



### About the Central PA Chapter:

- Local Chapter meetings held throughout the year (except July & August).
- Monthly meetings generally include a speaker on a "hot" energy topic coupled with a plant tour.
- Network with industry peers.

We're on the Web!  
[www.aee-centralpa.org](http://www.aee-centralpa.org)

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# Energy Report

Newsletter for the Central Pennsylvania Chapter of The Association of Energy Engineers

Volume II, Issue IX

October 2009

## NOVEMBER 2009 MEETING NOTICE

### AEE Central PA Chapter November 12, 2009 Meeting Announcement

- Meeting Topic:** Demand-Response, Peak-Shaving, and Cogeneration, PA Act 129 Update
- Speaker:** John Costlow, SEF (Sustainable Energy Fund)  
Kevin Close, Ames True Temper  
Craig Hikes, Ames True Temper
- Location:** Schaedler-Yesco Distribution, Inc.  
3982 Paxton St.  
Harrisburg, PA 17111
- Date:** Thursday, November 12, 2009
- Schedule:** 8:00 am – Registration / Networking  
8:30 to 10:00 a.m. – Speaker Presentations
- Registration:** **Guests are welcome and encouraged to attend!**  
**Registration is limited to the first 50 people!**  
Registration deadline is Monday, November 9th.
- To register, contact Diane Shellenhamer  
(717) 233-1621 x2472  
or [dshellenhamer@sydist.com](mailto:dshellenhamer@sydist.com)
- Registration is \$25 for CPAEE members,  
\$30 for non-members.
- Morning coffee and treats will be provided.

## World Energy Engineering Congress

**Mark your Calendars for the 2009 World Energy Engineering Congress!!!  
November 4-6, 2009, Washington Convention Center, Washington, DC**

The Association of Energy Engineers is very pleased to again bring the **World Energy Engineering Congress (WEEC)** to Washington, DC for 2009. Now in its 32nd year, the WEEC is well-recognized as the most important energy event of national scope for end users and energy professionals in all areas of the energy field. The WEEC features a large, multi-track conference agenda, a full line-up of seminars on a variety of current topics, and a comprehensive exposition of the market's most promising new technologies, with special free technology workshops held in the exhibit hall. In 2009 the WEEC will include a multi-track portion of the conference called FEMWorks 2009, a comprehensive series of workshops for federal energy managers, as well as GreenStreet 2009, offering both expert presentations and a showcase of the very latest environmentally friendly, green energy related products and services. The WEEC also serves as the annual convention of the Association of Energy Engineers, and is attended by more AEE members each year than any other single event.

Visit [www.energycongress.com](http://www.energycongress.com) for more details.

## Board Of Directors

*If you are interested in serving on the Board of Directors or participating in Chapter events, please contact one of the Directors listed below.*

President:	David Eberly, PE, CEM, GBE, CSDP Armstrong World Industries, Inc. president@aee-centralpa.org	<b>At-Large Board Members</b>
Vice President:	Douglas Aldinger, PE, LEED AP The Quandel Group vp@aee-centralpa.org	Kevin Close Ames True Temper
Treasurer:	Michael Parker, PE, CEM, CLEP, CDSM Johnson Controls, Inc. treasurer@aee-centralpa.org	Mark Kauffman, CEM, CEP UGI Energy Services, Inc.
Secretary:	Diane Shellenhamer Schaedler Yesco Distribution, Inc. secretary@aee-centralpa.org	Ed Burger (Past President) Efinity DG
Marketing/ Membership:	Rich Madeira, CEM Enginuity Energy	<b>At-Large Board Nominees</b>
Program/ Education:	Randy Koller Carlisle SynTec, Inc.	Adam Roscoe Lancaster General Hospital
Website/ Newsletter:	Thompson McConnell, CAP, CEM, CSDP, CDSM, CEA Powerhouse Operations Inc. webmaster@aee-centralpa.org	Randy Groff, Facilities Director Four Seasons Produce
		John Costlow SEF Director of Tech Services

## Message From The President



David Eberly, P.E., CEM, GBE, CSDP  
President, Central PA Chapter of AEE  
Armstrong World Industries

Welcome back!

