GPAEE Newsletter

Fostering action through education, innovation and networking to promote the priorities of Philadelphia-area Energy Professionals



Greater Philadelphia Chapter of the Association of Energy Engineers

December 2017

The Greater Philadelphia
Association of Energy Engineers

cordially invites you to our

ANNUAL HOLIDAY PARTY

Thursday, December 14, 2017

5:30 p.m. to 9:00 p.m.

Fairmont Rowing Association #2 Kelly Drive Philadelphia, PA 19130

\$85.00 for Members & Non Members \$90.00 for Non-Registered Attendees \$50.00 for Student/Unemployed

The evening will include open bar, a delicious hot buffet style dinner including salad and dessert, door prizes, 50/50 raffle and a celebration of the spirit of the season with colleagues and friends.

For additional information, contact Judi Subers

Click Here to Register



Date	Time	Place	Topic
1/11/18	11:30 am	Pyramid Club, Philadelphia, PA	LNG Applications
2/21/18	11:30 am	University of Pennsylvania	Kleinman Center, CHP Mod 7 Plant, UPENN
3/22/18	11:30 am	Wilmington, DE	ASME, GM Presentation
4/19/18	11:30 am	Belmont Ave, Philadelphia, PA	Tour of Simpson House, CHP Unit
5/17/18	8:30 am	Philadelphia Zoo	Tour of Philadelphia Zoo
6/21/18	5:30 pm	To Be Determined	Season Closer

Remembering Bill Stewart

William "Bill" Thomas Stewart, 82 of Media, Middletown Township, passed away peacefully at his home on Monday September 18, 2017. While a few of the Board Members have been around long enough to have had the pleasure of working with Bill in the past, most of our current membership has not. So the GPAEE thought it would be helpful to provide some insight into Bill, his association with GPAEE and some other general information, as he should be remembered and not forgotten.

Bill always greeted you with an enthusiastic handshake and smile. He was the longest serving board member in the history of GPAEE, and is a member of the national AEE Hall of Fame. Many years ago when we were a much smaller association, and had issues with cash flow, and attracting people to meetings, Bill was instrumental in keeping the GPAEE chapter afloat during these and other challenging times.

As for some background, Bill was born in Greensboro, NC, and honorably served in the US Army, as well as being a proud graduate of North Carolina State University with a degree in Mechanical Engineering. He was the charter President of the Greater Philadelphia Association of Energy Engineers, and was an elder with the Middletown Presbyterian Church.

Click <u>here</u> to view Bill's Obituary, if you would like to review it. GPAEE made a contribution to the Middletown Presbyterian Church in his honor.

In honor of Bill, the GPAEE will be naming one of its annual student scholarships

"The William T Stewart Scholarship".



Commodity Highlights

WTI crude oil futures price 12/1/2017: \$58.36/barrel Down \$0.59 from week earlier Up \$7.30 from year earlier

Natural gas futures price 12/1/2017: \$3.061/MMBtu Up \$0.248 from week earlier Down \$0.444 from year earlier

Weekly coal production
11/25/2017: 14.068 million tons
Down 0.838 million tons from week earlier
Down 2.269 million tons from year earlier

Natural gas inventories
11/24/2017: 3,693 Bcf
Down 33 Bcf from week earlier
Down 309 Bcf from year earlier

Crude oil inventories

11/24/2017: **453.7 million barrels**Down 3.4 million barrels from week earlier
Down 34.4 million barrels from year earlier

