

## November 2017 Meeting

### Focus on: The Philadelphia Energy Campaign & The Municipal Energy Master Plan

#### The Philadelphia Energy Campaign

The Campaign is a bold, neighborhood-driven plan to invest \$1 billion in energy efficiency and clean energy over the next 10 years, leveraging both public and private dollars. We are creating scalable pilots to develop program models that work, bringing on key partners, and then will implement initiatives in each sector at scale to create real, lasting impact for Philadelphia and its citizens. The Energy Campaign is focused on four key sectors: Municipal Buildings, K-12 Public Schools, Low and Moderate Income Residential Housing, and Small Business.

Emily Shapira, Executive Director of the Philadelphia Energy Authority will be presenting.

#### The Municipal Energy Master Plan

The City of Philadelphia is committed to reducing carbon pollution, which is the biggest contributor to climate change. City buildings, facility operations, and their energy use present significant opportunities to reduce carbon pollution. The Municipal Energy Master Plan provides a roadmap of how Philadelphia's city government will lead by example on mitigating the causes of climate change by reducing energy use and costs, making operations more efficient, and advancing environmental stewardship.

Executing the strategies in this plan will reduce the causes of climate change, lower energy costs, create jobs, and improve air quality. The City's energy investments will aim to expand economic opportunities for Philadelphians by prioritizing local business growth and creating opportunities for disadvantaged business enterprises. This will produce a local and diverse workforce for City energy projects. By investing in Philadelphia's businesses and helping to create more jobs for Philadelphians, this plan will have benefits beyond pollution reduction and cost savings.

Adam Agalloco, Energy Manager City of Philadelphia, will be presenting.

Date: November 16, 2017  
Time: 11:30 a.m.: Registration  
12:00 p.m.: Lunch & Presentation Begins  
Location: [Museum of The American Revolution](#)  
101 S. 3rd St.  
Philadelphia, PA 19106  
Cost: Members: \$45.00  
Non-Members: \$55.00  
Students/Unemployed: \$5.00

Registration: Click [here](#) and follow prompts for registration

For more information, please contact: [Judi Subers](#)

## November Meeting Sponsors!!

Thank you from the GPAEE to our November Meeting Sponsors



DCM is a Camden-based Minority Owned, 8(a) and HUBZone certified firm specializing in high performance engineering design. We're not just an architecture and engineering firm, and we're more than a general contractor.



Limbach Holdings, Inc., (NASDAQ: LMB) with revenue of \$447 million in 2016, is an integrated building systems provider – managing all components of mechanical, electrical, plumbing and control systems, from system design and construction through service and maintenance.



Graboyes Commercial Window Company is an MBE-certified US Top-50 glazing firm and a trusted leader in commercial / architectural window installation, having contributed to the diverse built environment of Greater Philadelphia and the surrounding region for more than thirty years. From our NACC-verified safety and quality control programs to our position as a preferred union employer and a specialist in commercial window replacement and architectural glazing, we excel at providing a seamlessly integrated window system solution under the direction of our own skilled management team. We also install interior glass office partitions, unitized and timber-frame curtainwall solutions, high-performance storefront solutions, and exterior and interior window coverings and controls. And with the addition of our Smart Buildings Division, we provide tools and expertise to apply critical intelligence about the operation of other important building systems, such as HVAC and lighting. We are certified as a Minority Business Enterprise (MBE) for Pennsylvania, Delaware, and New Jersey.



Promoting energy solutions through onsite distributed generation and combined heat and power plants resulting in lower energy costs and improved power reliability.

At E-Finity, we provide support in making your facilities environmentally friendly and efficient by providing you reliable onsite power when and where you need it!

We appreciate your continued support of the GPAEE!!

# CALENDAR OF EVENTS

| Date     | Time     | Place                          | Topic                                   |
|----------|----------|--------------------------------|---|
| 12/14/17 | 5:00 pm  | Fairmont Rowing Association    | Annual Holiday Party                    |
| 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                   |
| 5/17/18  | 8:30 am  | Philadelphia Zoo               | Tour of Philadelphia Zoo                |
| 6/21/18  | 5:30 pm  | Boathouse Row                  | Season Closer                           |



## Save the Date!

The GPAEE will be hosting a CEM Training Class that will run from June 18, 2018 – June 22, 2018 for all interested in taking the CEM Certification Class.

