

PHILADELPHIA SECTION of the IEEE

Membership in these counties: Bucks, Chester, Delaware, Montgomery, Philadelphia, (PA)
Burlington, Camden, Gloucester (NJ)

Almanack



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October 2014

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Note: In the event of bad weather please call the Sheraton after 1pm the day of the meeting at 215-387-8000. Ask the front desk if the meeting has been canceled.

October 2104

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2 HVAC & Law	3 Yom Kippur	4
5	6 WIE Forum	7 CONET IEEE Day	8	9	10	11
12	13 Columbus Day	14 Adcom EMC Live	15 EMC Live	16 EMC Live	17	18 IEEEXtreme
19	20	21 IEEE Night	22	23	24	25
26	27	28	29	30 Lighting Design Workshop and Career Fair	31 Halloween	

IEEE NIGHT

Philadelphia Section Meeting

Joint with: Computer Society (C),-Aerospace and Electronic Systems (AES)

Date: Tuesday, October 21, 2014

Time: Dinner is at 6 pm. Program starts at 7 pm, and 8 pm.

Location: Sheraton University City, 36th and Chestnut, Philadelphia

Cost of dinner is \$25.00 (students \$15.00); meeting only is free (Real cost of dinner is higher, which is mostly subsidized by section)

Reservations are needed, call 484.270.5136 or email the section office.

sec.philadelphia@ieee.org or use vtools in the web site

Indoor parking is at location and paid by section. Bring ticket to be stamped.

Note: In the event of bad weather please call the Sheraton after 1pm the day of the meeting at (215) 387-8000. Ask the front desk if the meeting has been canceled.

Speaker: Beth Cohen

Topic: Cloud Computing – Delivering applications better, faster, cheaper

Are you still using the same old software development tools for your application development? Do they take full advantage of cloud architectures? Cloud platforms are a new way to meet the demands for automated elasticity, sophisticated rules engines, orchestration and support for a different SDLC model. Welcome to the brave new world of Cloud Computing, where new tools make software development that much faster and better (if not easier).

Biography: Beth Cohen

Cloud Technology Product Manager, Verizon

I have a Bachelors of Fine Arts and a Bachelors of Architecture from Rhode Island School of Design, in addition to a Masters of Arts from Boston University. I completed the required coursework for the Graduate Certificate in Applied Mathematics from Harvard University Extension (that is computer science to the rest of us). I have an MBA from Bentley College.

I work for Verizon creating new cloud products. Previously I worked for a start-up company named Cloud Technology Partners, a company that specializes in cloud computing consulting. I am also President of Luth Computer Specialists, Inc., a practice specializing in IT infrastructure consulting. In addition to working with clients, I publish articles in on-line technical magazines. I also write white papers and other technical publications on a variety of computer related subjects.

Previously I had a couple brief stays at startups that did not actually have any money. Prior to founding Luth, I was Director of Engineering IT for BBN Corporation, the company that invented the Internet (literally). I lived the development of the Internet at “hour zero” working on some of the hottest networking and web technology protocols in their infancy. I was creating large scale IT infrastructure to support 7x24 data centers on a national scale, as well as scalable processes to deliver systems in hyper-growth conditions. It has certainly been an exciting ride!



Speaker: Matthew C. Stamm, Ph.D.

Digital Multimedia Forensics and Anti-Forensics

Digital multimedia signals, such as images and videos, play a critical role in many important settings. They are frequently used by news agencies for reporting purposes, as evidence during criminal investigations, and as intelligence in many military and defense scenarios. This proves problematic since an information attacker can easily manipulate digital content such as images or video to create perceptually realistic forgeries.

In this talk, I will discuss several *information forensic* techniques that I have developed to determine if an image or video has been manipulated. Instead of relying on extrinsic security measures such as cryptography, these techniques identify manipulation by exploiting the intrinsic fingerprints left in digital media by editing operations. Additionally, I will discuss anti-forensic countermeasures that an intelligent forger can use to disguise their forgery. I will show how game theory can be used to examine the dynamic interplay between an investigator and an information attacker, and how this can be used to determine the optimal forensic response to an adversarial forger.

Matthew C. Stamm is an Assistant Professor in the Department of Electrical and Computer Engineering at Drexel University. He heads the Multimedia and Information Security Laboratory (MISL) where he conducts research on signal processing and information security with a focus on digital multimedia forensics and anti-forensics. Much of his research involves developing techniques to detect information forgeries, such as falsified images and videos, along with understanding what anti-forensic countermeasures an information attacker can use to disguise their forgery.

Dr. Stamm earned his B.S., M.S., and Ph.D. degrees in Electrical Engineering from the University of Maryland, College Park in 2004, 2011, and 2012, respectively. For his dissertation research, he was awarded the Dean's Doctoral Research Award in 2012 from the University of Maryland. Additionally, Dr. Stamm was a radar systems engineer at the Johns Hopkins University Applied Physics Laboratory from 2004 until 2006.



EMC LIVE 2014

October 14 - 16, 2014

EMC LIVE is a brand new, online three-day event hosted by Interference Technology. Featuring practical information and topics, this event will include roundtables, webinars and videos on everything EMC-related, and there's no cost to attend.

Who Should Attend? All electronic, mechanical, and design engineers who are looking to improve their practical knowledge in the field of electromagnetic interference and compatibility. - See more at: <http://emclive2014.com/#sthash.fvi4v3wp.dpuf>

Why Attend? Expand your EMC knowledge from the comfort of your office chair. No layovers, no canceled flights, and no removal of shoes – and it is free to attend!



Chair's Message

By Philip M. Gonski, P.E.

I have just returned from the IEEE Section's Congress – a spectacular event held every three years that showcases recent IEEE developments and provides a forum to discuss ideas for the organization's future. This year, the conference was held in Amsterdam and brought together well over 1,200 IEEE members and volunteers!

The insight gained from this conference is hugely beneficial to our group. The other delegates and myself participated in group meetings where we discussed proven ways to engage, recruit, and retain members. We shared tips to help improve organizational efficiency. We attended panel discussions where we learned about new IEEE member benefits. Most importantly, this conference served as a forum to allow us to present your concerns and suggestions to IEEE leadership.

Perhaps the best take-away from this event were the connections we made with IEEE volunteers from around the world – sharing our bond of electrical engineering and our passion for making a difference in our local communities was truly a priceless experience and I, personally, learned a great deal about what it takes to represent those of us in industry and what

we have to offer the engineering community at large.

Specifically, I want to commend our section of doing an excellent job of leading by example.

We have awarded \$5,000 scholarships to three outstanding members of our student branch: Christen Corrado, Jeffrey Eker, and Savannah Lee. I applaud these students for their academic excellence and community outreach initiatives. Our Section Scholarship Fund has continued to make a difference in the local communities for over a decade and we hope to expand this program.

