girl STEM Workshop on Saturday
(Spots still available and volunteers needed)

Are you interested in STEM volunteering? Applications are now being accepted. No prior coding experience needed, and training will be provided. Volunteers must be IEEE members.

Do you have a child interested in STEM? Limited spots available so register your child today!
Fee per child is \$20 and includes all materials and refreshments.

<https://attend.ieee.org/wie-forum-usa-east-2019/boolean-girl-coding-workshop/>

Career Fair on Friday, Nov 22. Only a few spaces left for companies to sign up for a table! Job seekers can attend for free.

<https://attend.ieee.org/wie-forum-usa-east-2019/career-fair/>

Please share the below keynote flyer with your friends and colleagues!

Sincerely,

Neeta Basantkumar & Felicia Harlow, General Co-Chairs
2019 IEEE WIE Forum USA East

Charlotte Blair & Maryam Rahmani, Program Co-Chairs
2019 IEEE WIE Forum USA East

CONTACT US

R1R2WIEForum@gmail.com

Event info: <https://attend.ieee.org/wie-forum-usa-east-2019/wp-content/uploads/sites/62/2019/10/Keynote-flyer.jpg>

Engineer Day at the Franklin Institute

Saturday, February 22, 2020

We're gearing up for 2020
Delaware Valley Engineers
Week!

In an effort to increase our activity within the Philadelphia STEM community, we are inviting all affiliates to [fill out this form](#) and join us in hosting "Engineer Day!" at the Franklin Institute! Engineer Day, a student outreach event to take place Saturday, February 22nd from 10 AM - 3PM, is a great opportunity to showcase your organization and the engineering discipline to young students in Philadelphia!

Simply bring an engineering activity or two, your organization gear, and enthusiasm to inspire the next generation of engineers!

Delaware Valley Science Fair

Dear Philadelphia Section

Judging day for the 2020 Delaware Valley Science Fairs (DVSF) will be, Wednesday, April 8th, 2020 at the Greater Philadelphia Expo Center in Oaks, PA.

I hope your schedule will allow you to participate. We realize that Passover begins that evening but, because of procedural changes we made last year we anticipate that judging will be completed in time so as not inconvenience those who observe. Registration is open through our website at www.dvsf.org. All correspondence will be done through e-mail so it is crucial that we have your correct e-mail address. Please be sure to check your "Junk" folder. Please 'spread the word' to all your colleagues about this exciting and worthwhile program. Additional information is posted on our website.

DVSF is a donor option for the United Way Campaign. Please consider us when you make your company pledge. In Philadelphia the number is: **10412**; In Bucks County the number is **10501**. All other areas just use our name: **Delaware Valley Science Fairs, Inc.**

We are always looking for mentors to work with the students. If you are interested in being a mentor; go to our website (see above) and click on "Mentorship Program" for more information.

Henry Disston,
President and Director
Delaware Valley Science Fairs
3201 Arch Street, Suite 310A
Philadelphia, PA 19104
215-895-5840 – voice
215-895-5842 – fax
disstonh@drexel.edu

Engineers Club Affiliation Items

Submitted by Christopher J. Holliday, P.E.

President - Engineers Club of Philadelphia

E: Christopher.holliday@stvinc.com

O: 215 832-3520

C: 215 275-0787

2019 Multi Society Event: December 10, 2019

Please mark your group's event calendars for the evening of December 10, 2019. Our Multi-Society Meeting (MSM) is the one we hope that you will promote to all of your society's members as your groups Holiday season December event. For this year, we are putting together another panel discussion, for this year, the topic will be "Resilience in a Time of Transition". We will present a panel of Subject Matter Experts (SME) who will explore how we are preparing to make our in-place infrastructure and systems capable of withstanding massive on-coming shifts due to climate change, the transition to electrified and autonomous vehicles at a time when urban populations are growing robustly. *We are exploring making breakout rooms available in or near the venue for those affiliate groups who would like to hold board, business or membership meetings just before the start of the MSM.* If having access to a breakout room would enable your group to more easily participate and support the MSM, please reach out to me and we will see what we can do.

Scholarship Applications

ECP has scholarship funding available and we would like to see our affiliates benefit from them. The information and links to the applications can be found here:

https://www.engrclub.org/content.aspx?page_id=22&club_id=386597&module_id=3164

[82.](#)

Does *your* organization have scholarships that you would like to share with the engineering community? If so, let us include the information on them on our Scholarship resource page. Let us help you find and share with deserving scholars.

ADVERTISEMENTS – Contact: psilverberg3@comcast.net.