I hope that all of you had an enjoyable summer and are ready for fall, undertaking new challenges that the energy industry continues to create for us. Considering Federal, State, and pending ACT 129 utility programs, we are experiencing exciting times as energy professionals. CPAEE's mission is "dedicated to helping our members and community to implement energy efficient technologies to reduce expenses, improve the environment, and bolster our regional economies".

This is the time to meet with your manager and express your interest in attending this year's World Energy Engineering Congress in Washington, D.C. from November 4-6, 2009. Now in its 32<sup>nd</sup> year, the WEEC is well recognized as the most important energy event of national scope for end users and energy professionals in all areas of energy and sustainability.

We are planning many interesting chapter events for this CPAEE year, and will be talking about those programs in upcoming Newsletter issues. I want to thank all of you for supporting CPAEE. Your continued support will make our chapter stronger and more relevant to regional issues and opportunities. I encourage you to give us feedback, and become involved with our chapter and program events.

Hope to see you at our next chapter event and WEEC 2009!

*Dave Eberly*  
*President, Central PA Chapter of AEE*

## About The Program

### Demand Response, Peak-Shaving, and Cogeneration

#### Program Background:

With the onset of increased electrical power costs and the strain on the electrical grid, there are cost savings methods that can be implemented effectively depending on the type of business or the associated costs with being *without* power for a period of time. This November CPAEE program will present information on these programs and suggestions on what has worked and not worked with Ames True Temper, a local industry example. In addition, pitfalls and considerations will be discussed that could impact any contracts for these cost savings measures as a company becomes more efficient, or reduce usage for economic downturn reasons during any contract periods.

#### Demand Response

By reducing or shifting electrical usage, a large electrical user can receive a source of revenue, paid directly to the user from a wholesale electric market operator. The incentive payment is used to encourage facilities to reduce electric consumption when the grid is in jeopardy. This allows the utilities and the power grid operators to meet peak demand without necessitating the continuous operation of older less efficient power plants. There are three programs in which to participate in demand response.

#### Peak Days, On Call (Capacity)

This event occurs when there is a higher demand for electricity than what grid the can handle or generation plants can generate. This may happen between the months of April through September normally during the summer months when daytime temperatures go above 90 degrees in the grid service area. When an event is called by the grid manager, normally between 12PM-8PM, the large electric user is given notice to curtail electric to a pre-agreed demand level within two hours of notice and stay at the reduced level for at least four, to as long as six hours. The number of events per year has been 0-4 in the PJM grid. The reduction is based on previous weeks' usage. Payments are guaranteed based on the agreed and proven reduction in demand.

#### Short Notice, On Call (Reserves)

This event occurs when there is major equipment failure supplying the grid. This can happen anytime of the year but usually during the peak electrical usage summer months. When this event is called the participating user has ten minutes to reduce to the agreed amount for at least fifteen to thirty minutes. The reduction is based on the previous weeks' usage. Payments are guaranteed based on the agreed and proven reduction in demand.

#### Self-Scheduling

This is a completely voluntary program and is at the discretion of the end user at any time. The user can schedule a reduction in usage of any amount for any duration they choose. Normally, the reason is a shut down period or a large electric consuming machine going down for repair. It can also be used if the user has more economical electric generation capability on site and want to take advantage of a high energy price period. The user can schedule the period for testing of the electric generation equipment and be paid to do it with offset in cost.

#### Peak Shaving

Peak shaving reduces the impact of the high peak demand cost on the electric bill. This requires capital investment into meters and an automatic method to reduce peak demand. The meters are installed on the primary source electrical lines to monitor usage in real time. When an established acceptable peak demand threshold is reached the user limits the usage to not exceed the threshold. This can be accomplished by using two methods. 1) Reduce load usage or 2) have on site co-generation capabilities. The balancing of the cost of the demand charge and the investment plus automatic reduction method cost must be watched closely to maintain a positive cost savings.

#### Co-generation (Cogen)

Co-generation or cogen allows the flexibility to do all of the above cost savings. There is a considerable amount of capital needed to be able to cogenerate. Today, there is grant money available to help offset those costs. Wind, solar, water, geothermal and IC generators are some of the ways to cogen.