We have also pledged \$15,000 to a local grass-roots campaign to fund school projects in engineering. Not only will this impact the educational aspirations of students, but it will also provide many additional volunteer opportunities for members. IEEE Philadelphia is also pleased to pledge \$3,000 to the MaST Community Charter School, which will be using the funds to complete a "Maker Space" for students.

IEEE volunteers are looking to introduce our highly popular "Parent & Child Arduino Day" to local high schools and middle schools as well as places of worship.

I'm also particularly pleased to be hosting the first "IEEE Philadelphia – Career Networking Fair" on October 30. During the first half of the event, held at Penn State's Malvern campus, participants will obtain four hours of continuing education credit. The second half will be set-up for a professional networking event with hiring managers and recruiters.

These opportunities to get involved and make a real difference are all in addition to the strong technical offerings we have provided this year, with more Section and Chapter activities occurring now than in recent memory. If there was ever a time to get more involved, it is now, so definitely take advantage of this!

I am exceedingly proud of the work our Section does both on a technical and charitable level. Thank you all for your

involvement and contribution. I look forward to kicking off the fall season!

Section notes

IEEE PHILA. SECTION OFFICERS

Chair: Philip Gonski, P.E., pgnski@gmail.com

Vice Chair: Adam Fonteccio, Ph.D., sec.philadelphia@ieee.org

Treasurer: Richard Primerano, Ph.D., sec.philadelphia@ieee.org

Secretary: Leonardo Urbano, Ph.D, sec.philadelphia@ieee.org

Past Chair: Mark Soffa, msoffa@kns.com

Adcom meets second Tuesday of the month (Oct. 14) at the Sheraton University City. Members are welcome to attend. Reserve a seat by calling the office by the Friday before.

Almanack Staff

Publisher: Philip Gonski, P.E.

Editor: Peter Silverberg

Asst. Editor: Janet English-Cartwright, Ph.D.

News and notices contact psilverberg3@comcast.net or 856.461.6615 or fax 509.461.6617

Deadline for the November issue is October 20, 2014

New & improved web site: www.ieeephiladelphia.org

ADVERTISE IN THE ALMANACK:

The Philadelphia Section of the IEEE encourages placement of technical, professional, promotional and commercial advertisements in the Almanack. The Almanack is published ten times a year and is read by more than 4,000 members with an average annual salary of over \$70,000 in over 150 key industries. For more information, contact Peter Silverberg at 856.461.6615 or psilverberg3@comcast.net

Rates:

Full Page: 7.5x10: \$100

3/4 Page: 7.5x7.5: \$75

1/2 Page: 5 x 5: \$50

1/4 Page: 2.5 x 5: \$25

1/8 Page: 2.5 x 2.5: \$12.50

email blast: \$50

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sec.philadelphia@ieee.org

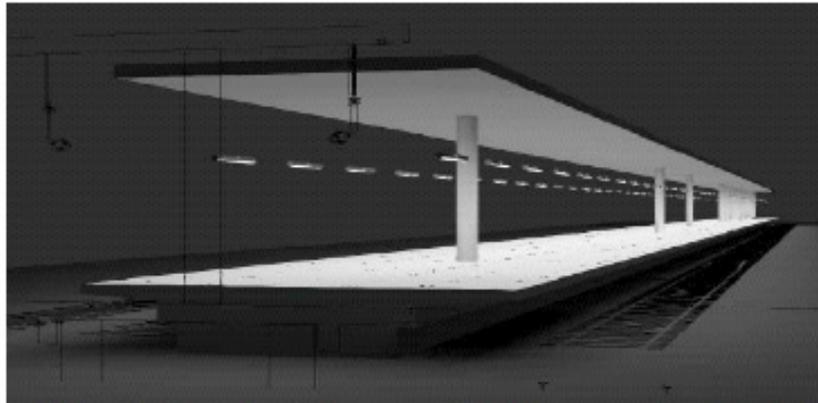


Philadelphia Section



Lighting Design Workshop

Earn Four(4) NJ/NY Certified PDH!



This seminar will be valid for four(4) hours of NJ/NY, as well as PA, PDH credits. Aspects of the seminar will focus on design of lighting levels in facilities, LEED certification, and introduce software modeling practices to the engineer.

Both experienced engineers and novices will find the course useful and practical to their everyday activities

Fee includes light snacks and beverages

Date & Time:	October 30, 2014 8:00AM—12:30PM	<p>Questions?</p> <p>Contact Philip Gonski, P.E. at Philip.M.Gonski@ieee.org</p>
Where:	The Conference Center at Penn State Great Valley 30 E. Swedesford Road Malvern, Pennsylvania 19355	
Agenda:	8:00AM- 8:15AM - Check-In/Coffee 8:15AM - Opening Remarks 8:30AM-9:30AM—Designing for LEED Efficiency 9:30AM-10:30AM— NFPA 101 Egress Lighting 10:30AM-11:30AM— Calculating Lighting Levels using VISUAL 11:30AM— 12:30PM—Lighting Design for a 100yr Old Tunnel Installation	
Registration:	\$25 for IEEE Members \$35 for non-IEEE Members	
	https://meetings.vtools.ieee.org/m/28129	



Philadelphia Section



Don't Miss the Career Fair Sponsored by IEEE Philadelphia & Penn State on October 30, 2014!



IEEE Philadelphia is excited to team up with Penn State and several of the areas leading employers and recruiters, to offer networking and job opportunities to our members and the region.

The event will feature a relaxed social atmosphere with informational booths to learn about job opportunities in the area.

IEEE Philadelphia board members will also be present to offer resume reviews, as well as discuss the many IEEE tools available for employment opportunities

Light Snacks and Refreshments will be provided. **No Admission Charge.**

Date & Time: October 30, 2014
12:30PM - 4:30PM

Where: The Conference Center at Penn State Great Valley
30 E. Swedesford Road
Malvern, Pennsylvania 19355

Agenda: 12:30PM - 1:30PM - Lunch & Networking Begins
1:30PM - 4:30PM - Recruiter Networking Social

Registration: <https://meetings.vtools.ieee.org/m/28131>

Questions?

Contact Philip Gonski, P.E. at
Philip.M.Gonski@ieee.org

Information for Sponsors

The Philadelphia Section (*or Branch as it was then called*) of the American Institute of Electrical Engineers, or AIEE for short, was organized in 1903. On January 1, 1963 the organizations merged under, the then new name of, The Institute of Electrical and Electronics Engineers, Inc. (IEEE).

Today the IEEE Philadelphia Section serves **more than 4,300** electrical engineers in the Delaware Valley including Bucks, Chester, Delaware, Montgomery, and Philadelphia counties in Pennsylvania and Burlington, Camden, and Gloucester counties in New Jersey.