Source: http://www.eia.gov/

Wanna Get Away?? Upcoming Energy Events

Solar Power Northeast

February 5-6, 2018
Westin Boston Waterfront Hotel
Boston, MA

Globalcon 2018

March 21-22, 2018

Hynes Convention Center Auditorium and Hall C, Boston, MA

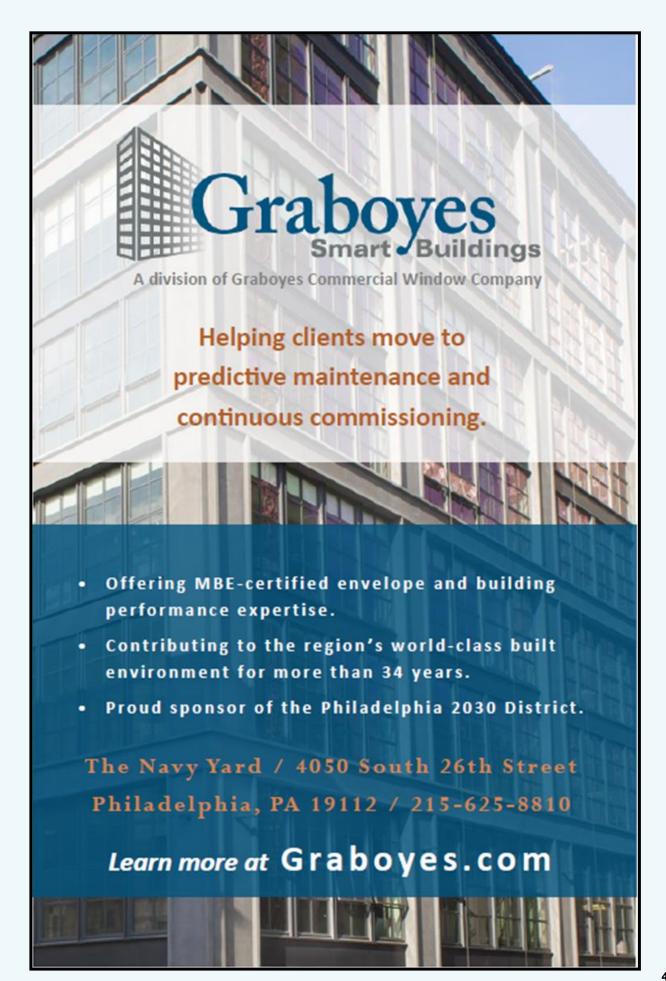
Energy Management Congress

June 20-21, 2018
Washington State Convention Center
Seattle, WA

ASME Power & Energy Conference

CONFERENCE: June 24-28, 2018

EXHIBITION: June 25-27, 2018
Disney's Contemporary Resort
Lake Buena Vista, FL



Employment Initiative

The economy is improving; however, many of our business are facing hard times. We invite our members and Sponsor companies to join the GPAEE Board in our Employment Initiative. To help our fellow energy professionals, the GPAEE offers the following assistance for unemployed energy professionals:

- 1. Reduced fees for most monthly meetings. When registering for meetings, register under student and unemployed rate of \$5 for the specified meeting.
- 2. Unemployed members can post a free energy Position Wanted ad for 3 months in our newsletter which currently reaches over 1,000 people.
- Free Job Ad on our newsletter Energy Job Board for GPAEE Sponsor companies and employers. Recruiters are invited to post jobs for the normal advertisement fee or on our website at no cost.
- 4. Companies with openings are invited to announce them at our monthly meetings.

To post an ad in the newsletter, send a brief description with URL link and contact information to our newsletter editor,

Tara Pasca at:

newsletter@gpaee.org.
Ads are free except those solicited by professional employment agencies.

Position Wanted - Michael Mandzik, MSEM, CEP

Seasoned Energy Professional looking to provide energy management services for a business or institution requiring direction and advice on how to reduce energy expenditures and improve its environmental footprint. Michael's professional capabilities range from business development and account management, to energy procurement and fuels market fundamentals analysis, to corporate strategy. He has worked for energy consultancies, electric & gas utility companies, unregulated energy marketing companies, regulated commodity exchanges, and several large manufacturers. Contact info: (m) 973-907-6018, (e) mmjrmandzik@gmail.com.

Position Wanted - David Stevens

Mechanical engineer with 4 years' design and project management experience in the renewable power and refining industries. Seeking job opportunities in the Greater Philadelphia Area and would love to continue working in the energy sector. Particularly interested in consulting, project and field roles in power, oil & gas, renewables, and energy efficiency.

