



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)

January

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
	New Year's Day			* UTC-RAS		
7	8	9	10	11	12	13
		* ADCOM				
14	15	16	17	18	19	20
		* IEEE Section Night				* Future City Competition
21	22	23	24	25	26	27
28	29	30	31			



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(Entries are Hyperlinked – point+ctrl+click)

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ALMANACK

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Publisher: Peter.silverberg@ieee.org

Editor: Michael.mayor.pe@ieee.org

Section Office: sec.philadelphia@ieee.org

IEEE Section Night

Meetings are conducted on the 3rd Tuesday of the Month, eight times per year, January through May and September through November.

ADMINISTRATIVE COMMITTEE (ADCOM)

Meetings are conducted on the 2nd Tuesday of the Month: January through June and September through December. Members are welcome to attend the meeting only. Reserve a seat by calling the office the Friday before the meeting. **Phone:** 484-270-5136.

IEEE SECTION NIGHT

Philadelphia Section Meeting
 Tuesday, January 16, 2018

Sponsored by the Computer (C), Magnetics (MAG) and Reliability (R) Society Chapters.

Note: In the event of bad weather please call the Sheraton after 1:00 PM the day of the meeting:

215-387-8000

Ask the front desk if the meeting has been canceled.

When:

Tuesday, January 16, 2018
 Dinner at 6:00 PM,
 1st Speaker at 7:00 PM.
 2nd Speaker at 8:00 PM.

Where:

Sheraton University City,
 3549 Chestnut St,
 Philadelphia, PA 19104
 (215) 387-8000

- Meal Cost: \$25 (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 Link

Or 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. You can pay during registration or by check at the meeting.



First Talk

The importance of Computer Performance Analysis and Capacity Planning for large computing environments.

Emilio Salgueiro
Salgueiro Consulting

Abstract: Have you ever been waiting in line to complete a transaction and the person helping you complains that the system is slow? This happens all the time in banks, over the phone transactions or even trying to get your balance from your credit card?

Computer performance analysis is a continuous activity and a basis for capacity planning of future and current computer needs. In this talk I would like to focus in Benchmark development as a key tool in the process of benchmark for system selection.

We will review characteristics required for successful benchmarks in terms of scaling, controllability, repeat-ability, allow comparison across vendors. Use as input for capacity planning and price/performance metrics.

Biography: Mr. Salgueiro is an Experienced Computer Performance Architect with years of expertise in private industry as well as Academia. Currently working as an independent consultant in the area of Performance and Capacity Consulting Services at Salgueiro Consulting



He has over 25 years of experience working as a Consulting Engineer for the ESC Solutions Performance Group for Unisys Corporation

As a Technical Team Lead Emilio has worked with peers in the System Performance Analysis and Capacity Planning. Managed the department of System Analysis Modeling and Measurement Development Engineering team, and on many occasions, acting Director of Performance Engineering. The group focused in performance characterization, discrete and analog modeling for CMOS and Intel based Libra, ClearPath Forward MCP systems.



Second Talk

Overview of Unmanned Aerial Systems (UAS & Drones)

Peter Marchese

Senior Technology Evangelist

MICRODESK, INC.

Philadelphia, Pennsylvania

www.microdesk.com

LEED Green Associate

Revit Implementation Certified Expert

Certified Professional Revit User

Certified Sketchup Trainer

Certified e-SPECS Trainer

Abstract: Over the last several years, UAV's and Drones have been growing in popularity, and some would say notoriety. Over that time, it's also been growing into a burgeoning platform and industry, with many ways to enhance and benefit our current workflows. Its only recently become easy and legal for those interested in utilizing them for commercial use in the US though. This session will provide an overview of Unmanned Aerial Systems (UAS & drones) and how they can be used for projects, with design, inspection and safety examples.