Penn State Great Valley will host our upcoming October 2014 Conference and Recruiting event. This event will help pair local job opportunities, with our highly qualified members. We hope you can join us and be a part of this exciting inaugural event

Philip M Gonski, P.E
IEEE Philadelphia Section Chair
www.ieeephiladelphia.org

Sponsorship/Exhibit Opportunities:

Sponsorship Price \$200.00

- Sponsorship includes:
 - Tabletop booth (*skirted and dressed*)
 - Listing on IEEE Philadelphia Section website and all printed materials and handouts
 - Free job postings on ieeephiladelphia.org for one year, as well as ¼ page in the IEEE Philadelphia "Almanack" Publication (\$250 value)

Sponsorship Price \$75.00

- Sponsorship includes:
 - Tabletop booth (*skirted and dressed*)
 - Free job postings on ieeephiladelphia.org for one year

Contact Information for Sponsorship:

Penn State Great Valley
30 E. Swedesford Road
Malvern, PA 19355
Jay Polakoff, CSM
Senior Manager, Workforce Solutions

IEEE Philadelphia Section Career Fair

Email: jep20@psu.edu
Phone: 610.648.3346
Fax: 610.725.5294

Introduction to our campus:

Penn State Great Valley is one of the 24 campuses in the Penn State system. Our campus was established in 1988, as the first university campus in the U.S. to be located in a corporate park.

We are proud to be the only campus in the Penn State system that exclusively offers Graduate Studies, as well as Custom Programs and Corporate Training, in addition to Professional Development Programs through the Continuing Education Department. Our campus is a Registered Education Provider (R.E.P.) with the Project Management Institute (PMI). We are especially proud to be the only university in the world that is a Registered Education Provider (R.E.P.) with Scrum Alliance, and authorized to deliver the Certified ScrumMaster (CSM), Certified Scrum Product Owner (CSPO) and Certified Scrum Developer (CSD) programs.

Agreement:

The Company/Division identified below as "Exhibitor" applies to Penn State Great Valley Continuing Professional Education Department the "Organizer" for Sponsorship and exhibit space at the October 30th IEEE Section Career Fair

- Applications for Sponsorship are not deemed to have been accepted until sponsor receives written notice via email or fax.
- Payment is expected no more than 30-days after event. Approved sponsors will receive an invoice under separate cover.
- **Deadline for application October 24, 2014**

Sponsorship Application Process

- Submit completed application via Fax or Email to:
Penn State Great Valley
Continuing Professional Education Department
attn.: Jay Polakoff, CSM
Email: jep20@psu.edu
Phone: 610.648.3346
Fax: 610.725.5294
- Applications for Sponsorships are accepted on a first come, first served basis.
- Booth Setup:
 - Tabletop Booth is to be set up no later than 12:00 p.m.
 - Sponsors are able to set up at 7:45 a.m. on the morning of the event.

IEEE Philadelphia Section – Career Fair

Sponsor/Exhibitor Information:

Company Name/Division:		
Sponsor Name for Marketing:		
Billing Address:		
City:	State:	Postal Code:
Telephone:	Fax:	
Company /Division URL:		
Primary Contact:	Title:	
Email:		
Office Phone:	Cell Phone;	

The 5th IEEE Integrated STEM Education Conference (ISEC '15)

Friend Center at Princeton University
Princeton, NJ, March 7, 2015

We welcome submissions for the **5th IEEE Integrated STEM Education Conference (ISEC '15)**, which will be held **Saturday, March 7, 2015** at Friend Center, Princeton University, Princeton, NJ. ISEC is known for presenting cutting-edge research and experiences with integrated approaches to the study of science, math, and technology through experiences and activities based in engineering and other design disciplines.

This year's theme is **Creating a Culture of Achievement**. While all papers on methods of and experience with integrating education (or interdisciplinary education) in science, technology, engineering, and mathematics (STEM) studies are welcome, we are very interested in papers on STEM initiatives that have resulted in improved student performance in STEM studies, especially among students from underrepresented populations in the disciplines.

Please submit your work for review from **Wednesday, October 1, 2014** to 11:59 pm EST **Sunday, November 30, 2014**. Submission instructions and templates are available on the conference's web site. Your work must not have been published or submitted for publication elsewhere. Your submission will be one of the following: a full paper (4 - 6 pages) or posters by K-12 students (may include a paper of 1 - 3 pages for inclusion in the proceedings).

Acceptances will be sent no later than **Sunday, January 4, 2015**. Information on **student travel awards** will be available by that date as well. The deadline for submitting a revised paper is **Sunday, February 1, 2015**. All accepted submissions will be scheduled for presentation at the conference and included in the conference proceedings. All presented papers will be submitted for archival in IEEE Xplore.

New this year is the UnConference, a "town hall" session where YOU drive the discussion. We are pleased that Christine M. Cunningham, PhD, founder and director of Engineering is Elementary (Boston Museum of Science) and a Fellow of ASEE; and Sonpreet Bhatia, co-founder and CP&TO of MobileROI will be our keynote speakers. And the best paper award returns for its third year!

You will receive the following for the conference fee: admission to ISEC and its affiliated conference, the Trenton Computer Festival; conference proceedings; and breakfast and lunch. The advanced registration fee schedule is \$130 (IEEE members) / \$150 (non-members) and \$35 for K-12 teachers (CEUs will be awarded) and K-16 students. These fees are good through 11:59 pm EST **Saturday, February 28, 2015**. After that time, the fee schedule is \$150 (IEEE members) / \$200 (non-members) and \$50 K-12 teachers and K-16 students.

Information on the **40th Trenton Computer Festival**, which will be held on Super Pi Day Saturday, March 14, 2015 is available at tcf-nj.org, and on the **Information Technology Professionals Conference**, to be held Friday and Saturday, March 13 - 14, 2015 is at princetonacm.acm.org/tcfpro/.

ISEC 2015 is sponsored by the IEEE Princeton / Central Jersey Section with technical co-sponsorship by IEEE Region 1 and the IEEE Education Society.

Please visit <http://ewh.ieee.org/conf/stem> or contact isec.march7.2015@gmail.com for more information. We're also on Facebook (search for ISEC and like us!) and Twitter (follow us @ISEC15). **We look forward to your participation in ISEC 2015!**

CONET Meeting News

The next CONET meeting will be held on **Tuesday, October 7**. The October 7 meeting is expected to feature Mr. Jim Davey, P.E., a radio frequency (RF) communications consultant. Mr. Jim Davey shall narrate his personal journey of 35 years in the field of RF communications, including his transition from staff engineer to independent consultant. Mr. Davey shall discuss the reasons to make (or not to make) such a transition, touch on the hardships endured and preparations made to facilitate such a transition, and share the lessons he learnt from navigating the various turning points in his career as an RF communications professional.

One Man's Saga to Consulting in RF Communications

Presented by Jim Davey, P.E.

Date: Tuesday evening, 2014 October 7

Place: Sheraton University City, 36 & Chestnut Streets, Philadelphia PA 19104

Fairmount/Franklin Suite – downstairs from main lobby

Free Parking for CONET Members: Sheraton indoor garage – entrance on 36th Street. Take your garage ticket, and have it stamped when you sign in to the meeting. For information on becoming a member, go to <http://www.philaconet.com>

Networking/Social time: Starts at 5:30 PM

Dinner: 6:15 PM (Be sure to allow for rush-hour traffic or inclement weather.)