I can be contacted on my mobile (484) 455-4183 or at <u>dwstevens12@gmail.com</u>

Position Wanted - Julien Sherwood

Graduating Senior looking for an entry-level position in the energy field.

Experience in policy and grant research. Currently
interning at a company working on gen-sets for biogas applications. Work includes target market research and trade show planning.

Graduating in May 2018 with a degree in Applied Public Policy from West Chester University.

Please contact Julien Sherwood at (267) 671-2214 or juliensherwood@gmail.com.

Position Wanted - Daniel Galante

Recent graduate of Penn State University with a Bachelors of Science in Mechanical Engineering Technology. Additional academic background in Mechanical Engineering, Environmental Systems Engineering and Environmental Resource Management. Looking to expand his career in mechanical and engineering design with interest in various industries including: renewable energy systems, power systems, automotive and manufacturing. Experienced with AutoCAD, SolidWorks, ANSYS software, Microsoft suite, and machine element design. Hands-on experience working with drills, mills, lathes, and CNC programming. Seeking a full-time position in a fast-paced and growing field where he can contribute to the successful and profitable operation of the firm.

Please contact Daniel Galante at dangint2@gmail.com or 215-917-1562 for more information.



SOUTH JERSEY INDUSTRIES

South Jersey Energy Solutions is seeking eager individuals, ready to build relationships, cultivate sales, and network with established organizations in several territories. We are looking for people in Maryland (DC & Baltimore), Massachusetts (Worcester & Boston), Pennsylvania (Hershey and Dubois) and Northern New Jersey. Our Account Managers promote the sale of natural gas, electric, and other energy services to commercial and industrial customers within identified markets, while in-creasing their commissions.

We also have a Power Trader position opening who will be responsible for researching, analyzing, proposing and implementing whole-sale purchasing strategies, and follow through with associated contracts.

And we have a Natural Gas Scheduler position available who coordinates the receipt and delivery of gas between suppliers, producers, marketers, pipelines and customers and ensures that company volumes are accurately tracked and invoiced.

Please apply on our Career Site, https://sjindustries.wd1.myworkdayjobs.com/SJI

Concord Engineering

Senior Electrical Engineer

Concord Engineering is seeking a Senior Electrical Engineer experienced in High Voltage Substation and MV Distribution systems engineering and design. Experience with Traction Substation will be plus for this position. In this position, the candidate will utilize his/her experience and expertise to execute projects with proven problem solving skills, develop and execute objectives for self and others, and have the ability to effect short-term and long-term business goals. Concord Engineering Group is a rapidly growing dynamic company offering excellent benefits and compensation packages commensurate with experience.

Electrical Engineer

Concord Engineering is seeking an Electrical Engineer experienced in design of power and industrial facilities including combined heat and power plants and central utility plants. Knowledge of PLC based controls and field instrumentation will be plus for this position. In this position, the candidate will utilize his/her experience and expertise to work independently on fast track projects with minimum input from senior engineers and project managers. Concord Engineering Group is a rapidly growing dynamic company offering excellent benefits and compensation packages commensurate with experience.

For more information on the positions above, please contact Dilip De dilipde@concord-engineering.com

Drexel University

Drexel University is looking to hire a Project Engineer, with a background in mechanical engineering. Requisition number is 8507.

https://www.drexeljobs.com/applicants/jsp/shared/frameset/Frameset.jsp?time=1499456869243

A Blueprint for Energy-Efficient Construction

Property developers are turning to <u>PECO</u> to implement high-efficiency building upgrades into their new construction designs. Whole-building approaches, combined with proven energy-saving equipment, can increase property value, improve occupant retention and lower maintenance costs for a wide range of new construction projects.

To help achieve the benefits of more energy-efficient new construction, PECO offers incentives for building ENERGY STAR^a certified homes and high-performance (beyond code) properties, and for the installation of energy-efficient equipment. Whether single-family or multifamily, residential or commercial, all property types can qualify for incentives.