Knowledge Checks:

- Understand how UAV's can be utilized for site and infrastructure evaluations
- Understand the benefits and reasons for utilizing one type of UAV vs another
- Learn how to use UAV's to look for changes over time in site and element conditions
- Realize how photogrammetry can help with site volume and area calculations
- Identify opportunities associated with UAVs in the design and construction industry

Learn what is necessary to fly commercially according to the FAA's new regulations

Biography: Peter is a Senior Technology Evangelist at Microdesk, special-



izing in assisting organizations with implementing BIM processes and understanding and implementing new and upcoming technologies to enhance coordina-

tion, and differentiate skills and offerings from competitors. This has included working with international firms in AECO providing on-site assistance, integrating BIM into their design processes, custom training and content, and leading the process of creating standards and workflows, as well as utilizing VR, cloud/ mobile tools, and UAV's to stay at the forefront of the industry. Prior to joining Microdesk, Peter worked at design firms working on residential, institutional, liturgical and commercial projects. He has managed projects throughout all phases including CD's, field surveys, code and product research, specs, and presenting to approval boards.



MESSAGE FROM THE CHAIR

Peter Silverberg, IEEE-LSM, P.E.



As I head into year two of being chair, I thank those who have volunteered in the past and are continuing. But, we have some leadership positions that need filling. If you have been in the chapters and affinity groups and want to move into the central running of the section, I have a deal for you. You don't have to drop what you are doing; doubling up is permissible. Get back to me at 856.461.6615 or psilverberg3@comcast.net.

Here are the opportunities:

MEMBERSHIP CHAIR. The section is shrinking. We need to reverse this trend. The job has four units: retention, reinstatement, recruitment, and promotion to Senior Member. Our headquarters offers a lot of information and help. We need a person to run with this.

YOUNG PROFESSIONALS CHAIR. The younger members have an affinity group. While IEEE is not specific on ages, we could use a leader who is under 35. The chair has to set up two YP events a year. They are useful for networking and can be non-technical.

Chair Electron Devices/ Electronic Packaging (ED/EP) joint chapter. This is a small chapter that needs revitalization.

Award Nominations

The Awards Banquet is coming (save April 14). We have awards that are the highlight of the evening. Our committee needs nominees. There are four awards (possible multiple winners).

1. Benjamin Franklin Key Award
2. Philadelphia Section Corporate Technology Innovation Award
3. Philadelphia Section Engineer of the Year Award
4. Young Electrical Engineer of the Year Award

You can get to the forms and details by accessing the December Almanack, the web site, or questions to the office. Recognition among your peers is a good thing.

Other stuff

I compiled an annual calendar. Parts of it will be printed elsewhere in the Almanack. Three months are accurate and then it falls off. Even so, it helps us plan our IEEE life.

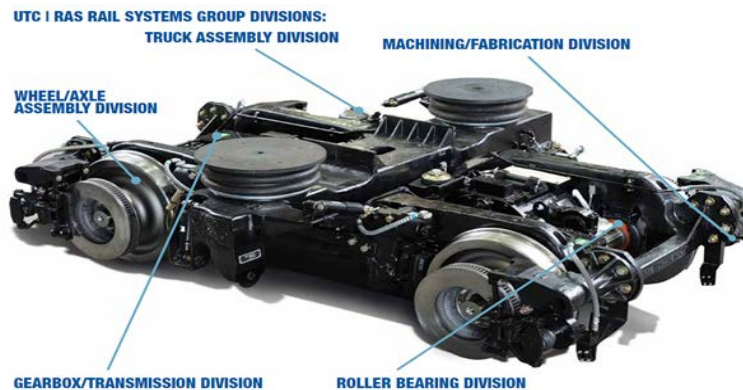
The section has a *Collabratec* address. I started it for ADCOM, but it is open for everyone. We have to get used to it as a discussion medium. I would appreciate your input and feedback on any of these matters.



Philadelphia Chapter PSPE Engineers Club of Philadelphia Philadelphia Section IEEE

UTC – RAS

Manufacturing Facility & Model Railroad Tour



UTC | RAS is a certified wheel, axle, bearing, truck, gearbox and transmission remanufacturing facility specializing in passenger, transit, locomotive, freight, & light rail rolling stock. With expertise in railroad engineering technology, ITC|RAC's provides Precision Machining and Metal Fabrication, Wheel and Axle Assembly, New Truck Assembly, Roller Bearing Reconditioning, Truck & Gearbox Remanufacturing, Train-line Jumper/Wire Harness Assembly & other specialty component manufacturing.