The IEEE Philadelphia Section encourages placement of technical, professional, promotional and commercial advertisements. The Almanack is published ten times a year and is read by approximately 4,000 members in over 150 key industries.

The following rates are designed for the occasional advertisers. A more comprehensive set of benefits is offered in the Sponsorship Program (next page).

Almanack, Website, Email Blasts

One Month Full Page: \$200.-

Three Months Full Page: \$400.-

We are planning to have a ceremony February 18 to induct interested members into the Order of the Engineer. The planning is just starting. If you are interested in getting the steel ring, contact me for details. Peter Silverberg psilverberg3@comcast.net

**The Engineers Club of Philadelphia &
Pennsylvania Society of Professional Engineers
Philadelphia Chapter
Pizza, Course, Presentation and Networking**

Thursday, November 7, 2019

Registration & Pizza and Wings: 5:30 PM to 6:00 PM

Course #1: 6:00 PM to 7:00 PM

Smart Cities

Presented by

Glenn Pritchard, PE

PECO

With the advent of the Internet of Things and ever prevalent communications networks, urban communities are now exploring how they can best use these technologies and the data they generate to create Smart Cities. This presentation will explore the many facets that are being integrated to deliver smart solutions with will improve day-to-day life in our cities.

Course #2: 7:00 PM to 8:00 PM

Amusement Rides: How much thrill is too much?

Presented by

Robert S. Cargill II, PhD, PE

The F2291 standard of ASTM International sets the standard across most of the world for acceleration limits for amusement rides. These limits form the basis for amusement ride design, including the design of the restraint system. This talk will introduce the biomechanical bases for these limits and describe the history behind the establishment of the duration-dependent exposure limits.

The Pennsylvania Society of Professional Engineers, through PIE, will evaluate and approve these "courses" as meeting the continuing education license requirements for 1.0 Professional Development Hour in New York State. PSPE believes the "courses" will be accepted for credit in PA, NJ and other National Model states where courses do not require pre-approval.

Pennoni Associates

1900 Market St

Suite 300

Philadelphia, PA 19103

Price using Paypal - \$25.00

FOR RESERVATIONS GO TO:

<http://www.pspe-philly.org>



Chair's Message

BY EMILIO SALGUEIRO

Dear fellow IEEE Philadelphia Section members,

This past month has been a very productive one. Chris Dietsch, Kate McDewitt and I have been invited to meet with the Computer Science Club at West Chester University. We had a very warm welcome from the club: Jenna Abbott, Brandon Barker, Gina Dedes, and professor Si Chen. The short summary of the meeting is that IEEE Section was well received and students showed a lot of interest in joining the Section's Student Chapters.

On October 15, we had our traditional IEEE Philadelphia Section Night with a couple of presentations. The first was a *Representation of Numbers in a New Natural Non-Orthogonal Geometry*. The presenter, Dr. John J. Sudano introduced the concept of a natural alternative geometrical space with non-orthogonal basis

rays. The second presentation was about *Overload* in higher education. This talk was sponsored by the Engineering in Medicine and Biology chapter.

On September 24, Kate McDewitt, our Membership Chair held a Senior Member Elevation Night at the Sheraton, University City. The attendance was good, we had many candidates, and the attendance of a handful of Section Senior Members to help sponsor the candidates.

Dr. Li Bai reported that he is now working with Jim Beck, the Awards and Recognition Region 2 Chair to find a solution of hosting a web site that would allow successful submissions of candidates in a very user-friendly manner allowing access to all members to submit nominations.

Peter Silverberg is now getting some needed help from Zizi Elgamel, a new young volunteer to help with the Almanack and our website. Again, thank you, Peter, you are an asset to our section.

I am very interested in hearing from our members. I am available thru email: emsalgueiro@ieee.org, or you can email the IEEE Section office.

Complex Adaptive Systems Conference

November 13 – 15,
2019 | Malvern, PA

*Conference Theme:
Leveraging AI and
Machine Learning for
Societal Challenges*

Complex adaptive systems evolve to address uncertainty and changes in operational environment, social values, and technological advances. Growing human populations and growing demand for limited natural resources necessitate sustainable cities that require efficient and effective energy generation, water management, and transportation infrastructures. Autonomous vehicles within a networked infrastructure, Smart Grid, Smart city, and many other Cyber physical system applications are evolving to address these societal challenges. Healthcare systems are changing as well. Smart medical devices, wearable sensors, connected home monitoring systems are all part of the modern healthcare systems. Artificial Intelligence (AI), machine learning algorithms, pervasive sensing and actuating capabilities, real time control, cloud computing, and data science and analytics are some of the key enablers for these systems.