Program: 7:00 to 9:00 PM

Abstract: How does one move from the corporate world to consulting? Would you really want to? What practical considerations must be addressed? What hardships endured? What preparations made? This presentation will cover some of the turning points and lessons learned in one person's personal journey of 35 years.

Speaker's Background: Mr. Davey has worked in the RF communications field since 1979 in a variety of roles from staff engineer to consultant for companies such as Nortel Networks, Motorola, and Comcast. In that timeframe, he has concentrated on three primary technologies: land-mobile radio and point-to-point microwave (10 years), digital cellular infrastructure (15 years), and wireless data networks (10 years). His primary work is

at the systems level where he is often asked to develop functional specifications, determine the interaction between different RF networks, or design and conduct tests to find the root cause of system behavior. He also maintains an active hobby interest in communications science and has contributed many published articles and conference papers over the years. He has been a consultant to Comcast since 2007 and is currently assisting the XFINITY WiFi Program in new product design and strategies to navigate the ever-increasing technical challenges for wireless delivery of services.

Admission

CONET Members	IEEE Student Members	All Others
A: With Dinner \$30	A: With Dinner \$40	A: With Dinner \$40
B: Meeting-Only Free	B: Meeting-Only Free	B: Meeting-Only \$15

Reservations, and Payment

A: With Dinner: Reservations and advance payment are required.

- 1) Reserve by sending an e-mail to CONETtreasury@gmail.com Include your full name and telephone number.
- 2) You will get an e-mail confirmation with instructions for paying by check or credit card.
- 3) Advance payment is required to reserve space for dinner.
- 4) Payment by check must be received no later than Wednesday, October 1, 2014. The credit card deadline is Friday, October 3, 2014.

B: Meeting-Only: Reservations preferred. Walk-ins (space available).

- 1) Reserve by sending an e-mail to CONETtreasury@gmail.com Include your full name and telephone number.
- 2) You will get an e-mail confirmation with instructions for paying by check or credit card.
- 3) Advance payment is not required for meeting-only admission.
- 4) Check or exact cash is accepted at sign-in. (No credit card payment at sign-in.)

The IEEE Philadelphia Consultants Network (CONET) is an Affinity Group of the IEEE. Most Members are electrical or computer engineers. The CONET mission is to share knowledge through technical and business networking. For details, and information on becoming a member, you may go to www.PhilaConet.com

Open: You do not have to be an IEEE member or a CONET Member to attend this meeting. Meeting updates will be sent by e-mail: Be sure your current e-mail address is in our records. If in doubt, confirm your current e-mail address to CONET.Phila@IEEE.org

Questions can be directed to Robert Peruzzi at (610) 462-3939 or by e-mail to Peruzzi@RPeruzzi.com

Our mailing address is:

Philadelphia IEEE Consultants Network (CONET)
c/o R. Peruzzi Consulting, Inc.
719 Fourth Avenue
Bethlehem, PA 18018

Kindly visit **www.PhilaCONET.com** for information on membership, up-coming meetings, pass meeting presentations, and to learn more about the wide range of consulting services offered by CONET consultants from CONET's online Consultant Directory[®] 2014 Philadelphia IEEE Consultants Network (CONET) All rights reserved.

IEEE NJ Coast Section

Conference on Information Security/Cyber Security and Privacy

November 12, 2014 (Wednesday)

IEEE OC, Piscataway, New Jersey 08854, USA

Since the turn of the century, information security, cyber security, and privacy have become more critical in our business, government, travel, healthcare, and every-day lives. With society's exploding dependence on online, digital, and wireless technologies, effective government-compliant security solutions have become increasingly important in everyday life. Whether you are a security expert or a novice, practical solutions are crucial in your industry as well as personal life. Join us at this upcoming conference to hear more about these important topics from business, academia, and research. Take some time with us to catch up on the latest trends, review the issues, and take away practical ideas to enhance security of your world.

Keynotes, Invited Speakers, Students, and Industry Representatives

The day will begin with a social breakfast. The morning keynote, 'Wanted: A Revolution in Security Research' will be delivered by Dr. Gus de los Reyes, AT&T Chief Security Officer, R&D, and the afternoon keynote, 'Mobile Management and Security' will be delivered by Mr. Caleb Barlow, IBM Director, applications, data and mobile security. Both talks promise to be up to the minute, exciting, informative, and thought provoking.

Visit the many industry representatives participating in the event to learn about the latest commercial solutions. Lively discussions with the keynote speakers, invited speakers, peers, and student poster judging will continue over breakfast, lunch and afternoon snack breaks – which are included in the modest attendance fee. Concluding remarks, prizes and awards will end the day.

Who Should Attend?

This conference is geared to IEEE members, non-members, students, and guests who would like to review the state of the art in security, cyber security, and privacy and become aware of issues and directions of research, academic, and practical solutions.

What Will You Learn at This Conference?

If you have considered learning more about security, this is an ideal event to attend. Awareness of security, cyber security, and privacy improves your job, consulting, and life skills. You will get Professional Development Units PDU (Continuing Education Units (CEU)).

Venue

The venue for this conference, IEEE Operations Center (OC) in Piscataway New Jersey, is a premier location to attend an event. The IEEE OC is steeped in history; this location holds artifacts and multimedia installations recounting the achievements of IEEE engineers and marks the significant engineering innovations from various disciplines worldwide. Bring a friend, colleague or student.

Attendee Registration	Before Sept 15	Before Oct 17	After Oct 17
IEEE member	\$35.00	\$45.00	\$65
IEEE student member/Life Member	\$15	\$25	\$50
Non-Member	\$100	\$125	\$150
Non-Member student	\$25	\$35	\$50

Industry Representatives Registration	Before Sept 15	Before Oct 17	After Oct 17
Table & Product demonstration	\$500.00	\$600.00	\$700.00
Product Presentation	\$500.00	\$600.00	\$700.00

For More Information please visit the IEEE New Jersey Coast Section website
<http://sites.ieee.org/njcoast/>

Please register at

https://meetings.vtools.ieee.org/meeting_view/list_meeting/25959

For your information, IEEE Membership fees are: \$187/year (IEEE Student Membership fee: \$32/year)

The agenda is at the meeting web site.

Lehigh Valley Section Event

IEEE Philadelphia Section Members,

You are invited to attend a Solid-State Circuit Society (SSCS) min-conference at Lehigh University on October 15, 2014. Lehigh University is one of the stops for the 2014 SSCS Distinguished Lecturers East Coast Tour. Full details are in the attached flier, but here is an overview of the event.

Three SSCS Distinguished Lecturers will present a mini-conference at Lehigh University, Princeton University and Columbia University on October 15, 16 and 17, respectively.

