



### 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 III, Issue II

February 2010

## MARCH 2010 MEETING NOTICE

### AEE Central PA Chapter March 11, 2010 Meeting Announcement

**Event:** Why Purchase Energy Efficient Electrical Equipment?  
Motors, Transformers, Legislation, and ACT 129

**Speakers:** Richard E. deFay, Project Manager,  
Electrical Application Specialist for the  
Copper Development Association

**Location:** Enginuity's New Energy Center  
180 Silver Springs Road  
Mechanicsburg, PA 17050

**Date:** Thursday, March 11<sup>th</sup>, 2010

**Schedule:** 8:00 am – Registration and Networking  
8:30 am – 10:30 am – Speaker Presentations

**Registration:**  
To register, contact David Eberly  
Deadline is Monday, March 8<sup>th</sup>  
(717) 396-5666 or [daeberly@armstrong.com](mailto:daeberly@armstrong.com)

**Cost:** Registration is \$25 for CPAEE members,  
\$30 for non-members  
Morning coffee and treats will be provided

## About the Speaker

Richard E. deFay is the Project Manager, Electrical Applications Specialist, for the Copper Development Association. He speaks at seminars, workshops, conferences, trade shows, continuing education programs, about the role of energy efficient motors and transformers, antimicrobial applications of copper, energy efficiency, MotorMaster+ software, energy efficiency legislation and the important role copper plays in energy efficient motors.

Previously, he worked for Applied Proactive Technologies as a program representative for the New York State Energy Research and Development Authority ( NYSERDA) Premium Efficient Motors program under the state's Energy \$mart program. There, he conducted over 60 on-site motor audits for Industrial, Commercial, School and Hospital sites.

Mr. deFay has been a public speaker, teacher and trainer for most of his career. He holds both a B.S and M.Ed. degree from Springfield College in Massachusetts and has advanced degrees from the American College in Bryn Mawr, PA and the College for Financial Planning in Denver, CO. He is a member of IEEE. Mr. deFay hosts webinars relating to energy efficiency and motors and participates in workshops in conjunction with Washington State University and their DOE sponsored MotorMaster+ BestPractices training programs.

## 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.*

### Chapter Board Officers

President:	David Eberly, PE, CEM, GBE, CSDP Armstrong World Industries, Inc. <a href="mailto:president@aee-centralpa.org">president@aee-centralpa.org</a>
Vice President:	Douglas Aldinger, PE, LEED AP The Quandel Group <a href="mailto:vp@aee-centralpa.org">vp@aee-centralpa.org</a>
Treasurer:	Michael Parker, PE, CEM, CLEP, CDSM Johnson Controls, Inc. <a href="mailto:treasurer@aee-centralpa.org">treasurer@aee-centralpa.org</a>
Secretary:	Diane Shellenhamer Schaedler Yesco Distribution, Inc. <a href="mailto:secretary@aee-centralpa.org">secretary@aee-centralpa.org</a>
Marketing/ Membership:	Rich Madeira, CEM Enginuity Energy
Program/ Education:	Randy Koller Carlisle SynTec, Inc.
Website/ Newsletter:	Thompson McConnell, CAP, CEM, CSDP, CDSM, CEA Powerhouse Operations Inc. <a href="mailto:webmaster@aee-centralpa.org">webmaster@aee-centralpa.org</a>

### At-Large Board Members

Kevin Close Ames True Temper
Mark Kauffman, CEM, CEP UGI Energy Services, Inc.
Ed Burger (Past President) Efinity DG
Adam Roscoe Lancaster General Hospital
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

Greetings CPAEE Members:

I would like to thank everyone who was able to participate in January's PA Act 129 meeting. This program attracted our largest audience, with more than 50 in attendance to learn about this important electric utility program. Many thanks to our program speakers and particularly to Chairman Cawley for his excellent presentation on this PUC accomplishment. I also want to recognize and thank Schaedler-Yesco for generously hosting the event.

Our next two meetings are follow-up and reinforcement for ACT 129 equipment incentives. On February 18<sup>th</sup>, Scott Foster from Hannon Armstrong will speak to the Chapter about Funding and Financing Energy projects. This program will be held at Johnson Controls. On March 11<sup>th</sup>, Rich deFay from the Copper Development Association will speak to the advantages of energy efficient electrical equipment – details in this newsletter.

Also on the radar screen, we will be starting the nomination process for 2010 in April. Chapter officer, standing committee, and at large Board positions will be open. If you would like to get involved with CPAEE, this is your opportunity. If you are aware of someone who has interest in our organization, please consider a nomination on his or her behalf.

I want to thank all of you again 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.

*Dave Eberly  
President, Central PA Chapter of AEE*

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## Mark Your Calendar---April Meeting Preview

Join us for our April 15<sup>th</sup> meeting, an educational program to be held at Dickinson College in Carlisle, Pennsylvania. The event will include an overview of sustainability initiatives and a Campus tour. The tour will include an 60 kW PV installation at the Facilities Management building, two new LEED gold facilities, and a Biodiesel production shop. The meeting will be held at Dickinson's Campus, beginning at 8:30 AM.