Complex Adaptive Systems Conference 2019 will bring together researchers from academia, industry and government to discuss recent work in these areas with a special focus on leveraging AI and machine learning for solving societal challenges.

Papers are invited on theories, methodologies, and applications of Complex Adaptive Systems with special emphasis on applications to the following areas:

- Artificial Intelligence and Machine Learning
- Explainable AI
- Trusted AI: Robustness, Security, and Testability of AI systems
- Ethics in AI
- Collective Social Intelligence
- Mobile Cloud Computing
- Data Analytics
- Cyber Security
- Safety, Reliability and Building Resilient Systems
- Modeling and Analysis of Socio-Technical Systems
- Cyber Physical Systems: IoT, Smart Cities, Smart Grids
- Blockchain

Proceedings of the Complex Adaptive Systems Conference 2019 will be published in Procedia Computer Science Elsevier (ISSN:1877-0509)

Conference Tracks & Topics

Track: Artificial Intelligence and Machine Learning

Topics include, but are not limited to applications and theoretical models of supervised learning, unsupervised learning, pattern recognition, computer vision, statistical learning, clustering algorithms, time series prediction, and optimization methods

Track: Explainable AI

Topics include, but are not limited to studies on algorithmic transparency, fairness in machine learning, and bias in AI systems

Track: Trusted AI

Topics include, but are not limited to robustness, security, and testability of AI systems

Track: Ethics in AI

Topics include, but are not limited to use cases and practical applications of ethics in AI systems from a multidisciplinary perspective

Track: Collective Social Intelligence

Topics include, but are not limited to social media analytics, semantic perception, semantic social web, citizen-sensor network, people-content network analysis, real-time social media analysis

Track: Mobile Cloud Computing

Topics include, but are not limited to mobile computing, ubiquitous and pervasive software, cloud computing, security of mobile applications, MCC architecture, context-aware mobile applications

Track: Data Analytics

Topics include, but are not limited to data classification and regression, data warehouse, big

data, datasets and evaluation, data visualization, natural language processing, bioinformatics, high performance computing and scalable computing, knowledge discovery integration and transformation, statistical methods, sentiment and emotion classification

Track: Cyber Security

Topics include, but are not limited to information security, computer network security, application security, web services security, mobile security, software security, sensor network security, security management, security operations, digital trust and reputation

Track: Safety, Reliability and Building Resilient Systems

Topics include, but are not limited to resilience and systemic risk, models of safety and reliability in engineering systems

Track: Modeling and Analysis of Socio-Technical Systems

Topics include, but are not limited to models and methods for designing socio-technical systems including architecture, policy and governance of socio-technical systems

Track: Cyber Physical Systems

Topics include, but are not limited to applications of IoT, Smart Cities, and Smart Grids

Track: Blockchain

Topics include, but are not limited to applications of blockchain, blockchain architecture, smart contracts, blockchain security, open consensus protocols, and scalable consensus protocols

For general conference information, contact:

Lee Dougherty

Conference Planning Services at Penn State Great Valley

30 E. Swedesford Rd.

Malvern PA, 19355

Email: complexsystems@psu.edu

Giant Jenga Tournament

ACE Mentor announced the 2020 Giant Jenga Tournament will be held February 20 at the Simone Foundation Automotive Museum. More data in future Almancks. Team entries welcome.

WIE MEETING

From Maria Tabbut

Our next meeting will be held on November 11th from 6:30-7:30 PM. We're shaking up our meeting a bit this month with a presentation on a hidden figure in computer science, Grace Hopper. In April 2020, IEEE Philadelphia Section will be honoring her for her outstanding contributions with a a plaque and a Milestone Dedication. We'll be discussing the dedication and more events we have coming up after the presentation. Please join us in person at Penn State Brandywine, Tomezsko Building, Room 208 or conference in! Details to join our meeting via Zoom are below. (Milestone is scheduled for April 6, 2020 at 447 N. Broad Street, Philadelphia. Put this in your calendar.)

