

PHILADELPHIA SECTION of the IEEE

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

Almanack



Vol. 60, No. 2 www.ieeephiladelphia.org

February 2015

SECTION MEETING

Feb. 17, 2015

Dinner: 6 pm

Speaker: 7 pm

Sheraton University City

Philadelphia

Meal Cost: \$25.00 (students \$15.00)

Parking cost paid by section

Engineer's Week Meeting

Bernadette Longo, Ph.D., New Jersey

Institute of Technology

**Edmund Berkeley: Modern Methods of
Thinking and the Social Responsibility
of Computer People**

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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 2015

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IEEE NIGHT

Philadelphia Section Meeting

Joint with: Computer Society (C), Professional Communication Society (PCS)
Date: Tuesday, February 17, 2015

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.

Edmund Berkeley: Modern Methods of Thinking and the Social Responsibility of Computer People.

Bernadette Longo, Ph.D., New Jersey Institute of Technology

I have recently completed a book manuscript for a biography of Edmund Berkeley and have been working with the Charles Babbage Institute and the National Museum of American History Archive Center at the Smithsonian Institute for 15 years. A synopsis of the project will be my program

Bernadette Longo is an Associate Dean in the College of Science and Liberal Arts and an Associate Professor at New Jersey Institute of Technology. Her research explores intersections of technology, communication, and culture. Dr. Longo received a History Committee Fellowship in 2012 from the Association for Computing Machinery to complete a biography of computer pioneer Edmund Berkeley. She also received the 2014 Emily Schlesinger Award from the IEEE Professional Communication Society in recognition of her contributions to the Society and to the field of technical communication. Dr. Longo is a Senior Member of IEEE and is currently a member of the Professional Communication Society Administrative Committee. An article on her work in the Democratic Republic of Congo, "R U There? Cell Phones, Participatory Design, and Intercultural Dialogue," appeared in the IEEE Transactions on Professional Communication in 2014. With co-authors David Kmiec and Julia Williams, Dr. Longo is under contract with IEEE Wiley Press to develop The IEEE Guide to Writing in the Engineering and Technical Fields, which will be available in 2016.





Chair's Message:

By Phil Gonski, P.E.

The New Year brings for us what I like to refer to as "Volunteer Season." This is the time for local science fairs, high school career days, Future City, student writing contests, and other outreach programs. In other words, both the IEEE, and the local community can certainly use your help.

If you have not yet ever been to one of the local science fairs, it is a remarkable experience. The level of effort put forth is certainly outstanding, and far better than any displays I ever put together. In March, there is the Montgomery County Science Fair, which the IEEE Philadelphia will be sponsoring.

April is the Delaware Valley Science Fair, of which we will also be in attendance as well. We typically have a contingent of volunteers, but can certainly use your help. Every year there are hundreds of displays and unfortunately, we are not able to speak with all the students.

This is also the season for honoring and celebrating the volunteer efforts of our members and of the engineering community. I am certainly proud to have our Vice Chair, Dr. Adam Fontecchio, being honored as the "Delaware Valley Engineer of the Year." This award is the most prestigious in the local community, and perhaps the first electrical engineer to win the award in two decades.

Our Almanack editor, Peter Silverberg, is also being honored for his longstanding commitment to the IEEE Philadelphia, and the local community.

The Awards will be presented at the upcoming engineering week activities hosted by the Engineers Club.

I wholeheartedly congratulate them on their honors and thank them for their service to the community.

IEEE PHILA. SECTION OFFICERS

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

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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

Excom meets second Tuesday of the month (Feb.10) at the Sheraton University City. Members are welcome to attend. Reserve a seat by calling the office by the Friday before.

CSS, CAS, SMCS Invited Seminar

By Ziauddin Ahmad

Date: February 20, 2015

Time: 1 pm to 2 pm

Location: Skirkanich Hall Room 114, University of Pennsylvania

Speaker: Victor M. Preciado, Ph.D.

Optimal Resource Allocation to Control Epidemic Outbreaks in Networked Populations

ABSTRACT: We study the problem of controlling epidemic outbreaks in networked populations by distributing protection resources throughout the nodes of the network. We assume that two types of protection resources are available: (i) Preventive resources able to defend individuals in the population against the spreading of the disease (such as vaccines or disease-awareness campaigns), and (ii) corrective resources able to neutralize the spreading (such as antidotes).