Benefits of Developing Green Properties

Commercial properties that receive Leadership in Energy and Environmental Design (LEED) certification often <u>set the competitive</u> <u>price scale for the real estate market</u>. Rental prices per square foot are 4% higher, and tenant retention rates are improved, with increases in occupancy rates of <u>nearly 10%</u>.

According to the U.S. Green Building Council, developers who make upfront investments to construct more energy-efficient properties receive, on average, a 4% increase in property value. Plus, LEED-certified buildings report almost 20% lower maintenance costs than typical commercial buildings. The financial opportunities of energy efficiency, coupled with incentives from PECO, give new meaning to the concept of "green buildings."

Market demand for energy-efficient properties is on the rise for residential as well as commercial properties. Builders of ENERGY STAR or Home Energy Rating System (HERS)-certified properties create better year-round comfort, often resulting in fewer callbacks. Higher-quality equipment and energy savings can also result in greater sale value. A survey of potential homebuyers within the PECO territory found more than 70% are likely to pay more for a high-performance home.

Architects who wish to showcase their knowledge of building science best practices, energy efficiency skills and PECO incentives can be listed on the PECO Smart Ideas for Your Business Contractor Database.

To gain access to additional energy efficiency trainings, exclusive networking events and a dedicated PECO Smart Ideas Outreach Manager, commercial architects are encouraged to join the PECO Smart Ideas Trade Ally Program, Learn more

Incentives for Energy-Efficient Construction

Residentially metered properties qualify for a maximum of \$1,750 per unit for ENERGY STAR certified single-family or multifamily homes. Builders who do not meet ENERGY STAR certification can still receive up to \$750 per unit for homes that are at least 30% more energy efficient than current codes and federal standards require, as documented by a HERS Index score.

Developers of commercially metered properties can receive a maximum of \$0.70 per square foot for taking a whole-building systems approach to integrated energy-efficient design. Incentives are offered in tiers for whole-building designs, beginning with energy efficiency achievements greater than 10% performance over code.

Alternatively, incentives are available on a per-unit basis for commercial developers who install high-efficiency heating, ventilation and air conditioning (HVAC) equipment as well as exterior or interior lighting upgrades.

Interior lighting incentives are calculated by illuminated space, with a maximum of \$0.21 per square foot for upgrades. Incentive are offered in tiers beginning with energy efficiencies at least 10% over code. Additional incentives are offered for interior occupancy sensors and daylight dimming systems.

Exterior lighting incentives are calculated at \$0.05 per kWh saved for properties achieving lighting power efficiencies at least 10% better than code. Likewise, additional incentives are available for occupancy sensors and other control systems.

HVAC equipment incentives include \$30 per ton for ENERGY STAR ductless mini-split heat pumps, \$25 per ton for energy management systems and \$25 per ton for demand-controlled ventilation, plus other control measures.

Questions on how a project can qualify for incentives or how to join the Trade Ally Program can be directed to:

PECO New Home Rebates (Residential)

adieck@psdconsulting.com (484) 684-5419

peco.com/NewHomeRebates

PECO Smart Ideas for Your Business

pecosmartideas@dnvql.com

1-844-4BIZ-SAVE

peco.com/biz

Comprehensive 5-Day Training Program for Energy Managers Prep for Certified Energy Manager (CEM) Certification



The Greater Philadelphia Association of Energy Engineers (GPAEE) has partnered with the Association of Energy Engineers (AEE) to host Certified Energy Manager (CEM) training. Since its inception in 1981, the Certified Energy Manager credential has become widely accepted as a measure of professional accomplishment within the energy management field.

This training seminar offers you a great value compared to similar programs across the Northeast and is the only CEM prep training scheduled in the Greater Philadelphia area in 2018.

The registration fee for the seminar includes:

- Cost of the CEM application
- Four days of instruction
- Four-hour written, open-book exam
- Textbook and workbook
- Continental breakfast and lunch each day of training
- Free parking
- A \$250 savings compared to nationally advertised training.
- Discounted hotel rooms available nearby.



Limited seats are available for this training seminar so reserve your spot soon! **Register at WWW.GPAEE.ORG!**

For more information about CEM Training and the complete class schedule, please contact Steve Beck at 610-816-8097 or sbeck9@msn.com.