Speakers, times and topics

R. Jacob Baker	4:15	K-Delta-1-Sigma Analog-to-Digital Converters
Frank O'Mahony	5:30	On-Chip Voltage and Timing Diagnostic Circuits
Payam Heydari	8:00	THz and Millimeter-Wave Freq. Generation and Synthesis

An flyer will be posted on the web..

Cheers,

Robert O. Peruzzi, PhD, PE

R. Peruzzi Consulting, Inc.

Mixed-Signal Electronics Consultant



IEEE WIE Philadelphia Section Forum

Monday October 6th, 2014 @ 6:00 PM

**Location: InterDigital Communications,
781 Third Avenue, King of Prussia, PA, 19406**

*Guests will talk
about:*

*Open to all women, men and students in the Tri-State Area
who are involved or want to be involved in STEM!*

Girls scouts program

Kathleen M. McDevitt IEEE USA WIE Liaison

STEM education

Lynne A. Molter Sc.D., Swarthmore College

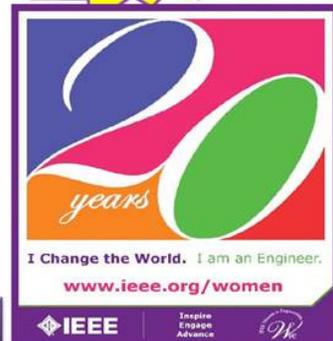
Marconi Challenge

Dennis Silage PhD, Temple University

Robot Challenge

Neville Jacobs and Jay Gamerman

Free Registration!



Register by sending an email to VickyDrury.IEEE@gmail.com

Design of Delay Locked and Phase Locked Loops

Joint Meeting of IEEE Philadelphia Chapters of CSS, CAS, SMCS and AESS

Meeting Details:

Speaker: Saeed Abbasi; Principal Engineer, Advanced Microelectronic Devices.

Date: Monday, November 10, 2014

Time and Location: 7:00 PM - 8:30 PM; Tolentine Hall, Room 215, Villanova University, 800 Lancaster Ave., Villanova, PA.

Cost: No Charge.

Registration: vtools to register online.

Abstract: Using phase-locked loops (PLL) and delay-locked loops (DLL) are two techniques which have contributed significantly to the cutting edge development of chips in the past 20 years. The invention of PLL schemes has made this intellectual property (IP) very important for any system on chips. This presentation will address three phases of DLL/PLL development: 1) system design, 2) noise modeling and 3) design approach. Each section will cover the theoretical and practical aspects related to each phase. Discussion of system design will include detailed comparisons between different loop architectures with their advantages and disadvantages. Noise modeling will focus on the impact of each cell on the total RMS jitter. Also, different design practices will be presented for each cell in the loop and cells that are interfaced with each other. In conclusion, an overview will be given on the theoretical concepts used to optimize IP design performance.

Biography: *Saeed Abbasi* has lived and worked in the Philadelphia area for over 30 years. He received his B.S. and M.S. degrees in Electrical Engineering from Villanova University in 1993 and 1999, respectively. He is a member of the National Engineering Honor Society (TAU BETA PI) and ETA KAPPA NU Association. He holds 15 patents and patents pending related to phase-locked loop, delay-locked loop, analog-to-digital convertor, digital-to-analog convertor and fast crystal startup oscillator circuits. Several of his PLL and DLL patents focused on multi-GHz clock signals from CMOS 180 nm to CMOS 20 nm technology. He spent the majority of his career on mixed signal CMOS circuit design for Tyco and ATI/Advanced Microelectronic Devices (AMD). His most recent interests as a principal engineer (PMTS) for AMD include low power and high frequency analog/digital CMOS circuit design in the multi-GHz range for CPU, GPU and APU. He also maintains a strong interest in the design of circuits in more exploratory technologies.

IEEEExtreme 8.0: IEEE's Flagship Programming Competition is Coming Soon!

By Christopher Wright, Membership Marketing & Sales Specialist

Member Market Development, IEEE Member and Geographic Activities Department

The IEEEExtreme team would like to extend a personal invitation to all IEEE members who would be interested in hosting, proctoring, or promoting IEEEExtreme 8.0, IEEE's flagship computer programming competition beginning on 18 October, 2014 at 00:00 UTC.

IEEEExtreme is a great opportunity for college students to prove their coding skills in a well-known international competition—potentially improving their future career prospects—and compete for a set of great prizes. There is no direct fee for participating in the competition, as it is an educational entertainment benefit for our IEEE student members. If students are not yet members of IEEE, they can take advantage of a special offer from Computer Society—our premier partner—and enjoy membership in both organizations.

If you believe that students would be interested, please publicly post some IEEEExtreme 8.0 flyers at your local school and spread the word about the competition.

Additionally, we have developed a short student/proctor guide and a media press kit for the convenience of those helping to coordinate a local IEEEExtreme event; we will be hosting informational webinars on these topics on 12 September and 19 September, which you can sign up for here.

As always, you can check out our IEEEExtreme website for further registration information and competition rules. Any related questions can be directed to IEEEExtreme@ieee.org. <
http://www.ieee.org/membership_services/membership/students/competitions/xtreme/index.html>

**The Engineers Club of Philadelphia &
Pennsylvania Society of Professional Engineers
Philadelphia Chapter
Dinner Meeting and Courses**

Light Dinner: 4:15 PM to 5:00 PM

Course #1: 5:00 PM to 6:00 PM

Course #2: 6:00 PM to 7:00 PM

Thursday, October 2, 2014

HVAC Controls I

**Presented by
Vlad Gudesblat**

And

**Law for Engineers - Legal Basis for Formation, Interpretation
and Enforcement of Contracts**

**Presented by
Fredric L. Plotnick, Ph.D., Esq., P.E.**

The Courses have been evaluated and each will be accredited for 1.0 Professional Development Hour by the Pennsylvania Society of Professional Engineers to meet continuing education license requirements in New York State. PSPE believes that both courses will be accepted for credit in PA, NJ and other National Model states where Ethics Courses are acceptable and courses do not require pre-approval.

**Sheraton Philadelphia University City
36th & Chestnut Streets
Philadelphia, PA 19104
215-387-8000**

Price using Paypal - \$25.00

Engineering Student Price using Paypal - \$20.00

(Sheraton's Inside Parking – Additional \$5 with Validation)

FOR RESERVATIONS GO TO:

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

Celebrate the fifth annual IEEE Day on 7 October

The day commemorates the 1884 meeting in Philadelphia when members of the American Institute of Electrical Engineers, one of IEEE's predecessor societies, gathered for the first time to share technical ideas. IEEE volunteers—through their sections, student branches, or other regional organizations—are organizing a potpourri of celebrations.