We assume that both preventive and corrective resources have an associated cost and study the problem of finding the cost-optimal distribution of resources throughout the networked population. We analyze these questions in the context of a viral outbreak and study the following two problems: (i) Given a fixed budget, find the optimal allocation of preventive and corrective resources in the network to achieve the highest level of disease containment, and (ii) when a budget is not specified, find the minimum budget required to eradicate the disease. We show that both resource allocation problems can be efficiently solved for a wide class of cost functions. We illustrate our approach by designing optimal protection strategies to contain an epidemic outbreak that propagates through the air transportation network.

Victor M. Preciado is the Raj and Neera Singh Assistant Professor of Electrical and Systems Engineering at the University of Pennsylvania, where he is affiliated with the Networked & Social Systems Engineering program and the Warren Center for Network & Data Sciences. He received his Ph.D. degree in Electrical Engineering and Computer Science from MIT. He has also been a visiting scientist at UC Berkeley and Santa Fe Institute. His main research interests lie in the modeling, analysis, control, and optimization of large-scale complex dynamic networks, with applications in social networks, technological infrastructure, and biological systems. (No picture was provided.)

IEEE Philadelphia Employment Network Group - Meeting Notice

Date: Thursday, February 26, 2015

Time: 7:00 PM - 9:00 PM

Topic and Speaker: IEEE Employment Network - Job search topics, open discussion roundtable and professional networking – What is more important a topic in the current job market: job search or career management? Moderated by George Szekely

Location: Drexel University Campus, Bossone Enterprise Center , Room 709
3128 Market Street, Philadelphia, Pennsylvania

Cost: No Charge, snacks and drinks will be served

Parking: Parking: Nearby lots: (1) On the left side of Market Street just before 31st Street; (2) on the right side of Market Street, just past 31st Street; (3) from Market make Left on 36th to University City Sheraton garage. Public Transportation: SEPTA (Rail: 30th-Street Station; Subway and Trolley: The Market-Frankford Line (the Blue Line) stops at 30th and 34th Streets and all trolley trains (the Green Lines) stop at 30th and 33rd Streets.)

Vtools to register for this event: <<https://meetings.vtools.ieee.org/m/31719>>



Mark your calendar. The Awards Banquet is scheduled for March 28. Same as last year, the price is a mere \$85 for early registration.

This photo is the Union League where we will be celebrating.

TEN REASONS FOR ATTENDING

THE IEEE Philadelphia Section 2015 Awards Banquet & Gala (March 28)

1. This is one of the best ways to celebrate your engineering profession and to increase your contact and friendship with your peers in the Delaware Valley.
2. The Philadelphia Section is one of the largest and most influential sections in the IEEE. Become a part of its activities.
3. For management, this is an ideal way to reward your engineers and managers and increase your social contact with them and their families in a most pleasant atmosphere.
4. The Union League is one of the most prestigious locations for professional banquets in the Philadelphia area.
5. You will be present and participate when we recognize and reward our outstanding members (your peers) in a short ceremony.
6. The Philadelphia Section partly subsidizes the banquet.
7. You will hear an interesting and provocative keynote address.
8. Organization and corporate sponsorship will be recognized at the Banquet, in the Award Brochure, and in the Philadelphia Section Newsletter (the Almanack), which goes to 4,000 professionals and decision makers.
9. The evening will conclude with a gala that you can enjoy with your friends at your leisure.
10. All in all, this quite an opportunity. Don't miss it.

Be sure to reserve early! Go to the Philadelphia Section Website at www.ieeephiladelphia.org to reserve your seat. Or, call the IEEE Office at 484.270.5136.

Main Office: 11 Bala Avenue, Bala Cynwyd PA 19004, 484.270.5136 sec.philadelphia@ieee.org

Life Member Tour of CSEDS is fully reserved.

By Bob Paglee

Courtesy of Lockheed Martin and the U.S. Navy, a tour of the Navy's VADM James H. Doyle, Jr. Combat System Engineering Development Site is being sponsored by IEEE Philadelphia Section Life Member Group. Known as “The Cornfield Cruiser” the facility is located at 300 Moorestown-Centerton Rd. in Moorestown, N.J. The tour will begin promptly at 2:00 P.M. on Tuesday, February 17, 2015.

