PHILADELPHIA SECTION of the IEEE

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Almanack

Vol. 61, No. 2 www.ieeephiladelphia.org **February 2016**

SECTION MEETING

Feb. 16, 2016
Dinner: 6 pm
Speaker: 7 pm
Sheraton University City Philadelphia
Meal Cost: $25.00 (students $15.00)
Parking cost paid by section

On the Brink of Technology, Business, and Law
Ashwini Gokhale

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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.

February 2016

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IEEE NIGHT

ENGINEERS' WEEK

Philadelphia Section Meeting

Joint with: Technology Management Package and Society of Social Implications of Technology (EM/SIT), Professional Communication (PC)

Date: Tuesday, February 16, 2106
Time: Dinner is at 6 pm. Program starts at 7 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.

On the Brink of Technology, Business, and Law
Ashwini Gokhale

LawWithoutWalls accelerates innovation and seeds a global community of change agents that are transforming the way professionals solve problems at the intersection of law, business, and technology. LWOW teams 100 students from 30 law and business schools around the world with academic, business, entrepreneur, and legal mentors. Over four months, teams work on finding a solution to a given problem. My team's project topic is "Microsoft's HoloLens, Google Glasses, and Infinity AR: How Should Augmented Reality Change the Legal Marketplace?" In my talk, I will address this specific topic as well as the LWOW program at large.

Ashwini Gokhale is part of the Wharton MBA Class of 2016, majoring in Finance and Management. She completed her undergraduate degree from MIT (Class of 2013) with a major in Electrical Engineering and Computer Science and minor in Economics. Prior to Wharton, Ashwini worked as a Field Engineer at ExxonMobil in Houston, TX. Ashwini continues to stay active in IEEE, and is initiating projects at UPenn involving the Electrical and Systems Engineering undergraduate community. She has served as Secretary (2011) and President (2012) of MIT's IEEE/ACM joint chapter and Membership Development Chair of the Houston Section (2013-14). In her spare time, Ashwini enjoys playing the viola, water skiing, and playing tennis.

Registration will soon be open for Radarconf16

Philadelphia, Pa.—January 27, 2016
IEEE Radar Conference 16 will be held at the Loews Hotel in Philadelphia May 2 to 6, 2016. Registration will be activated soon. The theme is Enabling Technologies for Advances in Radar. The conference website is www.radarconf16.org. It is set up for expedited registration.

As of this date papers are under review and acceptance will commence February 4. Technical sessions will be held May 3, 4, and 5. Split between May 2 and May 6, 24 tutorials are scheduled also. Conference sponsors are the IEEE Aerospace and Electronic Systems Society and the Philadelphia Section of the IEEE. Conference supporters include Lockheed Martin, University of Oklahoma Advanced Radar Research Center, NGC, and SRC. There will also be exhibits from vendors.

The committee has lined up distinguished speakers. For the banquet, May 4, Dean Vijay Kumar, University of Pennsylvania SEAS (School of Engineering and Applied Science). Plenary session speakers include John K. Smith, Moness Amin, Nader Engheta,

Registration Categories	Early On/before 21 Mar.	Standard 22 Mar–22 Apr	Late/Onsite After 22 Apr
IEEE Member	$695	$795	$895
Non-Member	$895	$995	$1095
Student/IEEE Life Member	$375	$425	$475
Student non-member	$405	$455	$505

Tutorials	Early On/before 21 Mar.	Standard 22 Mar–22 Apr	Late/Onsite After 22 Apr
IEEE Member	$235	$265	$295
Non-Member	$290	$320	$350
Student/IEEE Life Member	$100	$115	$140
Student non-member	$120	$135	$160

Peter Silverberg, P.E.
Publicity Chair
pmsilverberg@radarconf16.org
856.461.6615

Section notes

IEEE PHILA. SECTION OFFICERS

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Secretary: Tal Singer; tsinger@centrak.com
Past Chair: Mark Soffa; msoffa@kns.com

Adcom meets second Tuesday of the month (Feb. 9) at the Sheraton University City. Members are welcome to attend. Reserve a seat by calling the office by the Friday before.

Almanack Staff

Publisher: Phil Gonski, P.E.
Editor: Peter Silverberg
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News and notices contact psilverberg3@comcast.net or 856.461.6615 or fax 509.461.6617
Deadline for the March issue is February 9, 2016
New & improved web site: www.ieeephiladelphia.org

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CONET Dissolves

With deep regret, we inform all members that CoNet has voted in the November 3, 2015 meeting to dissolve effective January 1, 2016.