The Certified Energy Manager is an individual who optimizes the energy performance of a facility, building or industrial plant. The CEM® is a systems integrator for electrical, mechanical, process and building infrastructure, analyzing the optimum solutions to reduce energy consumption in a cost effective approach. CEM's are often team leaders and help to develop and implement their organizations' energy management strategies. CEM's have gained increased recognition within the energy industry and by companies looking to strengthen their competitive position by having a CEM on staff.

Chester County Economic Development Council (CCEDC)  
Eagleview Corporate Center  
737 Constitution Drive  
Exton, PA 19341

*(Located just off the Downingtown exit on the PA Turnpike.)*

**Become AEE Certified**

**Rise to the Top of the Energy Management Profession**



## **Commodity Highlights**

### **WTI crude oil futures price**

10/31/2017: **\$54.38/barrel**

Up \$1.91 from week earlier

Up \$7.52 from year earlier

### **Natural gas futures price**

10/31/2017: **\$2.896/MMBtu**

Down \$0.078 from week earlier

Down \$0.130 from year earlier

### **Retail gasoline price**

10/30/2017: **\$2.488/gal**

Up \$0.009 from week earlier

Up \$0.258 from year earlier

### **Crude oil inventories**

10/27/2017: **454.9 million barrels**

Down 2.4 million barrels from week earlier

Down 27.7 million barrels from year earlier

### **Weekly coal production**

10/21/2017: **14.927 million tons**

Up 0.003 million tons from week earlier

Down 0.199 million tons from year earlier

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

## **Wanna Get Away??** **Upcoming Energy Events**

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### **Solar Power Northeast**

**February 5-6, 2018**

Westin Boston Waterfront Hotel

Boston, MA

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### **Globalcon 2018**

**March 21-22, 2018**

Hynes Convention Center

Auditorium and Hall C, Boston, MA

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### **Energy Management Congress**

**June 20-21, 2018**

Washington State Convention Center

Seattle, WA

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### **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.
3. 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@gpae.org](mailto:newsletter@gpae.org).

Ads are free except those solicited by professional employment agencies.

## 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 increasing their commissions.

We also have a Power Trader position opening who will be responsible for researching, analyzing, proposing and implementing wholesale 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>

## 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 [dwstevens12@gmail.com](mailto:dwstevens12@gmail.com)

## 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](mailto: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](mailto:dangint2@gmail.com) or 215-917-1562 for more information.

## A Blueprint for Energy-Efficient Construction

Property developers are turning to [PECO](#) 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<sup>®</sup> 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 [set the competitive price scale for the real estate market](#). Rental prices per square foot are 4% higher, and tenant retention rates are improved, with increases in occupancy rates of [nearly 10%](#).

[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:

|  |  |
|--|--|
| <b><u>PECO New Home Rebates (Residential)</u></b>                      | <b><u>PECO Smart Ideas for Your Business</u></b>                       |
| <a href="mailto:adieck@psdconsulting.com">adieck@psdconsulting.com</a> | <a href="mailto:pecosmartideas@dnvql.com">pecosmartideas@dnvql.com</a> |
| (484) 684-5419   | 1-844-4BIZ-SAVE  |
| <a href="http://peco.com/NewHomeRebates">peco.com/NewHomeRebates</a>   | <a href="http://peco.com/biz">peco.com/biz</a>                         |

## 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 [here](#) 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".

# Waste-to-Energy WORKSHOP

December 1st, 2017 10am-2pm  
West Chester University

*Improving the Feasibility of Small-Scale Digesters & CHP*



**Free Event and Luncheon**

This workshop will focus on the emerging market of small-scale organic waste to energy and the newly developed products and technologies that can improve return on investment in various applications.