It is open to IEEE members and others, but it is necessary to phone the IEEE Office at 484.270.5136 to make a reservation, as space will be limited to 25 visitors. **TOUR SOLD OUT. Ask to be put on a wait list.** You must provide your name, employer’s name (or “Retired”), and citizenship (if not U.S.A., country where you now reside).

Please arrive by 1:45 P.M. to enter the secure area. It will be necessary to stop at the Guardhouse, state your name and purpose (IEEE Tour), and provide a photo ID (driver's license or a passport, etc. with photo). Your name will be matched with the list of reservations from the IEEE Office and, provided all is in order, the guard will indicate that you may proceed to enter and park in any open unreserved space within the enclosed parking lot. Then proceed to the reception area within the entrance shown in the photo below.

USS Rancocas: The Cornfield Cruiser



In the cornfields of southern New Jersey, there rises a sight that makes passersby look twice. It even draws in curious tourists, but this is no tourist attraction.

What looks like a warship among the waving cornstalks is actually, well, a warship among the cornstalks.

Known to locals as the “Cruiser in the Cornfield”—or the USS Rancocas, for its closest body of water, Rancocas Creek—the facility is officially called the Vice Admiral James H. Doyle Combat Systems Engineering Development Site (CSEDS). Housing both Navy and Lockheed Martin personnel, the research and development facility is devoted to the **AEGIS Combat System**, a revolutionary naval air defense system capable of guarding against missile threats from land, sea and air.

Despite its landlocked location, the Rancocas is a commissioned naval vessel, manned by sailors of the U.S. Navy. It holds live equipment with real combat element systems, used by naval

officers and maintained by Lockheed Martin employees who work side by side. The CSEDS allows the integration of full combat systems, making sure they can be tested before they're put to sea. Two live antennae allow the crew of the Rancocas to test the system's capabilities by tracking commercial flights around New York City.

For more details see: <http://www.lockheedmartin.com/us/100years/stories/cornfield-cruiser.html>

BATTERY LOCOMOTIVE

Ernest's Page, by Ernest Cohen, Ph.D

Two years ago, I wrote an Ernest's Page about my connection to the electric car. I can summarize the outcome with a little rhyme:

*If it rarely goes fast, and never goes far,
It is an ideal place for an electric car.*

Recently, I have been going through old papers, and found something from 1980. At that time, I was trying to get an independent consulting business going, under the name of Technical Industries Prediction Service (TIPS). The U.S. Department of Energy, had a "Small Grants Program, for Appropriate Energy Technology." I proposed a study of electric locomotives with batteries. At that time, there was concern about the petroleum supply. The application which I proposed to study was switch engines, either "yard goats" or for industrial plants. To quote from the proposal:

"Energy storage, it will be necessary to choose between commercially available storage batteries (lead acid, nickel-cadmium or nickel-iron) or battery systems presently under development (sodium-sulfur, zinc-air, and zinc-bromine). Particular attention will be paid to the zinc-bromine battery, since their major disadvantage, a high rate of self-discharge, may not be critical in the battery switch engine application. On the other hand, a low energy density (watt-hours per pound) may not be a disadvantage either since a high minimum weight is required for traction purpose.

By using a shunt-wound motor with separate field control, it is easy to incorporate regenerative braking to recharge the batteries. ... An AC induction motor eliminates the commutator and brushes, but it requires a considerably more complex control unit. Engineering tradeoffs on the alternatives are part of the proposed concept development."

"An operational analysis will be performed as a prior step to equipment engineering. Typical operation cycle for locomotives will be analyzed to determine design values for traction requirements, proportion of time moving under electrified wire, time and distance not under wire, potential for energy saving by regenerative braking, speed and acceleration requirements, space require for operating crews, effect of grades, etc."

We did not get that grant, and the study probably still needs to be done. It was nice to be an advanced thinker some 35 years ago.

The College of New Jersey Hosts
 The 40th Anniversary of
 THE ORIGINAL PERSONAL COMPUTER SHOW

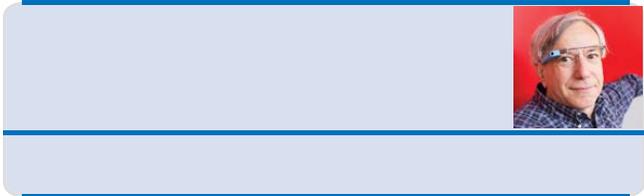
Trenton Computer Festival™



Technology Journalist
 and Award-winning
 Writer,
 Wearable Tech Insider,
 speaks on