Where:

Chester County Economic
Development Council
(CCEDC)

Eagleview Corporate
Center

737 Constitution Drive, Exton, PA 19341 Less than 1 mile from PA Tpk



When:

June 18-22, 2018 8:00 AM - 5:00 PM

Cost:

\$2,145/attendee

This represents a \$250 savings compared to national training seminars and includes the extra cost of the certification exam plus breakfast & lunch.





It's that time of year again. The school year is off to a great start for the Future City Competition. To date, 46 schools have signed up and have started designing their cities of the future. A lot of them are new to the program. Last year at this time we had 40 schools registered. Looks like we are going to need as many volunteers as we can get!

Our greatest need right now is for mentors. Each school is assigned a mentor to work with the students and share their real world experiences to help them develop their future city. Just 1 or 2 hours a week can make a big difference in how students approach their project and how they start to address it. The following is a the current list of schools that need mentors:

- East Norriton Middle School Norristown, PA
 - Esperanza Philadelphia, PA
- Hedgepeth Williams Middle School -- Trenton, NJ
 - Keith Valley Middle School -- Horsham, PA
- Mother Teresa Regional Catholic -- King of Prussia, PA
 - Murray Avenue School -- Huntingdon Valley, PA
 - Resurrection Catholic School -- Cherry Hill, NJ
 - Sacred Heart School -- Havertown, PA
 - Southern Lehigh Middle School Center Valley, PA
 - St Albert the Great School Huntington Valley, PA
 - St Elizabeth Parish School -- Uwchlan, PA
 - WCPA Homeschool Group -- Pleasant Mount, PA
 - Windsor Christian Academy Uwchlan, PA

Please visit our website at www.futurecityphilly.org and "Click here to sign up as a Volunteer" on the top left of the page. There you can register to be a mentor, judge, or general volunteer. We will need judges and general volunteers for the day of the competition, which will be in January.

Any questions please contact me via e-mail or phone. Please feel free to forward this e-mail to your friends, coworkers, and technical society members.

> Karen R. McManuels, PE Philadelphia Regional Volunteer Coordinator



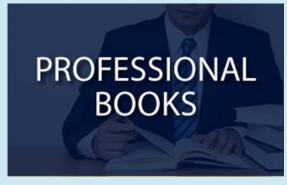
AEE's Resource Site for Training, Professional Books & Industry Events



<u>AEE seminars</u> offers a broad spectrum of energy management, building efficiency, and facility optimization courses. Seminars serve as official preparatory courses for AEE professional certification programs. Seminars are scheduled live in cities throughout the U.S., real-time online with anywhere access, and On Demand with anytime access. We can also bring a course to you at your location worldwide. AEE seminars is the official course provider for the U.S. Military globally. Attendees earn CEUs, AEE Re-certification and PDH credits.



Each year the Association of Energy Engineers (AEE) presents an exciting line-up of <u>conferences and trade show events</u> for energy and facility professionals. The programs provide an excellent opportunity to find out about the issues and marketplace developments that impact your decisions. As an attendee, you can see first-hand the latest technologies and solutions while you network with your industry colleagues. As an exhibitor, you can showcase your products & services to decison-makers.



Browse a cross-section of <u>professional reference publications</u> covering energy engineering, energy management, sustainability, alternative energy, power generation, HVAC, lighting, electrical systems, sustainability carbon reduction, energy procurement, facility management, maintenance, water efficiency and more. EBOOKs are available through <u>EnergyVortex</u>, Apple, B&N, and Amazon.

The Association of Energy Engineers / AEE is a membership organization of over 17,000 professionals involved in all areas of the energy field. For more details on the full scope of AEE's programs and activities, as well as information on how to become a member of AEE, visit the Association's official web site home page at www.aeecenter.org.