### PA Act 129 of 2008

This Act became effective on November 14, 2008. Among other things, the Act created an energy efficiency and conservation program, detailed in the Pennsylvania Public Utility Code. This program requires an EDC (Electric Distribution Company) with at least 100,000 customers to adopt a plan, approved by the PUC, **to reduce electric consumption by at least one percent (1%) of its expected consumption for June 1, 2009 through May 31, 2010, adjusted for weather and extraordinary loads.** Further reductions, to a minimum of three percent (3%) are to be accomplished by May 31, 2013. PA Utility filings to accomplish these reductions were made on July 1, 2009 and are expected to be approved in November 2009.

## About The Speakers

**Kevin Close**, Engineering Manager at Ames True Temper and **Craig Hikes**, Project Manager also from Ames True Temper will speak about these utility and PJM incentive programs. Craig, with Ames True Temper for 20 years, has been actively involved optimizing opportunities for electricity discounts, and initiated demand response contracts in 2007. Ames has achieved financial incentives through curtailments, self-scheduling, and on-call programs. Specific case study examples will be presented for these incentive programs.

**John Costlow**, Director of Technical Services for the Sustainable Energy Fund, will present a brief update on pending Pennsylvania Act 129 legislation. Since the initial July 2009 utility filings with the Public Utility Commission, John has attended many of the 129 public hearings, and will speak to what the final legislation will include, and how electric utility customers should exploit the Act's provisions.

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## Directions To The Meeting

*Directions to*  
**Schaedler Yesco Harrisburg**

3982 Paxton Street  
Harrisburg, PA 17111  
phone (717) 233-1621

### **From York, Baltimore, MD:**

Take I-83 North towards Harrisburg. Take Exit #45 (Paxton Street). Take the first right onto Wayne Street. Turn right onto S. 29th Street. Turn right onto Derry Street. Turn right onto 40th Street. Turn right onto Paxton Street. Schaedler Yesco is on the right-hand side

### **From Lancaster, Harrisburg Int'l Airport:**

Take Route 283 West. Take the I-283 North Exit towards Harrisburg. Take the Route 441 Swatara Exit #2. Turn left onto 441 North. Turn right on Eisenhower Blvd. Take the Derry Street Exit. At the light, turn right onto Derry St. Turn left onto 40th Street. Turn right onto Paxton Street. Schaedler Yesco is on the right-hand side.

### **From Reading, Lebanon, Hershey:**

Take Routes 422/322 West towards Harrisburg. Take the Carlisle/Lewistown Exit (I/83 North/322 West). Take the Derry Street Exit. At the light, turn right onto Derry St. Turn left onto 40th Street. Turn right onto Paxton Street. Schaedler Yesco is on the right.

## Directions To The Meeting (continued)

### **From PA Turnpike Exit 242 (I-83):**

Go North on I-83 towards Harrisburg. Take Exit #45 (Paxton Street). Take the first right onto Wayne Street. Turn right onto S. 29th Street. Turn right onto Derry Street. Turn right onto 40th Street. Turn right onto Paxton Street. Schaedler Yesco is on the right-hand side.

### **From PA Turnpike Exit 247 (Harrisburg East):**

Take I-283 North to Exit #2 (Route 441 Swatara). Turn left onto 441 North. Turn right on Eisenhower Blvd. Take Derry Street Exit. At the light, turn right onto Derry St. Turn left onto 40th Street. Turn right onto Paxton Street. Schaedler Yesco is on the right-hand side.

### **From Gettysburg, Dillsburg:**

Take Route 15 North to Route 581 East. Continue to I-83 North towards Harrisburg. Take Exit #45 (Paxton Street). Take the first right onto Wayne Street. Turn right onto S. 29th Street. Turn right onto Derry Street. Turn right onto 40th Street. Turn right onto Paxton Street. Schaedler Yesco is on the right-hand side.

### **From Chambersburg, Shippensburg, Carlisle:**

Take Route 81 North to Route 581 East. Continue to I-83 North towards Harrisburg. Take Exit #45 (Paxton Street). Take the first right onto Wayne Street. Turn right onto S. 29th Street. Turn right onto Derry Street. Turn right onto 40th Street. Turn right onto Paxton Street. Schaedler Yesco is on the right-hand side.