**Admission: \$10.00 (advance)
 \$12.00 at Gate**
Free Parking
www.tcf-nj.org



<p>INDOOR FLEA MARKET & VENDOR FAIR 50+ Talks, Workshops, Tutorials, Demos and Special Events! Object-Oriented Programming University: One Day of Short Courses by Mike Redlich Microsoft Presentations and Special Workshop on "Safe Computing" Quadcopter and 3D Printer Demos Tour the Sarnoff Museum of Tech.</p>	<p>MULTIMEDIA, SECURITY, WEARABLE TECHNOLOGY, PHOTOGRAPHY, HOME CONTROL, HISTORIC COMPUTERS and WIFI Ham Cram Session & Exam: Get an Amateur Radio License in one day at TCF! Cram begins at 9 am Arduino Developer/User Tutorial/Workshop</p>
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IEEE/ACM IT PROFESSIONAL CONFERENCE
Friday March 20, 2015, 8:30 am — 5:00pm**
 Continuing as part of TCF's Saturday Talks.
For Conference Info and Fees See
<http://princetonacm.acm.org/tcfpro/>

For additional TCF'15 info, directions and advance tickets:
www.tcf-nj.org

DOOR PRIZES

IEEE Integrated STEM Education Conference (ISEC)**
 Saturday, March 7 – 8:00 am — 5:00 pm
 at Friend Center, Princeton University, NJ
 Creating a Culture of Achievement
 Info: <http://ewh.ieee.org/conf/stem/>

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

2015 - r e v i s o n a



Meeting of the Philadelphia Joint Chapter



IEEE Power & Energy and Industry Applications Societies

Topic: Bifuel Generators and Their Applications

Speaker: John Sharpe, Power Solutions Manager, Generac

Date and Time: Thursday, February 19th, 2015
Lunch @ 11:45 a.m.; Presentation: 12:00 – 1:15 p.m.

Cost: No Charge for Presentation
\$13 for lunch (\$10 for Full-Time Students)

Location: Burns Engineering
1835 Market Street, Suite 300, Philadelphia, PA 19103

Public Transportation: SEPTA (Rail to 30th Street Station and/or Trolley to 19th & Market Streets)

Reservations: Register by visiting: www.ieeephiladelphia.org and click on “Section Meetings and Events” to register on v-Tools. If you have problems or cannot register online, e-mail or call Jonathan Schimpf at jschimpf@burns-group.com or 215-979-7700, ext 7709, by 5:00 p.m., Wednesday, February 18th, 2015 (Specify if you want lunch – We pay in advance)

Abstract: Bifuel - The simultaneous combustion of both diesel and natural gas. Bifuel offers four major benefits: 1. Reduce diesel fuel storage (diesel fuel that is stored for a long period of time runs the risk of spoiling if not maintained, in addition to spillage and odor concerns). 2. On-site fuel (applications requiring an on-site fuel can take advantage knowing the bifuel is a diesel block by nature and can operate on 100% diesel should no natural gas be available). 3. Making natural gas a real option (traditional large to midrange natural gas generators offer unrealistic choices in today’s market due to unacceptable price points). 4. Reduce exhaust emissions (Bifuel generators emit about 30% less nitrogen oxides and 50% less particulate matter than comparable diesel only units).

The Speaker: John Sharpe joined Generac in 2012 and is the Power Solutions Manager for Eastern US. John is a 1991 graduate of Virginia Tech with a BS in Industrial and Systems Engineering. He spent the next 20 years of his career working in the Caterpillar dealer network in Virginia, North Carolina, and Arizona. With power generation as the basis for his work, John has filled many roles within the dealerships including Service, Sales, Operations and Rental Management. He’s also a Cat certified Six Sigma Black Belt for process improvement.

***** A Certificate of Attendance will be available upon request *****

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Check out our website: <https://sites.google.com/site/ieeepesiasphiladelphiachapter/>
IEEE Philadelphia Section website: www.ieeephiladelphia.org

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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 10, 2015.

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

IEEEmadC [Student Contest]

IEEEmadC (Mobile Applications Development Contest) is a new international contest organized for all IEEE student members across the globe. The main goal of the IEEEmadC is to provide additional competitive activities for students in the scope of computer science. By competing, students will focus on developing their technical, social and team skills. IEEEmadC is organized in four main stages (Education, Idea, Development and Judging stage) within six months from November 2014 until April 2015. Teams of up to three students are invited to devise and develop mobile applications that could contribute to the IEEE community or apply technology for humanity. We invite all students to participate in this contest and win attractive prizes. More info is available on our official web page: <http://ieemadc.org/> or Facebook page <https://www.facebook.com/IEEEmadC>.