**Who Should Attend?**


- Farmers with Organic Waste
- Food Processors
- Wastewater Treatment Plant Operators
- Brewers
- Campus & Facility Managers
- Landfill Operators
- Sustainability Professionals
- Students and Academics



**Featured Speakers**

Dr. John Pisciotta of the **Pisciotta Lab** and Associate Professor Biology at **West Chester University** will present current developments in microbially-based platforms for bioremediation of waste streams into fuels and useful products.

Ken Smith, independent energy consultant and representative of modular digester manufacturer **SEaB Energy**, will discuss applications of micro-anaerobic digestion and CHP from food waste.



Dan Sodomsky, CEO, and Jill Santos, Marketing Director at **Duryea Technologies**, will describe the MODE Power System, a newly developed solution for small-scale biogas electricity generation and how the complexities of the waste-to-energy market influenced product development.

**RSVP at [wcuwastetoenergy.eventbrite.com](http://wcuwastetoenergy.eventbrite.com)**

**WCU**  
WEST CHESTER  
UNIVERSITY



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](http://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, co-workers, and technical society members.

Karen R. McManuels, PE  
Philadelphia Regional Volunteer Coordinator



# HI PUMP SYSTEMS OPTIMIZATION PROCESS LOWER PUMP ENERGY COSTS & IMPROVE RELIABILITY IN COMMERCIAL BUILDINGS

Attend the Pump Systems Optimization Course for Commercial Buildings  
hosted by R World Energy Solutions, Hydraulic Institute and NECO Systems

All commercial buildings include pumps as part of heating, cooling, chiller, water pressure boosting, and wastewater systems. These pump-based systems consume more than 35% of a building's energy.

This new Pump Systems Optimization Course for Commercial Buildings covers these vital areas:

- How smart pumping systems automatically take control of the pump, motors, and variable frequency drives that influence its operation
- How quadratic control curves can yield more than 25% energy savings at part-load over PPC Control Curve.
- How best efficiency staging changes individual pumps based on operating efficiency rather than motor speed.
- The evolution of traditional management control systems into distributed control decision-making platforms based on building information. Using integrated controls, facility managers can now monitor and operate pump-based systems in a more energy efficient manner.

Attendees will learn how to take a pumping system that operates at less than 60% capacity at 90% of the time or more and bring the system to best efficiency point, typically at 80% or more. When not optimized for best efficiency, commercial building pump systems drain profits, create higher operational costs, increased maintenance costs and shorten mean time between repairs. This course provides solutions, information and data about the pump systems optimization process that leads to greater energy efficiency, bottom-line savings and improved reliability.

## Alex Kramer, BSEE, MSSE



Mr. Kramer is President of NECO Systems, Inc., a systems integrator of pumping packages and controls for commercial, industrial, and municipal water and waste water facilities. The company has over 3400 installations and has been in business for more than 25 years. Mr. Kramer's experience includes design, engineering and service of pumping systems packages including Water Pressure Boosters, Heat Transfer, Geothermal Circulating, Fuel Oil Transfer, and Waste Water. Mr. Kramer received his bachelor's degree in Electric Engineering from the University of Delaware and Master's Degree in Systems Engineering from the University of Pennsylvania. Mr. Kramer is pump system assessment certified by the Hydraulic and collaborative instructor.



**ONLY  
\$129**  
RECEIVE  
7 PDH  
CREDITS

**Register now for the Pump Systems  
Optimization Course for Commercial  
Buildings - <http://estore.pumps.org>**

**DATE:** November 9, 2017

**TIME:** 8:00 am to 4:30 pm

**INSTRUCTOR:** Alex Kramer, President,  
NECO Systems

**PDH CREDITS:** 7 PDH Credits

**COURSE FEE:** \$129

**COURSE LOCATION:** Saint Joseph's University  
- Mandeville Hall - The Wolfington Teletorium,  
5600 City Ave Philadelphia, PA 19131.

Parking and the Mandeville Building is located  
right of 54th and City Avenue. (Parking and  
walkway is on 54th St.)