### **From State College, Lewistown:**

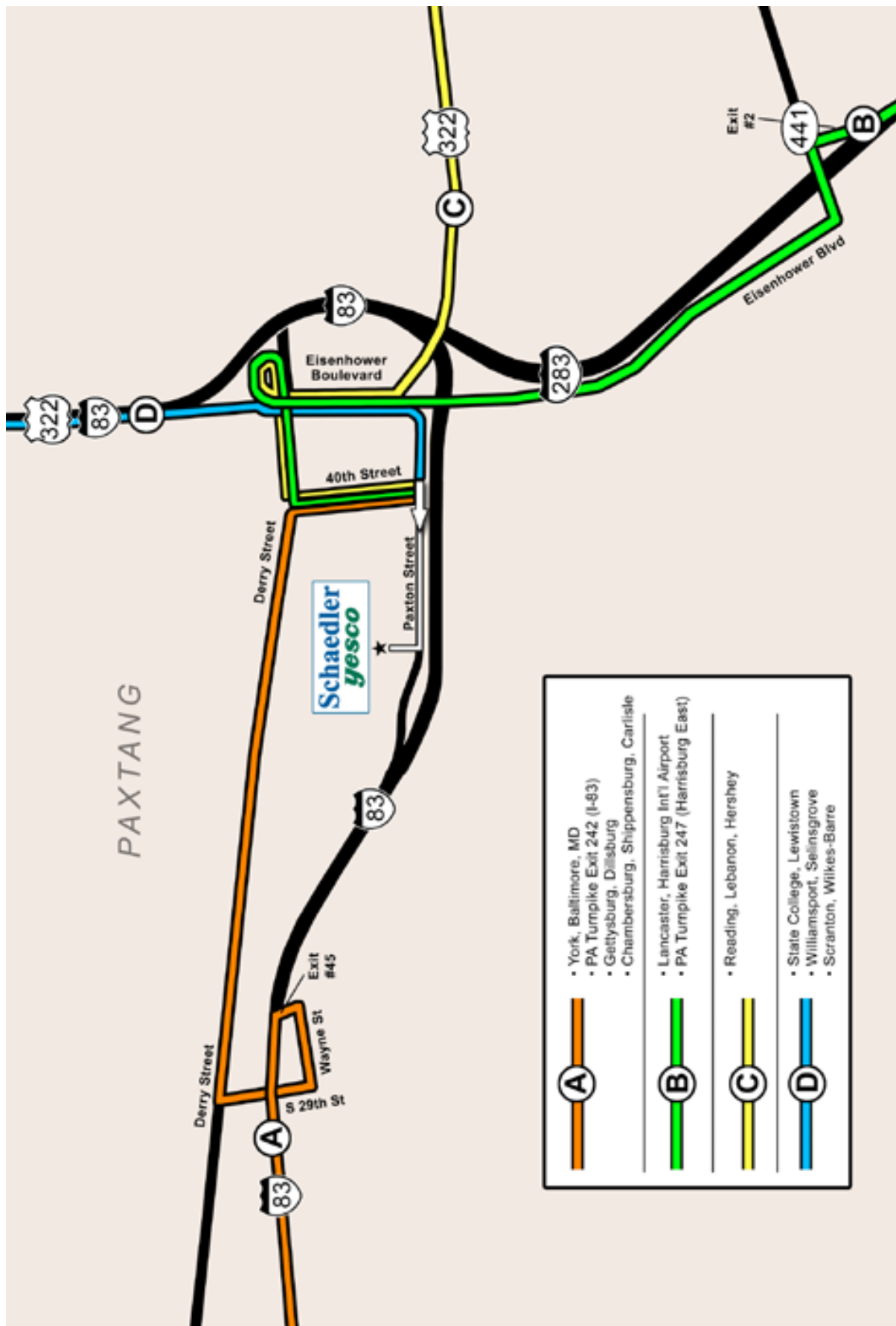
Go East on Route 322. Take I-81 North to I-83 South. Take Exit #47 - Hershey/Derry Street/Paxton Street (Route 322). Take the Paxton Street Exit. Schaedler Yesco is on the right-hand side just past Stroehmann's.