What's IEEEmadC say you?

Hi there! [IEEEmadC](#) is a new competition tailored for IEEE students exclusively. And even more, it's worldwide! Not amazed yet? There are cash and smartphone prizes! Still nothing? How about recognition as being among the best of the top engineers in the world? Now that should reckon I hope :). So...my name is Luka and I would like to introduce you to IEEEmadC and hopefully intrigue you to be a part of it.

Mad but not crazy - hear our story!

IEEEmadC is only two years old but we are already gaining huge traction in the IEEE community. Last year, the competition was organized for Region 8 (Europe, Middle East and Africa) only. Given its success, we have decided to invite all the other regions to compete this year. First iteration of IEEEmadC featured [28 applications submitted](#) and the [winner application](#) was developed to provide mobile access to MyIEEE portal.

What distinguishes IEEEmadC from other competition of this sort are its target audience and areas of application development.

Only IEEE student members are eligible to compete in this competition. We recognized that competitive events are not that often in IEEE so we wanted to try with our own :). Main motivation for this was seeing the traction [IEEEExtreme](#) was getting while also seeing ourselves being extremely enthusiastic about being part of it.

Since IEEEemadC is contest for IEEE students, we require students to focus on the things that IEEE stands for – Advancing Technology for Humanity. Therefore, the application focus areas are mostly technological, humanitarian or scientific. Having these focus areas yielded great results in the first iteration of the competition and we are hoping to have even better and more interesting applications developed this year :).

You can read up on details on our [rules page](#).

The competition itself is divided into two phases. In first phase (Idea stage) we are spreading the word, educating students about mobile development and accepting ideas. This stage will end on the 1st March 2015, so make sure to submit your idea by then. You can register and submit your idea [here](#)

As we collect ideas, we are constantly approving them and making sure applicants know that their idea is in compliance with our rules. Development stage follows Idea stage and it will last till the 1st April 2015.

Is IEEEemadC for you?

Shortly put – Yes.

- *You are a student but no member of IEEE?* It takes about 15 minutes to join.
- *You are a member of IEEE but no longer a student?* Competing is not the only way to be part of this competition. You can mentor a team, organize lectures and motivate your students to compete.
- *You don't know much about mobile development?* There's a ton of materials to learn from. Investment costs are next to zero and the demand for mobile development skills continues to surge. If you are still in doubt, go check our [Facebook page](#) to see what are we doing and what can you gain from competing.

Let's wrap it up

So, you are interested in mobile technologies? You have a great idea which could be implemented as mobile application? Or maybe your local IEEE community could use a more streamlined communication option? You want to contribute to IEEE's main moto – Advancing Technology for Humanity? Last but not least, you would like to be recognized as being among the best of the best in a WORLDWIDE competition of top engineering students? If any of the former applies for you, then wait no longer and [apply](#) – registrations are still open :)!

Signal Processing Symposium Report

By Joseph Picone

The IEEE Signal Processing in Medicine and Biology Symposium was held Saturday, December 13, 2014 at Howard Gittis Student Center, Temple University.

Signal processing plays a vital role in applications ranging from simple measurement equipment to sophisticated devices such as prosthetics. IEEE SPMB14 was a regional symposium intended to provide a highly interactive forum where bioengineering and signal processing researchers can collaborate on emerging trends in signal processing. The symposium had two plenary talks, two oral sessions and two poster sessions.

We ended up with 45 paid registrants and about 60 participants counting staff, speakers, etc. People liked the facility and seemed to enjoy the conference. We are beginning to organize the next one and should have more universities involved. Hopefully we can get attendance up.

A file of 45 pictures can be accessed at

<http://www.ieeespmb.org/2014/pictures>

Type in for user name and password this code twice (ieee_spmb_2014).

Support our awardees of Delaware Valley Engineers Week.