Contact Frank Fazio at [ffazio@rworldenergy.com](mailto:ffazio@rworldenergy.com)  
or Mark Sullivan at [msullivan@pumps.org](mailto:msullivan@pumps.org) or  
973-349-5329 with any questions.

This new course is recommended for Facility Managers, Energy Managers, Maintenance and Operation personnel across all commercial building services. Attendees receive a certificate of completion for the Hydraulic Institute and seven Professional Development Hours.

A banner with a dark blue background showing a view of Earth from space with a bright sun and a crescent moon. The text 'AEE's Resource Site for Training, Professional Books & Industry Events' is written in white, bold, sans-serif font.

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

A banner with a green background showing a group of people in business attire. The word 'SEMINARS' is written in large, white, sans-serif font.

## SEMINARS

LIVE ONLINE ON DEMAND

[AEE seminars](#) 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.

A banner with a blue background showing people at a trade show. The words 'TRADE SHOWS' are written in large, white, sans-serif font.

## TRADE SHOWS

GLOBALCON EMC WEEC

Each year the Association of Energy Engineers (AEE) presents an exciting line-up of [conferences and trade show events](#) 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 decision-makers.

A banner with a dark blue background showing a person in a suit reading a book. The words 'PROFESSIONAL BOOKS' are written in large, white, sans-serif font.

## PROFESSIONAL BOOKS

Browse a cross-section of [professional reference publications](#) 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 [EnergyVortex](#), 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](http://www.aeecenter.org).



## GPAEE Chapter Board Officers & Board at Large

| Board Position                   | Officer Name        | Organization                                 |
|----------------------------------|---------------------|--|
| President                        | Bill Oppenheim      | <u>Schneider Electric</u>                    |
| Treasurer                        | Jon Wohl            | <u>DCO Energy</u>                            |
| 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          | <u>Concord Engineering</u>                   |
| Website                          | Michael Walton      | <u>Burns Engineering</u>                     |
| Education                        | Helen Silvis        | <u>Veolia</u>                                |
| Employment Initiative            | Jim Clark           | <u>Clark Energy</u>                          |
| Secretary                        | Phil Coleman        | <u>Lawrence Berkeley National Laboratory</u> |
| Past President                   | Christine Batchelor | <u>Limbach, Inc.</u>                         |
| Events Coordinator               | Judi Subers         | <u>South Jersey Energy</u>                   |

### 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  |
|--|--|
| <b>Corporate Membership</b><br><b>\$150.00 (includes 5 people, each additional person is \$30)</b> | <ul style="list-style-type: none"> <li>• 5 Individual annual memberships - a \$175 value</li> <li>• Listing in the National Newsletter</li> </ul>  |
| <b>Newsletter Advertisement</b>  | <ul style="list-style-type: none"> <li>• 1/4 page - \$50.00 per issue or \$100 per year</li> <li>• 1/2 Page - \$75.00 per issue or \$200 per year</li> </ul>                                 |
| <b>Event Sponsorships</b>  | <ul style="list-style-type: none"> <li>• Corporate profile in Meeting Announcement &amp; Newsletter</li> <li>• Full Page Ad in Newsletter of choice</li> <li>• Table Top at Event</li> </ul> |

**Thank You**  
**Corporate Members!**

- ♦ [Burns Engineering](#)
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- ♦ [Constellation, an Exelon Company](#)
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- ♦ [EcoSave, Inc](#)
- ♦ [ECCO/GREGORY Inc.](#)
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- ♦ [Veolia Energy Philadelphia](#)

**Welcome New Members!**

**Thomas Quigley—ICF**

**Jeremy Turk—Student**

**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 of 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.

To become an AEE National Member, please click here:



Receive a 50% discount on National Membership by entering

“Chapter 50”



James A .Clark  
President

**CLARK ENERGY, INC.**  
**Energy Consulting Services**

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Phone: 610.325.9229  
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**TAKE  
CONTROL  
OF YOUR  
ENERGY COSTS.**



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Take advantage of sustained and dependable savings with PGW's wide range of fuel rates and rebates. Switch to natural gas, or maximize your savings through a CHP system.

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