IEEE Day—which was a winner in the 2010 Member and Geographic Activities Challenge that asked members for proposals that would deliver tangible member products, services, and increase the value of IEEE membership—is an event to give local units the opportunity to celebrate IEEE on the same day around the globe. In the first year, 75 activities were held. The event has grown annually, with more than 400 celebrations last year. Organizers hope to reach 555 activities this year, involving all 10 IEEE regions.

“We couldn't do it without our members, our fans and followers, our volunteer organizers, and all of the many folks around the world who have been with us at various stages along the way,” says IEEE Member Bibin Parukoor Thomas, who is organizing social networking campaigns for the celebrations.

SOCIAL MEDIA ACTIVITIES

In keeping with IEEE Day's fifth anniversary, this year's organizers have planned a social media strategy focused around the number 5. The #Gofor5 campaign is on both Twitter and Facebook, allowing members to use the hashtag to share their experiences.

“We want our member community across the globe to share their favorite IEEE stories with us in our #Gofor5 campaign,” Thomas says.

Members are encouraged to submit videos of their celebrations to the IEEE Day channel on YouTube, or to upload them to their own site using the IEEE Day tag so they can be readily shared.

Members who can't make it to a celebration can, Thomas points out, check out the activities on the IEEE Day Facebook page.

PHOTO CONTEST

IEEE Day once again features a photo contest, this year with 10 categories: top three general photos, most creative photo, most energetic photo, best photo to include a landmark, best humanitarian activity, best technical activity, best professional development activity, and largest gathering. The winning photographers will receive cash prizes, and their images will be displayed on the IEEE Day website. Rules for the photo contest will be posted on the website soon.

“The photo contest has always been a big attraction,” Thomas says, noting that several hundred pictures were submitted last year, including one from the orphanage effort—which won the humanitarian category.

Ernest's Page

Energy - fossil fuels and other sources

By Ernest Cohen, Ph.D.

Electrical energy is the most flexible form of energy known to humans. We electrical engineers know how to design and build devices that can convert it into motion, heat and even cooling. It can be produced from many sources. The largest source today is fossil fuels, often coal, but electrical energy can be produced from flowing water (hydropower), from wind, from nuclear reactions (fission today, but possibly fusion in the future) and even directly from solar radiation. This puts us in the forefront of those who must find ways to deal with the problem of anthropogenic climate change.

I hope that very few of the readers of this Ernest's Page are climate change deniers. The temperature measurements, and changes in glaciers along with other evidence show that the Earth is warming up. The physics of radiation clearly indicate that carbon dioxide in the atmosphere helps keep this planet warm by absorbing long wave length radiation (infra red), and being transparent to shorter wave lengths (visible light), and the level of carbon dioxide is known to be rising. This is mostly attributed to human activities: burning of fossil fuels for energy, and clearing forests for agriculture.

Meteorologists are busy trying to predict the impact of global warming on the weather. So far, it seems to change precipitation patterns, increased rain (and flooding) in some areas, and drought in others, along with more violent storms. These effects take place slowly, and don't always show up within any one year.

I pose a thought question for electrical engineers and others with technical backgrounds: What is the only source of energy on Planet Earth that is not directly or indirectly from nuclear reactions? The answer is tidal power, which comes from the Earth's rotation. I have it from my brother, Martin Leonard Cohen, who spoke at a section meeting a while back that the year 2000 was the longest year because one second was added to compensate for the slowing of the Earth's rotation over several centuries. Obviously fission is the source of energy at nuclear power plants. Fossil fuels were formed from photosynthesis, using solar radiation, powered by hydrogen fusion, and both wind power and hydropower depend upon solar radiation.

Of course, as anthropogenic climate change deniers like to state, human activities are not the only force controlling average global temperatures. Changes to the Earth's orbit, absorption of carbon dioxide by plants (and storing the carbon as fossil fuels), volcanic emissions, and other factors are involved. The globe has undergone ice ages, and extremely warm periods. But the current increase in global temperatures, and the resultant changes in weather patterns which seem to be harming many wild species as well as agriculture, are caused by human activities, involving use of cheap energy from fossil fuels. As engineers, we can play a significant role in changing this trend.

JOKE FILLER

Subject: Harley Mechanic vs Cardiologist

A mechanic was removing a cylinder head from the motor of a Harley motorcycle when he spotted a well-known cardiologist in his shop. The cardiologist was there, waiting for the service manager to come and take a look at his bike when the mechanic shouted across the garage, "Hey Doc, want to take a look at this?"

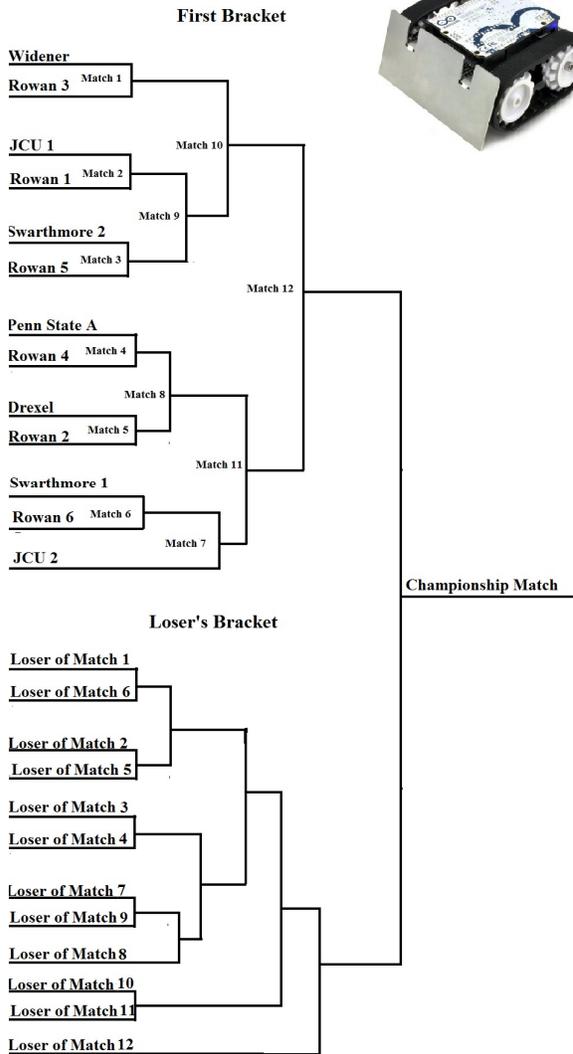
The cardiologist, a bit surprised, walked over to where the mechanic was working on the motorcycle. The mechanic straightened up, wiped his hands on a rag and asked, "So Doc, look at this engine. I open its heart, take the valves out, repair any damage, and then put them back in and when I finish, it works just like new. So how come I make \$39,675 a year and you get the really big bucks (\$1,695,759) when you and I are doing basically the same work?"

The cardiologist paused, smiled and leaned over,

Then whispered to the mechanic...