**501 Highland Ave
Morton, PA 19070.**

The tour will meet the requirements for 2.0 Professional Development Hours for continuing education "activity" requirements in NY, PA, NJ and National Model States.

Thursday, January 4, 2017

Registration and Pizza – 5:30 PM – 6:00 PM

Tour – 6:00 PM – 8:00 PM

Price - \$25.00

TOUR IS LIMITED TO 25 PEOPLE

FOR RESERVATIONS AND PAYMENT BY PAY PAL GO TO:

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



Engineers' Club of Philadelphia

Founded in 1877

Engineers Week

Engineers Week in the Delaware Valley will be celebrated February 16-24, 2018.

This will be our 66th year(!) of celebration of Engineers Week locally.

Planning is underway for the three events that Delaware Valley Engineers Week will conduct:

Kickoff Luncheon – Friday, February 16, 12:00 Noon, Sofitel, 120 S. 17th Street, Center City Philadelphia.

Young Engineers Social – Tuesday, February 20, 6:00 PM, U-Bahn, 1320 Chestnut Street, Center City Philadelphia.

Awards Reception / Student Showcase – Thursday, February 22, 5:00 PM IATSE Ballroom, 2401 S. Swanson Street, Philadelphia

More information on costs, meal choices and reservations will be provided as this is finalized.

Our 2018 Sponsorship Brochure is now available on our website (www.dvewc.org). We are hopeful that you can consider a donation to E Week. Our efforts are supported by volunteers and donations go towards our awards, prizes and scholarships.

Congratulations to **Deborah Grubbe**, our **2018 Delaware Valley Engineer of the Year!** We will formally welcome Deb at our Kickoff Luncheon. Thanks to all who participated in the Engineer of the Year election process.



Nominations for the various Engineers Week awards are now closed. We thank those who have submitted nominations and applications for our various awards, scholarships and prizes and appreciate your help to make E Week the success it always has been.

[Follow us on Twitter](#) | [Find us on Facebook](#)

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Contact email: contact@engrclub.org

Contact Phone Number : 267-521-2327

Mailing Address:

P.O. Box 38561

Philadelphia, PA 19104



Future City is a project-based learning program where students in 6th, 7th and 8th grades imagine, research, design and build cities of the future.