We told you previously that **Adam Fontecchio, Ph.D.** will be the 2015 Delaware Valley Engineer of the Year. We just found out that **Peter Silverberg, P.E.** will be receiving the award for Outstanding Service to the Community. Members of the section are invited to attend the events supporting our exposure to the wider engineering community. Here is a summary:

2015 Awards Luncheon

Friday, February 20, 2015

DoubleTree Hotel Philadelphia

Broad Street and Locust Street, Philadelphia, PA

11 am – 12 noon: Student paper poster session and reception and cash bar

12 noon – 2 pm: Luncheon and Awards

Adam Fontecchio, the 2015 Delaware Valley Engineer of the Year, will be formally introduced. Dr. Fontecchio and the 2015 Young Engineer of the Year, Brian Crookston, will make brief remarks and kick off the celebration of Engineers Week in the Delaware Valley. Once again, we will recognize award recipients who have been honored the past year by the various engineering and technical societies. The Awards PowerPoint and program will recognize the member of the year / project of the year, etc. award recipients from those societies who have submitted the Affiliate Award Recognition Form.

Engineers Week proclamations will be on display as well.

Price:

\$65.00 for reservations by Friday, February 13

\$75.00 reservations after Friday, February 13

\$40.00 Government reservations by Friday, February 13

\$50.00 Government reservations after Friday, February 13

Reservations after February 13 subject to availability. Due to commitments with meeting facilities for food quantities, payment will be expected for all reservations, regardless of attendance, unless cancelled two days in advance. No tickets will be issued for this event.

Menu Options:

Grilled salmon with cabernet rice, tomato olive caper salsa

Grilled fennel chicken breast on a bed of sauteed spinach, fresh basil tomato sauce with garlic mashed potatoes

Mushroom strudel wrapped in phyllo, garlic spinach, goat cheese, red pepper coulis (vegetarian)

Reservations

Online: <http://register.engrclub.org>

Email: reservations@engrclub.org

Phone: 215-985-5703

Delaware Valley Engineers Week, 215 S. 16th Street, Suite 16, Philadelphia, PA 19102

Call 215-985-5703 or email reservations@engrclub.org with any questions.

Directions and Parking:

The Luncheon will be in the Ormandy Ballroom on the ground floor of the south annex of the hotel. The entrance to the ballroom is on Broad Street, south of the entrance to the parking garage; access is not available from the hotel lobby.

Discounted parking for \$12 (cash only) will be available for those parking in the hotel parking garage; be sure to request a validation sticker at the registration desk. The hotel ATM has higher than normal fees.

Celebration of Engineering Reception

The concluding event of Delaware Valley Engineers Week is the Celebration of Engineering Reception. It is an evening of socializing and honoring this year's major award recipients.

This social/networking event to celebrate engineering includes:

- Cocktails, heavy appetizer stations, and dessert stations
- Award recipients will be honored with posters, exhibits and running PowerPoint presentations in the networking area.
- Future City Competition Regional winners will display their first place model.
- The Engineer of the Year and Young Engineer of the Year will provide brief remarks, followed by a brief recognition of the Hall of Fame inductees and Outstanding Service Award Recipients, among which will be **Peter Silverberg** for Outstanding Service to the Community.

2015 Celebration of Engineering Reception

5pm, Thursday, February 26, 2015

Singh Center for Nanotechnology

University of Pennsylvania

3205 Walnut Street Philadelphia, PA

For pricing and reservations go to website <http://register.engrclub.org>

2015 Young Engineers Social

6 to 9 pm, Tuesday, February 24, 2015

Manayunk Brewery, 4120 Main Street, Philadelphia, PA 19127

We liked it so much last year, we are returning to Manayunk! You'll be able to meet and listen to the Young Engineer of the Year, enjoy heavy appetizers and network at the Manayunk Brewing Company. As always, you'll receive two drink tickets, which will be good for any of the beers the brewery brews on site, well drinks and wine. Its gets even better; we will be raffling off a few prizes, so join us for your chance to win!

We will recognize the 2015 Young Engineer of the Year, Brian Crookston. YEOY 2014 **Phil Gonski** will be there to pass the baton.

We will have our own private entrance so use the stairs to the right of the "Manayunk Brewing Company" arch on Main Street.

Free parking is available and the Brewery is easily accessible from I-76 and via SEPTA.

Reservations at website <http://register.engrclub.org>

\$30.00 For Reservations by Friday, February 13

\$35.00 after Friday, February 13 (subject to availability)

Due to commitments for food quantities, payment will be expected for all reservations, regardless of attendance, unless cancelled two days in advance.

No tickets will be issued for this event.