"Try doing it with the engine running. "

First competition Sept. 16
Rowan University IEEE Student Branch
Sumo Robot Tournament



Philadelphia Section Looking for IEEE Awards Candidates

The Philadelphia Section IEEE Awards Committee needs your help in the process of nominating members (yourself included) to the Senior Member and Fellow membership grades, and to receive IEEE awards and medals. The committee is seeking the names and biographies of individuals whose meritorious achievements in one of the areas of IEEE interest — Electrical Engineering, Computer Science and allied branches of Engineering, Arts and Sciences — deserve wide recognition. Many significant contributions to the profession that originated in Delaware Valley companies and universities are yet to be promoted and properly recognized by the IEEE.

The **Senior Member** grade is the highest professional IEEE grade for which application can be made. This grade requires the candidate to have been active professional practice for at least ten years. Evidence is requested for significant performance of the candidate over at least five of these years, as an engineer, scientist, educator, technical executive, or technical originator. The awards committee will gladly furnish application forms to interested members, and help in preparing the application

The **Fellow** grade recognizes unusual distinction in the profession, and is conferred by the IEEE Board of Directors. IEEE Fellows are individuals of outstanding and extraordinary qualification and experience in IEEE fields of interest. Nominations to the Fellow grade are made by peers of the nominee, and are usually supported by other Fellows, by local IEEE Chapters and by an IEEE Society.

The IEEE also bestows recognition on its most outstanding members in the form of a Medal of Honor, IEEE Medals, Technical Field Awards, Service Awards, and Paper-Prize Awards.

The IEEE Philadelphia Section will help nominators and nominees in preparing forms, locating appropriate nominators, endorsing candidates for awards and medals, and

sometimes serving as the nomination body. We strongly encourage members of our Section to contact the committee for information, nomination kits, and general assistance in the process.

The various Philadelphia Section Awards available for nomination are:

Philadelphia Section Engineer of the Year Award

The Philadelphia Section Executive Committee seeks nominations for the IEEE Delaware Valley Electrical Engineer of the Year Award. The Electrical Engineer of the Year will be recognized at the Section's Annual Awards Banquet. Nominees should be engineers who are members of the section, and who have demonstrated excellence in technical, scientific, academic, or managerial endeavors. The award emphasizes creative, important, and widely recognized work.

**Nominators are asked to submit a short letter of nomination (1-2 pages) and a resume of the candidate.*

Young Electrical Engineer of the Year Award

The Philadelphia Section Executive Committee seeks nominations for the IEEE Delaware Valley Young Electrical Engineer of the Year Award. This person will be recognized at the Section's Annual Awards Banquet. The nominee must be under 35 years of age before January 1, 2008 and should be a graduate of an accredited curriculum with a degree in Engineering or a related field. The award emphasizes creative, important, and widely recognized work. An additional part of the judging will be the candidate's contribution to professional, civic, and charitable affairs.

**Nominators are asked to submit a short letter of nomination (1-2 pages) as well as a resume of the candidate.*

Benjamin Franklin Key Award

The IEEE Philadelphia Section invites nominations for its annual Benjamin Franklin Key Award to recognize an electrical engineer in the Philadelphia Section for outstanding technical innovation and technological contributions that have had significant practical applications. The award emphasizes technical innovation, such as a system (design and application), a significant improvement to a system, or patents of clear practical values. Emphasis will be put on tangible technical and technological achievements that demonstrate intellectual, industrial, economical or human benefits.

**Nominations should include:*

- 1. A description of the nominee's technical invention, system, project, or patent*
- 2. A proposed citation (30 words or less)*
- 3. The nominee's curriculum vitae*
- 4. Additional evidence demonstrating the invention, system, project, or patent*

Philadelphia Section Corporate Technology Innovation Award

The IEEE Philadelphia Section invites nominations for its annual Corporate Technology Innovation Award. This award recognizes a company or corporation for its outstanding contribution to electrotechnology. The award emphasis developments, projects, products, and other group achievements, that have been very innovative and successful.

**Nominations should include:*

- 1. A description of the nominee's technical accomplishment*
- 2. A proposed citation (30 words or less)*
- 3. Any additional appropriate information*

Submit ALL nominations by December 15, 2014 to:

Merrill W. Buckley, Jr., Awards Committee Chair

IEEE Section Office, 11 Bala Avenue, Bala Cynwyd, PA 19004.

Think carefully about your fellow workers and about your own contributions. Don't be shy! We really need your help. Call with the name of a potential awardee; even your own. For more information, please call the Section office at 484.270.5136, or use email at sec.philadelphia@ieee.org.

Section Election

Under our bylaws, all elected positions require two or three candidates. If there is no one nominated the officer in that position has his/her term extended for a year. Two posts fall into this category. Chair – Philip Gonski continues; Treasurer – Richard Primerano continues. Two offices are contested.

For Vice-chair: Adam Fontecchio and Peter Silverberg

For Secretary: Leonardo Urbano and Justin Mazur

Please read the information below and when the ballots arrive, vote!
Also- Thank You Nominating Committee for providing candidates.

CANDIDATES & BIOGRAPHIES

Candidates for Vice-Chair: Fontecchio and Silverberg

Vice-Chair Candidate: Adam Fontecchio, Ph.D.

Position Statement

The last two decades have seen far reaching changes in the way engineers and computing professionals work, and in the manner by which students in these disciplines are educated. Our profession is affected profoundly by the proliferation of electronic communications and by advancements in computing and computational tools. We also witness the gradual disappearance of the barriers between our disciplines and other professions, especially the life sciences. In this new environment, IEEE and the IEEE Philadelphia Section need to retool themselves to serve effectively industry professionals as well as educators and students. Among other opportunities, we should make optimal use of timely electronic delivery of information to our members about relevant new inventions, algorithms and technologies; provide for effective on-line conferences and continuing education; enable networking between professionals and between students; and increase the ties between local universities to local industry. We also have the opportunity to make the Philadelphia Area a much more central destination for technical conferences, symposia and educational workshops. As Vice Chair of the Section my main goal will be the transformation of the Section to meet these challenges, and to develop a long term plan that will make the

Section once again relevant and useful to its members. I will work with the Chair and the Executive Committee of the Section to ensure that the Philadelphia Section is member-oriented, focused, nimble, and adaptive, and that it stays away from the “business as usual” approach that is guaranteed to hinder our progress. I will act to re-examine many routine activities that the Section has inherited from decades of habit, retain only what is still clearly useful, discard what is obsolete, and put the Section’s efforts in pilot projects that would allow us to increase the value of membership to existing members, attract new members, and improve the retention of students in IEEE upon graduation.