GPAEE Chapter Board Officers & Board at Large

Board Position	Officer Name	Organization
President	Bill Oppenheim	Schneider Electric
Treasurer	Jon Wohl	DCO Energy
Board Member	Steve Beck	<u>Doosan Fuel Cell America</u>
Membership	Monica Bersani	<u>Philadelphia Gas Works</u>
Awards	Glenn Murphy	<u>PECO</u>
Vice President/Newsletter Editor	Tara Pasca	Concord Engineering
Website	Michael Walton	Burns Engineering
Education	Helen Silvis	<u>Veolia</u>
Employment Initiative	Jim Clark	<u>Clark Energy</u>
Secretary	Phil Coleman	Lawrence Berkeley National Laboratory
Past President	Christine Batchelor	<u>Limbach, Inc.</u>
Events Coordinator	Judi Subers	South Jersey Energy

Support the GPAEE!

GPAEE has served the Philadelphia area energy community for over 30 years. During that time we have maintained our goal of keeping energy professionals up to date on the latest energy issues and innovations. *But we can't do it without YOU!* GPAEE is a volunteer non-profit organization. We rely on members & sponsors to underwrite our efforts. Therefore, in order to continue to provide the same high-quality energy education expected of us, GPAEE is seeking your Corporate Support. Each month, GPAEE's award winning Newsletter is read by over 1,000 energy professionals—engineers, facility & building managers, contractors and vendors. In addition, our monthly events are attended by 100+ energy professionals. In turn, your company can reach our professional audience via several corporate support options.

Corporate Support Option	Details
Corporate Membership \$150.00 (includes 5 people, each additional person is \$30)	 5 Individual annual memberships - a \$175 value Listing in the National Newsletter
Newsletter Advertisement	 1/4 page - \$50.00 per issue or \$100 per year 1/2 Page - \$75.00 per issue or \$200 per year
Event Sponsorships	 Corporate profile in Meeting Announcement & and Newsletter Full Page Ad in Newsletter of choice

Thank You

Corporate Members!

- Burns Engineering
- Commercial Utility
 Consultants
- Concord Engineering Group
- Constellation, an Exelon Company
- Core Power, Inc
- EcoSave, Inc
- ECCO/GREGORY Inc.
- The Efficiency Network
- Engie Energy
- Greentech Energy Services
- Graboyes Commercial
 Window Co
- HMI Technical Solutions
- Hutchinson Mechanical Services
- Klenzoid Inc.
- Opterra Energy Services
- PECC
- Penn Power Systems
- Peterson Service Co.
- Philadelphia Gas Works
- Precis Engineering
- Provident Energy Consulting, LLC
- PWI Engineering
- Ross Mechanical Group
- South Jersey Energy Solutions
- Swagelok Penn
- T&M Associates
- UGI Energy Services
- Veolia Energy Philadelphia

Welcome New Members!

Jack Ensor, WGL Energy

Nicholas Beale, Temple University

Philip McManus, Tri-State Light & Energy

About AEE National

The Association of Energy Engineers (AEE) is a non-profit professional society of 16,000 members in 89 countries. The mission of AEE is "to promote scientific and educational interests of those engaged in the energy industry and to foster action for Sustainable Development ." AEE's network of 82 local chapters meet regularly to discuss regional issues. AEE's roster of corporate members is a variable "who's who" from the commercial, industrial, institutional, governmental, energy services & Utility sectors.

AEE offers a full array of informational outreach programs including seminars, conferences, journals, books and certification programs.

The AEE Energy, Facility, Power News is a high quality online newsletter that focuses on the accomplishment of the Association and its members. AEE also publishes three technical journals: Energy Engineering, Strategic Planning for Energy & the Environment, and Cogeneration & Distributed Generation Journal. Distributed Energy focuses on the advantages if diversifying your energy portfolio with onsite power and distributed generation in order to efficiently increase the security and stability of your power systems. Sustainable Facility, a new publication from the publishers of Energy & Power Management magazine replaces the former publication to AEE members. These publications are complimentary to all AEE members.

Additional benefits include continuing education & book discounts, invitations to industry surveys, job referrals, and special member discounts.

The become an AEE National Member, please click here:



Receive a 50% discount on National Membership by entering

"Chapter 50"



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