**Saturday, February 20, 2018
Archbishop Carroll High School,
211 Matsonford Road, Radnor PA. 19087**

Information and Registration



ACE MENTOR PROGRAM

ARCHITECTURE • CONSTRUCTION • ENGINEERING

EASTERN PA



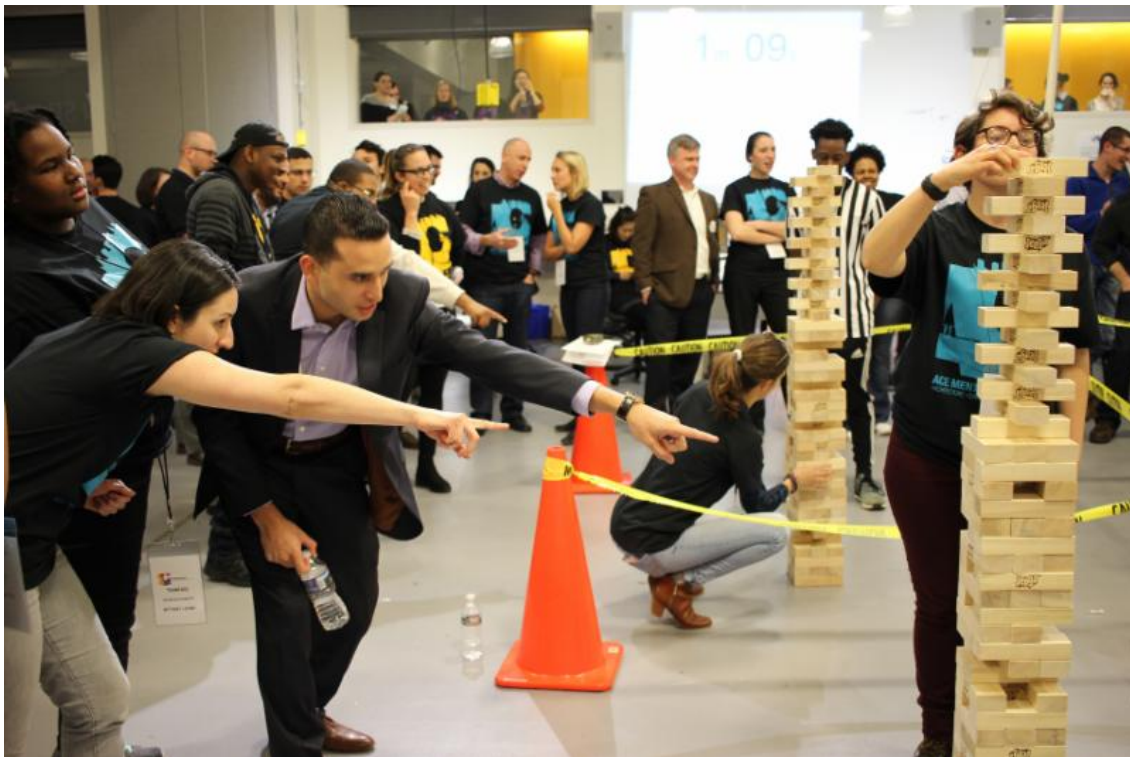


THURSDAY FEBRUARY 15, 2018

6:00PM REGISTRATION + NETWORKING

421 NORTH 7TH STREET | 5TH FLOOR
PHILADELPHIA, PA 19123

Tower Above the Competition!





Test your steady hand and sense of balance by playing Giant Jenga with your friends in the design and construction industry! Just like the tabletop game only super-sized. The tallest tower winner gets bragging rights.

The winner of the tournament will also have the opportunity to name an ACE Scholarship - which will be presented at the 17th Annual ACE Scholarship Breakfast on May 23, 2018.

Proceeds from our Giant Jenga Tournament will go to scholarships for our current High School students - AND - ACE Alumni currently enrolled in school and focusing on an A-C-E related career path.

Help us **ENGAGE, EXCITE and ENLIGHTEN** students about the design + construction industry!



Teams fill quickly - Register Today!



The ACE MENTOR PROGRAM of EASTERN PA is an affiliate of a national non-profit organization. The mission of ACE (Architecture, Construction, Engineering) is to engage, excite, and enlighten high school students to pursue careers in the integrated construction industry through mentoring and to support their continued advancement in the industry through scholarships and grants. Students are recruited from both public and private high schools throughout Philadelphia and the suburbs, with special efforts made to reach the traditionally underrepresented populations of women and minorities.

FOR MORE INFORMATION, please contact our Affiliate Director Tiffany Millner at easternpa@acementor.org!

VISIT OUR BLOG!



Call for Industry Seminar Proposals

The Philadelphia Chapter of IEEE CSS/CASS/SMCS is interested in organizing a series of seminars by industry professionals. The objective of these talks is to provide practical knowledge for students and young professionals to solve real world problems. These talks would discuss a technical problem faced by the presenter's industry and include guidelines, methodologies, best practices and successful cases demonstrating how knowledge gained from coursework can be effectively translated into working solutions.

The general areas of interest include but are not limited to:

- Control Systems
- Circuits
- Robotics
- Process Engineering

To this end we are inviting presentations covering the following details for the problem under consideration:

- The problem and its importance
- The techniques considered to address the problem
- Criteria used to select the method to resolve the issue
- Description of the final method used to resolve the problem
- Demonstrative supporting results

Please send your extended abstract touching upon the above headings along with a short biography of the presenter(s) to:

Ziauddin.ahmad.us@ieee.org

Upon acceptance of the extended abstract your presentation will be scheduled on a mutually agree date. The time of the talk would be 7:00 pm to 8:00 pm. The likely location of the presentations would be at Villanova University in Villanova or DeVry University in Fort Washington. Also if you have any questions please email those to the above address.