Biography

Dr. Adam Fontecchio is a Professor of Electrical and Computer Engineering and the Associate Dean of Undergraduate Affairs in the College of Engineering at Drexel University. He is the Co-Director of Drexel University's Expressive and Creative Interaction Technologies (ExCITE) Center, a hub for enabling teams of faculty, students, and entrepreneurs to pursue highly multi-disciplinary collaborative projects. He is also a leading researcher in investigations of liquid crystal interactions to develop novel devices. Using electrically controlled Bragg gratings, he has developed novel multiplexed formation techniques for reflective displays, remote sensing wavelength filtration and a novel strain gauge. He has received more than \$10M in sponsored research funding, and authored more than 80 peer-reviewed papers. He is the recipient of a NASA New Investigator Award, the Drexel Graduate Student Association Outstanding Mentor Award, the Drexel University ECE Outstanding Research Achievement Award and the International Liquid Crystal Society Multimedia Prize. Among his IEEE volunteer position is Faculty Advisor to the Drexel University Student Branch since 2006. Dr. Fontecchio holds B.A. (1996), M.S. (1998) and Ph.D (2002) degrees – all from Brown University.

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**Vice-Chair Candidate: Peter Silverberg**

**Position Statement**

After ten years on Adcom as Communications Chairman, I thought it might be time to become line officer in the Section. I would be an ideal Vice-Chair as I will not need any training. Term limits of the Engineers’ Club and the A&A committee will free me for more Section-specific activity. I will concentrate of four specific areas:

1. Awards Banquet is a duty of the VC. I will make sure that everything goes off without a hitch.
2. We have volunteers in the section who are unheralded. I will search them out and arrange some recognition. Parallel to this, I will pursue enlarging the pool of volunteers. Because of my connections with the Engineers’ Club of Philadelphia, I have access to many opportunities.
3. I want to draw more of our 4000 members into Section activity. They concentrate on Societies and downplay “you live here too.” We are doing better as various chapters are holding more meetings than in the past. Attendance at IEEE Night is modest and so I will solicit ideas on raising attendance.
4. I will be diligent at attending Adcom meetings as the section has a lot of business to cover.

## **Biography**

Peter M. Silverberg, Senior Life Member, is currently the Communications Chairman of the Philadelphia Section. For the last ten years he has edited the Almanack and administered the Section's website. He also is a member of the Board of Directors of the Engineers' Club of Philadelphia, as liaison for the IEEE since 2008, term expires 2016. He also has membership in the Professional Communications Society and the Dielectrics and Insulation Society of the IEEE and is a Professional Engineer registered in Ohio. He will be the Publicity Chair of the 2016 Radar Conference.

Peter has been on two Congressional Visits, served as a judge of Future City and Science Fair and provided references to others to advance from Member to Senior Members. He has participated in the panels on elevations three times. He completed a 2010 project to install a Milestone plaque at the American Philosophical Society honoring Benjamin Franklin as the first true researcher into electrical physics. He has been the Region 2 representative on the MGA Admissions and Advancement Committee 2012-2014. Was coordinating judge of Student Writing Contest in Section 2008, 2009, 2010, 2012, and 2014.

Peter graduated from MIT in 1960 with a S.B. in Chemical Engineering and in 1961 with a S.M. in Chemical Engineering Practice also from MIT. He became a P.E. in 1977. Joined IEEE as Member March 1, 1975; Senior Member October 1, 1983; Life Senior Member January 1, 2008. (You do not have to come from a traditional EE background to be in IEEE.) I delivered papers at conferences of the Dielectrics and Insulation Society 1975 to 1984. I held seven interesting jobs before formally retiring in 2008. The last two were in editing technical magazines. I published nine articles before becoming an editor and then rewrote too many to carefully count.

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## **Candidates for Secretary: Urbano and Mazur**

### **Secretary Candidate: Leonardo F. Urbano, Ph.D.**

#### **Position Statement**

I am the current Secretary of the IEEE Philadelphia Section and I am seeking your vote again so that I may continue my work to ensure Section transparency and openness and commitment to STEM (Science, Technology, Engineering and Mathematics) outreach initiatives.

2014 was the first year that the IEEE Philadelphia Section operated under the IEEE Member Geographical Area (MGA) Rules that were established to ensure openness and transparency in Section operations. I was the first Secretary in the Section's history responsible for working with the elected members of the ExCom and appointed members of the AdCom to adhere to MGA Rules in conducting Section business.

As Secretary in 2014 I voted YES to provide Section funding for:

- February 7-9 #Hack4Good Hack-a-Thon (\$500)
- March 29 "Beginner's Guide to Arduino" (\$500)

- May 1-3 Women in Engineering International Leadership Conference - travel expenses (\$2,000)
- September 20 IEEE Benjamin Franklin Symposium on Microwave and Antennas Sub-systems (MASS) Applied to Aerospace, Wireless and Biomedical Applications (\$5,000)
- SUMO robot kits to support the intercontinental partnership between IEEE Student Branches at Rowan University and James Cook University, Australia (\$2,000)
- Student engineering kits supporting the NSF GK-12 program at the Girard Academic Music School (\$2,000)

As Secretary I have also:

- served on the Section Executive Committee (ExCom) and appointed Administrative Committee (AdCom) Chairs
- provided timely and clearly-written Draft Meeting Agendas and Meeting Minutes to both ExCom and AdCom bodies

In 2015, one of my major goals is to continue to work with ExCom and AdCom to update the Section website ([www.ieeephiladelphia.org](http://www.ieeephiladelphia.org)). Namely, I will work to update the Section website:

- to enable faster updates by replacing the hard-coded design with a modern and simple content management website package like WordPress,
- to enable visitors to rapidly find what they are looking for by making the website Searchable
- and to enable visitors to easily access Section meeting agendas and minutes by hosting the approved documents online in an easy-to-find section.

### **Biography**

Dr. Leonardo Urbano received his B.S and M.S. degrees in Electrical Engineering from Drexel University in Electrical Engineering. Since 2006 he was with Lockheed Martin, where he is at present Senior Engineer in the Weapon Control Systems Department at Mission Systems and Training (MST) in Moorestown, NJ. At Lockheed Martin Mr. Urbano develops, manages and tests missile control and tracking systems for air and ballistic missile defense systems. He published work on secure wireless communications and on radar target tracking. His IEEE volunteer assignments include past service as IEEE Philadelphia Section GOLD Chair.

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Secretary Candidate: Justin Mazur, P.E.

Position Statement

Position Statement

If elected Section Secretary I shall maintain complete and accurate correspondence and minutes of committee meetings. I shall create an annual report on Membership, Meetings and Chapter Activities to be submitted to the Member and Geographic Activities Department.

My goal is to increase communication within the Section to increase the value of IEEE membership and member involvement.

Biography

Justin Mazur, PE is a specialist with over 13 years of Building Management System Design and 8 years of Data Center Power System experience.

Justin started his career in Building Management System design. He designed control systems and programming for complex Central Plant and large Air Handling Unit applications. In 2006 he came to Schneider Electric and is responsible for the Data Center Power System support to the Consulting Engineer community in the Eastern Pennsylvania, Southern New Jersey and Delaware Areas.

He has a BS degree in Mechanical Engineering from Villanova University and is a Licensed Professional Engineer in his home state of Pennsylvania. Justin has been a Member of the IEEE for 2 years.