The reasons for CoNet's dissolution are as follow:

- Lack of Purpose for CoNet's Consultants Directory - we find that consultant listing as a core service for CoNet members can now be better served by the IEEE-USA Consultants

Database.

- Dwindling Attendance at CoNet Meetings - we have observed for at least two years that attendances to our regularly scheduled meetings have steadily declined
- Lack of a Chair Person - since our former Chair Mr. Mike Mayor, PE, resigned on September 14, 2015, we have not been able to find any volunteer willing to serve as CoNet's Chair.

No further CoNet meeting is scheduled, and there is no plan to recruit any new member or renew any lapsed memberships (all membership lapsed by the end of 2015).

Thank you for your support for CoNet, and best of luck with your professional development in the future.

Yours truly, and on behalf of the CoNet Board of Directors,
Baw Ch'ng
CoNet Vice Chair

Advertisement

Life Member Tour of Inductotherm

By Bob Paglee P.E., LM

A group of twenty interested visitors enjoyed a highly instructive tour of the Inductotherm facility in Rancocas, NJ on January 14. The tour was conducted by Mr. Emad Tabatabei, Vice President Technology. Here is a preliminary report with photographs, pending completion of a more complete story that will appear in the March Almanack.

Aerial view of Inductotherm facility in Rancocas, NJ. Toured by IEEE Life Member group 1/14/16. Reception area and offices at bottom, factory production area shown above it and to the left. The hangers and beginning of airstrip for Inductotherm aircrafts are seen at upper right. Spare parts are warehoused, and for emergency requests, they can be delivered rapidly by company aircraft.

IEEE Tour Group is seated at table in Show/Discussion Room. Senior Sales Manager Mike Nutt is seen standing at right; there he presented a thorough description of Inductotherm products and worldwide services.

Demonstration featuring robot (orange color) tending two Inductotherm furnaces while standing between them. The robot handles special tools and temperature measurement instruments as a safety feature that avoids exposure of human operators to the high temperatures of molten metals within the furnaces.

Most members of tour group photographed near end of visit. Tour director Emad Tabatabaei, Vice President Technology, is seen standing at far right.

The College of New Jersey Hosts
The 41st annual ORIGINAL PERSONAL COMPUTER FESTIVAL

TCF'16™

NJ Makers Day Partner

CEO and Founder, AssureNet, speaks on

Featured Speaker: Alfred Poor, Publisher of Health Tech Insider, on "7 Success Secrets That Startups Can Learn from "Breaking Bad".

Craig Wentzel, Senior VP, Ridgetop Group, Inc., Conducts a Half-Day Workshop on "Starting Your Own Business"

Admission: $12.00 (advance)
$15.00 at Door
Free Parking / Wi-Fi
www.tcf-nj.org

Apple's Dave Marra Conducts an Apple Track (OS X, iOS, etc.)

Author Barry Burd Speaks on Android Phone Apps and Developing for Amazon Echo

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Tour the Sarnoff Museum of Tech.

DAVID SOLL ON WINDOWS 10

Multimedia, Security, Wearable Technology, Games, Home Control and Historic Computers

Ham Cram Session & Exam: Get an Amateur Radio License in one day at TCF! Cram begins at 9 am.

Arduino Developer/User Tutorial/Workshop

Raspberry Pi Tutorial and Projects

IEEE/ACM IT PROFESSIONAL CONFERENCE
Friday March 18, 2016, 8:30 am — 5:00pm**
Continuing as part of TCF's Saturday Talks.
For Conference Info and Fees see http://princetonacm.acm.org/tcfpro/

TCF Saturday Banquet with Door Prizes.
See TCF Web Site to Buy Tickets.

IEEE Integrated STEM Education Conference (ISEC)**
Saturday, March 5 – 8:00 am — 5:00 pm
at Friend Center, Princeton University, NJ
Theme: Promoting a Community of STE(a)M Learning
Info: http://ewh.ieee.org/conf/stem/

For additional TCF'16 info, directions and advance tickets:
www.tcf-nj.org

***The IT Pro (Friday) and ISEC Conferences require separate registrations.

2016P-rev-05a

International Year of Light Closing Gala

Thursday, February 4, 2016

6:00pm-10:00pm

The Union League of Philadelphia

LEARN MORE

about the International Year of Light

INTERNATIONAL YEAR OF LIGHT

Gala

Thursday February 4th, 2016

6:00pm – 10:00pm

The Union League of Philadelphia – Lincoln Hall
140 S Broad Street, Philadelphia, PA 19102