Zoom Meeting Details:

Topic: IEEE WIE Branch Meeting

Time: Nov 11, 2019 06:30 PM Eastern Time (US and Canada)

Join from PC, Mac, Linux, iOS or

Android: <https://psu.zoom.us/j/3824535049>

Or iPhone one-tap (US Toll):

+16468769923,3824535049# or

+16699006833,3824535049#

Or Telephone:

Dial:

1 646 876 9923 (US Toll)

1 669 900 6833 (US Toll)

Meeting ID: 382 453 5049

International numbers available: <https://psu.zoom.us/j/3824535049>

PHILADELPHIA SECTION

NOTES

IEEE PHILADELPHIA SECTION OFFICERS

Chair: Emilio M. Salgueiro: emiliosalgueiro@ieee.org

Vice Chair: Mark Soffa: msoffa@kns.com

Treasurer: Robert Johnston: rlj1620@gmail.com

Secretary: J.J. Gingerich, Jr: jjgingerich@gmail.com

Past Chair: Peter Silverberg: psilverberg3@comcast.net

ADMINISTRATIVE COMMITTEE (ADCOM)

ADCOM meets the second Tuesday of the month at the Sheraton University City, 3549 Chestnut St, Philadelphia, PA 19104. Members are welcome to attend. If you want to attend, reserve a seat by calling the IEEE Section Office by the Friday before the meeting.

DIECTORIES

ADCOM MEMBERS

SECTION CHAPTERS CHAPTER CHAIRS RESPONSIBILITIES

ALMANACK STAFF

Publisher: Emilio M. Salgueiro: emiliosalgueiro@ieee.org

Editor: Peter Silverberg: psilverberg3@comcast.net

News and notices contact: psilverberg3@comcast.net

Asistant Editor: Zizi Eigamal: zizi.eigamal03@gmail.com

IEEE Philadelphia Section Main Office:

Bala Pointe Centre, c/o Greater Philadelphia Association Management Group

111 Presidential Blvd., Suite 231, Bala Cynwyd, PA 1004, Phone: 484.270.5136

SEC.PHILADELPHIA@IEEE.ORG

[Follow ITC on Social Media](#)

This year ITC is on all the social media platforms.

Take advantage of the ITC social media platforms to share relevant electronics test information. There are links to ITC social media at the top of the webpage.

Our Facebook page is at <https://www.facebook.com/itctestweek> Like us on Facebook, and post your ITC plans.

We're on Twitter at <https://twitter.com/ITCTestWeek/>, and we use the hashtag #itctestweek

Our Facebook page is at <https://www.facebook.com/itctestweek> Like us on Facebook, and post your ITC plans.

We're on Twitter at <https://twitter.com/ITCTestWeek/>, and we use the hashtag #itctestweek

Watch for the ITC mobile app - coming soon. This will help you navigate your way around ITC and has lots of new features.

[Register](#) for ITC2019 today.to be part of the excitement.

As always, visit our [website](#) to see the latest on our exciting 50th ITC program and events.

See you in Washington Nov. 12 - 14.

PHILADELPHIA SECTION PLANNING CALENDAR
Curent month November 2019

DATE	ACTIVITY
November 7	Smart Cities Course
November 11	WIE Affinity Group
November 11-14	International Test Conference (Washington DC)
November 12	Adcom 5 pm
November 12	Student recognition 6 pm
November 13-15	Complex Adaptive Systems Conference
November 19	IEEE Section Night
November 21-23	WIE Forum USA East
December 7	Signal Processing In Medicine and Biology
December 10	Adcom
January 8	Adcom
January 15	IEEE Section Night
April 6	Grace Hopper Milestone

PHILADELPHIA SECTION

SPONSORSHIP PROGRAM AWARDS BANQUET

Contact: sec.philadelphia@ieee.org

	Platinum	Gold	Silver	Bronze
Cost per Year	\$3,500	\$2,500	\$2,000	\$1,000
Awards Banquet¹	Full Table-10 tickets Full page Awards Brochure 6-ft Exhibit Table	6 tickets Half page Awards Brochure 6-ft Exhibit Table	4 tickets Quarter page Awards Brochure 6-ft Exhibit Table	2 tickets Quarter page Awards Brochure
IEEE Almanac	12 Months Full Page	9 Months Full Page	6 Months Full Page	3 Months Full Page
IEEE Website²	12 Months Full Page	9 Months Full Page	6 Months Full Page	3 Months Full Page
IEEE Email Blast²	12 Months 4 Times / month Full Page	9 Months 4 Times / month Full Page	6 Months 2 Times / month Full Page	3 Months 1 Time / month Full Page

¹ **The Awards Banquet is held annually at the prestigious Union League of Philadelphia.** The Awards Banquet is a major social occasion, recognizing those honored by the Institute & the Section for their contributions & those honored by organizations with mutual interests of IEEE. Plan ahead for April 4, 2020.

² **Advertisement(s) are prepared by the Sponsor and can contain links to the Sponsor's website and/or specific events.** Advertisement(s) can be different one for each month of benefit or the same for one or more months