*Thanks,
Sincerely,
Ziauddin Ahmad
Chair IEEE Philadelphia Chapter of
CSS/CAS/SMCS*



PHILADELPHIA SECTION PLANNING CALENDAR

Current Month: **January**

Date	Activity
January	
January 09	ADCOM
January 15	WIE TechGirlz at Friends School in Haverford
January 20	Future City Judging (Radnor)
January 16	IEEE Night
February	
February 13	ADCOM
February 15	Send officer certification to IEEE
February 15	JENGA Tournament
February 20	IEEE Night (Engineers Week)
Feb x	ECP activity
Feb 16	Engineers Week Luncheon
February 28	Treasurer's Report to IEEE
March	
March 07	Montgomery County Science Fair
March 13	ADCOM
March 17	Trenton Computer Festival
March 20	IEEE Night
March 10?	Region 2 meeting (Lehigh Valley)
April	
April 4	Science Fair Judging (Oaks)
April 6-8	SAC Conference at University of Pittsburgh
April 10	ADCOM
April 14	MATE Regional ROV competition
April 14	Awards Banquet
April 17	IEEE Night
April 22-25	VLSI Test Symposium (San Francisco)
May	
May 1	New members get 8 months for the price of 6
May 8	ADCOM
May 15	IEEE Night
May 15	Apply for Outstanding Section
May 15	Applications due for scholarships
May 31	Nominating Committee presents slate for 2019



PHILADELPHIA SECTION PLANNING CALENDAR

Current Month: **January**

Date	Activity
June	
June 10-15	International Microwave Symposium
June 12	ADCOM
July	
July 15	Application for project funds from IEEE Foundation
June 30	Send sponsorship donation to future City
June 30	Application due for PES Scholarships
September	
September 11	ADCOM
September 18	IEEE Night (Conflict with Yom Kippur)
September 22	Maker Faire (NYC)
September 18?	Sarnoff Symposium
October	
Oct 3?	IEEE Day
October 9	ADCOM
October 10	Volunteer sign-up mentors for Future City
October 15	Voting closes for section officers
October 15	New members get 15 months by joining in October
October 16	IEEE Night
October 26-27	Electric Expo
October 26 to November 4	ITC Meeting (Phoenix)
October 30	Voting closes for Engineer of the year
November	
November 13	ADCOM
November 20	IEEE Night
December	
December 01	Application due for Region 2 Awards nominations
December 11	ADCOM
December 31	Last Day to pay 2019 dues



PHILADELPHIA SECTION

NOTES

IEEE PHILADELPHIA SECTION OFFICERS

Chair: Peter M. Silverberg, P.E.: psilverberg3@comcast.net

Vice Chair: Mark Soffa: msoffa@kns.com

Treasurer: Robert Johnston: rlj1620@gmail.com

Secretary: Chris Vaile: cvaile@burns-group.com

Past Chair: Philip Gonski, P.E.: philip.m.gonski@ieee.org

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.

DIRECTORIES

Link to ADCOM Members

Link to SECTION Chapters

ALMANACK STAFF

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sec.philadelphia@ieee.org

ADVERTISEMENTS – Contact: michael.mayor.pe@ieee.org.

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 - One Month Full Page: \$200.-

Website – One Month Full Page: \$200.-

Email Blasts – One Time Full Page: \$200.-



PHILADELPHIA SECTION SPONSORSHIP PROGRAM

Contact: sec.philadelphia@ieee.org

	Platinum	Gold	Silver	Bronze
Cost per Year	\$3,500	\$2,500	\$2,000	\$1,000
Awards Banquet¹	<ul style="list-style-type: none"> • Full Table-10 tickets • Full page Awards Brochure • 6-ft Exhibit Table 	<ul style="list-style-type: none"> • 6 tickets • Half page Awards Brochure • 6-ft Exhibit Table 	<ul style="list-style-type: none"> • 4 tickets • Quarter page Awards Brochure • 6-ft Exhibit Table 	<ul style="list-style-type: none"> • 2 tickets • Quarter page Awards Brochure
IEEE Almanack²	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

NOTES

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.

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.