### **From Williamsport, Selinsgrove:**

Take Routes 11/15 South to Route 322 East. Take I-81 North to I-83 South. Take Exit #47 - Hershey/Derry Street/Paxton Street (Route 322). Take the Paxton Street Exit. Schaedler Yesco is on the right hand side just past Stroehmann's.

### **From Scranton, Wilkes-Barre:**

Take I-81 South to I-83 South. Take Exit #47 - Hershey/Derry Street/Paxton Street (Route 322). Take the Paxton Street Exit. Schaedler Yesco is on the right-hand side just past Stroehmann's.





**CPAEE MEMBERSHIP FORM**



Prefix: \_\_\_\_\_  
First Name: \_\_\_\_\_  
Last Name: \_\_\_\_\_  
Title: \_\_\_\_\_

If you are a registered Professional Engineer or Architect,  
please indicate state(s) and registration number(s):

Number: \_\_\_\_\_  
State 2: \_\_\_\_\_  
Number: \_\_\_\_\_  
Years experience: \_\_\_\_\_

**Education**

University: \_\_\_\_\_  
Degree: \_\_\_\_\_  
Field: \_\_\_\_\_

**Payment Information:**

Payment Method: Check or Cash ONLY  
Purchase Order Number: N/A  
Acct. Number: N/A  
Name as it appears on card N/A  
Expires N/A

**Company**

Company Name: \_\_\_\_\_  
Company Address: \_\_\_\_\_  
City: \_\_\_\_\_  
State/Province: \_\_\_\_\_  
Zip/Postal Code: \_\_\_\_\_  
Country: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-mail: \_\_\_\_\_

**Home**

Home Address: \_\_\_\_\_  
City: \_\_\_\_\_  
State/Province: \_\_\_\_\_  
Zip/Postal Code: \_\_\_\_\_  
Country: \_\_\_\_\_

Mail To Home or Work? \_\_\_\_\_

**Central PA Membership dues are \$35 per year.**

Checks Payable to:  
Central Pennsylvania Chapter of AEE  
Mail to : Michael Parker, Treasurer  
230 South Lewisberry Road  
Mechanicsburg, PA 17055



**DECEMBER MEETING NOTICE**



**The Central Pennsylvania Chapter of the  
Association of Energy Engineers**

Invites you to our annual

**HOLIDAY SOCIAL**

**Thursday, December 3, 2009**

5:00 – 7:00 PM at

**Iron Hill Brewery & Restaurant**

781 Harrisburg Pike

Lancaster, PA 17603

717-291-9800

**Social includes a Brewery Tour by the Brewmaster**

**Hot Appetizers**

**CPAEE Members - \$25.00**

**Non-members - \$30.00**

Please make reservations with Mike Parker at:

[michael.s.parker@jci.com](mailto:michael.s.parker@jci.com)

We ask that payment be received no later than December 1, 2009. Please mail your checks made out to Central PA Chapter of AEE with your reservation to:

Michael Parker  
Treasurer, Central PA Chapter of AEE  
230 South Lewisberry Road  
Mechanicsburg, PA 17055

c/o David Eberly  
Armstrong World Industries, Inc.  
2500 Columbia Ave  
Lancaster, PA 17604

Phone: 717-396-5666  
Fax: 717-396-5668

Email:  
president@aee-centralpa.org

We're on the Web!  
[www.aee-centralpa.org](http://www.aee-centralpa.org)

## Chapter Schedule of Events (2009-2010)



August 19, 2009	Schaedler-Yesco Harrisburg, PA	Lighting Technologies Energy Star Webinar
September 17, 2009	Harrisburg, PA	Demand Response & Co-gen Enginuity's NEW Energy Center
September 24, 2009	Harrisburg, PA	Felisita Golf Course Golf Outing
November 17, 2009	Schaedler-Yesco Harrisburg, PA	Demand Response, Peak-Shaving, and Cogeneration
December 3, 2009	Iron Hill Brewery Lancaster, PA	Holiday Social
January 21, 2010	Schaedler-Yesco Harrisburg, PA	PA Act 129
February 18, 2010	Johnson Controls New Cumberland, PA	Financing Energy Conservation Projects
March 2010	TBA	TBA
April 2010	TBA	TBA
May 2010	TBA	Joint ASHRAE / CPAEE Meeting Solar Installation at Carlisle SynTec