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Power & Energy Society®

Meeting of the Philadelphia Joint Chapter IEEE Power & Energy and Industry Applications Societies

Topic: Using Synchrophasors to Monitor the Power Grid

Speaker: Shaun Murphy, PJM
Date and Time: Friday, February 19th, 2016
Lunch @ 11:45 a.m.; Presentation: 12:10 – 1:10 p.m.
Cost: No Charge for Presentation
$13 for lunch ($10 for Full-Time Students)
Location:
PECO Main Office Building
2301 Market St.
Philadelphia, PA 19101

Public Transportation: SEPTA (Rail to 30th Street or Suburban Station and/or Trolley to 22nd & Market Street)

Reservations: Please register here: https://meetings.vtools.ieee.org/m/37971 or by visiting www.ieeephiladelphia.org and finding this meeting notice. If you have problems or cannot register online, e-mail or call Stas Muzylowski at smuzylowski@burns-group.com or 215-979-7700, ext 7790, by 5:00 p.m., Wednesday, February 17th, 2015.

Abstract: PJM and twelve of its Transmission Owners received nearly $14 million in federal funds from the Department of Energy to purchase and install nearly 400 Phasor Measurement Units across the PJM territory. Since then, PJM has collected nearly 73 terabytes of Phasor Data and has been working to integrate this data into daily operations. PJM's SynchroPhasor applications include Linear State Estimation, Oscillation Detection, Synchrophasor Simulation, Intelligent Alarming, and PMU placement strategies. PJM's short-term strategy is to improve data quality and to refine its synchrophasor applications to ensure value to control room operators and Transmission Owners.

The Speaker: Shaun Murphy earned a Bachelor's Degree in Electrical Engineering from Virginia Tech in 2012. After graduating, Shaun joined PJM as an ARC engineer in the company's three-year rotational program. He joined the Applied Solutions Department as an Engineer in 2015 and his current work focuses on Synchrophasor Applications, special studies, and other Business Intelligence applications. Shaun earned a Master's Degree in Electrical Engineering from Drexel University in 2014, and is currently pursuing a Ph.D. with a focus on Synchrophasor Applications.

********** 1.0 PDH certificate is available upon completion of course evaluation form **********

Chapter Chair: Jonathan Schimpf, Burns Engineering - jschimpf@burns-group.com (215-979-7700, ext 7709)
Vice Chair: Rich Delp, Schiller and Hersh Associates - rdelp@schillerhersh.com (215-886-8947)
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Join Our Group on LinkedIn! http://www.linkedin.com/groups?gid=3033618&trk=hb_side_g
Check out our website: https://sites.google.com/site/ieeepesiasphiladelphiachapter/
IEEE Philadelphia Section website: www.ieeephiladelphia.org

ISEC 16 Reminder: Advance Registration Closes 2.29.16

6th IEEE Integrated STEM Education Conference (ISEC '16)
Saturday, March 5, 2016
Friend Center and E-Quad at Princeton University
Princeton, NJ

Call for Participation - 6th IEEE Integrated STEM Education Conference (Promoting a Community of STE(a)M Learning)

Registration and housing for the conference are now open! Links for registration and housing at the Westin Princeton at Forrestal Village are on the conference web site. The rate of

$119/night is guaranteed through 5 pm on 2.24.16. Shuttle service between the Friend Center and the hotel will be provided.

We are eagerly looking forward to hearing our keynote speaker, Barbara Oakley, PhD, PE, and ASEE member, speak on the topic *Learning How To Learn*. She is a Professor of Engineering at Oakland University in Rochester, Michigan; a best-selling author (see, for example, *A Mind for Numbers*); and award winning engineering educator. We will also feature our second Unconference on *Integrative and Inclusive Learning* - an "all hands" town hall style session where YOU drive the content – and new this year, an industry workshop track.

The conference schedule will be available mid-February. We will have tracks for full papers, works-in-progress, industry workshops, and posters by K-12 students along with exhibitors.

Information on the Trenton Computer Festival, which will be held on Saturday, March 19, 2016 is available at tcf-nj.org, and on the Information Technology Professionals Conference, to be held Friday and Saturday, March 18 - 19, 2016 is at princetonacm.acm.org/tcfpro/. You are also encouraged to submit abstracts to these conferences; see the web sites for date and submission information.

Please follow us on Twitter (@IEEE_ISEC); like us on Facebook (search for ISEC); email us at isec2016@gmail.com; and visit us at http://ewh.ieee.org/conf/stem for information. We look forward to your participation in ISEC 2016!