Please plan to join us. Additional information will be provided in our next newsletter, and on our website at [www.aee-centralpa.org](http://www.aee-centralpa.org).

## About the Program

Following up on the ACT 129 equipment rebate programs now in place with PPL customers, this program will demonstrate how energy efficient motors and other energy efficient electrical equipment will reduce electrical consumption, improve reliability, and reduce downtime in your facilities.

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## About The Copper Development Association, CDA

### CDA's Mission

The Copper Development Association Inc., CDA, is the market development, engineering and information services arm of the copper industry, chartered to enhance and expand markets for copper and its alloys in North America. CDA was established in 1962 by the major U.S. producers and soon embraced the brass mill members of the Copper and Brass Research Association, which had been formed in 1921 following WWI. The association has a rich history of serving the industry, its member companies, their customers and all end users of copper and copper alloy products. Through the International Copper Association, CDA is affiliated with 28 similar organizations around the world.

### Copper, An Important Natural Resource

We're in no danger of running out of copper. Known worldwide resources of this important and valuable metal are estimated at nearly 5.8 trillion pounds of which only about 0.7 trillion (12%) have been mined throughout history. And keep in mind, nearly all of that 0.7 trillion (or 700 billion) pounds is still in circulation because copper's recycling rate is **higher than that of any other engineering metal**. Until well into the 1800s, most copper used in the U.S.A. had to be imported. Today, we are virtually self-sufficient and, worldwide, second only to Chile in production.

Each year in the U.S.A., nearly as much copper is recovered from recycled material as is derived from newly mined ore. Excluding wire production, most of which uses newly refined copper, more than three-fourths of the amount used by copper and brass mills, ingot makers, foundries, powder plants and other industries comes from recycled scrap. Almost half of all recycled copper scrap is old post-consumer scrap, such as discarded electric cable, junked automobile radiators and air conditioners, or even ancient Egyptian plumbing. (Yes, it's been around that long.) The remainder is new scrap, such as chips and turnings from screw machine production.

### Why Consider Copper a Sustainable Material

Copper's superior thermal and electrical conductivity, combined with its 100% recyclability make copper a truly green material perfect for building a sustainable world.

## About The Association of Energy Engineers

The Association of Energy Engineers (AEE) is a nonprofit professional society of over 11,000 members in 78 countries. The mission of AEE is “ *to promote the scientific and educational interests of those engaged in the energy industry and to foster action for Sustainable Development.*”

AEE offers a full array of informational outreach programs including seminars (live and internet based), conferences, journals, books, and certification programs.

AEE's network of 67 local chapters meets regularly to discuss regional issues. AEE's roster of corporate members is a veritable “who's who” from the commercial, industrial, institutional, governmental, energy services, and utility sectors.

The Central Pennsylvania Chapter of the Association of Energy Engineers serves those involved in energy management throughout the mid-state region.

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## Directions To The Meeting

*Directions to*  
**Enginuity's New Energy Center**  
**180 Silver Springs Road**  
**Mechanicsburg, PA 17050**

### From Points South:

Take **I-283 N** towards **I-81/I/83/Harrisburg**  
Merge onto **I-83 S** via **EXIT 3A** on the Left near Harrisburg  
Stay Left to take **PA-581 W** via **EXIT 41A** towards Camp Hill  
Take **US-11/Carlisle Pike** exit, **EXIT 3**  
Turn right onto **Carlisle Pike**  
Turn Left onto **Silver Spring Road**.  
Energy Center is on the left.

### From Points North:

Take **US-322 E** towards **I-81/Harrisburg**  
Merge onto **I-81 S** toward **Carlisle**  
Take **PA-114** exit, **EXIT 57**, towards **Mechanicsburg**  
Turn Left onto **PA-114/CONODOGUINET PKWY**  
Turn Left onto **Carlisle Pike/US-11**  
Turn Right onto **Silver Spring Road**.  
Energy Center is on the left.

**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

## Globalcon 2010

The 2010 Globalcon conference will be held in Philadelphia, PA, on March 24th & 25th at the Philadelphia Convention Center. Globalcon 2010, presented by The Association of Energy Engineers, is designed specifically to facilitate those who need to get up to speed on the latest developments in the energy field, explore promising new technologies, compare energy supply options, and learn about innovative and cost-conscious project implementation strategies.

[www.globalconevent.com](http://www.globalconevent.com)

## Future Topics

Would you like a say in what topics are covered at future AEE Meetings? Take our survey of potential topics. The link to the survey is available on our "News" web page.

<http://www.aee-centralpa.org/news.htm>

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 11, 2010	Enginuity Energy Mechanicsburg, PA	Energy Efficient Electrical Equipment
April 15, 2010	Dickinson College Carlisle, PA	Sustainability and Energy Improvements
May 12, 2010	Carlisle Syntec	Joint ASHRAE / CPAEE Meeting Solar Installation at Carlisle SynTec
June 17, 2010	Armstrong World Ind. Lancaster, PA	Energy Star Webinar Driving Responsible Energy Use

