



Association of Energy Engineers Western PA Chapter



February 2017

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From the Desk of the President

Hello Energy Enthusiasts,

Happy February everyone! Old Punxsutawney Phil has gone and saw his shadow again so 6 more weeks of winter. I guess we will keep those heating systems running a bit longer. However, If I saw the weather report this week correctly, we will be sunbathing in the 60 degree weather for a day or so this week, then we will be freezing our butt's off again. Got to love Pittsburgh weather. Don't forget to economize.....

I have great news to those of you who would like to get the Certified Energy Management (CEM) certification. AEE Western, PA chapter has an opportunity to present this training in May this year. Please email me or post a message on our Facebook page letting me know if you are interested. We need a minimum of 15 people to offer the training. If I see we can get that, I will set it up.

It's a great opportunity, don't let it pass you by!!!!

Upcoming AEE News and Events:

- February 28th, 2017 - Chilled Water Energy Savings Study - Maximizing Pumping and Chiller Efficiency - Presented by Robert Rybka - Belimo



As always, please free to call or email me with any questions about the chapter. I

Current Chapter Officers

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AEE Western, Pa Chapter - Corporate Sponsors



<https://www.go-gba.org/>

Green Building Alliance (GBA) has worked to advance healthy, high performing, and green places in Western Pennsylvania since 1993. An aligned chapter of the U.S. Green Building Council, GBA proudly serves 26 counties in Western Pennsylvania through three branches: Greater Pittsburgh, Northwest Pennsylvania, & Laurel Highlands.



www.e-finity.com

E-Finity Distributed Generation is the Mid-Atlantic and Southeast Distributor for Capstone Turbine Corporation and an active member of the distributed generation and combined heat and power community. We actively promote energy solutions by designing, integrating, and maintaining Capstone's high efficiency air bearing technology to create resilient onsite CHP & CCHP power plants. For a comprehensive energy and economic analysis, please email: mcostello@e-finity.com
www.e-finity.com

****Thank you E-Finity for becoming a sponsor!! The AEE Western, PA chapter appreciates your support!!**

***Become a sponsor and reap the benefits!**

- Discounted event pricing.
- Free memberships based on level of sponsorship.
- Company logo and acknowledgements in newsletters and event posting.

See More details on Page 5/6

AEE Western, Pa Chapter 2017 Event Postings

Please feel free to email any suggestions you may have for an event or if you would like to present on a topic.

2017 Event Calendar

January - Duquesne Light's Watt Choices Commercial Efficiency Program—Successful Event

February - Chilled Water Energy Savings Study - Maximizing Pumping and Chiller Efficiency - Presented by Robert Rybka - Belimo

March - TBD/ National - Globalcon - March 22nd -23rd —Philadelphia, PA

April - TBD

May - Tentative CEM Training and Exam—Email me if you are interested....

June/July/August - Summer Break

September - Golf Outing - Quicksilver Golf Club / National - WEEC September 27th - 29th - Atlanta, GA

October - TBD

November - TBD

December - Holiday Social/Networking Event

**AEE February 2017 Event
Register today:**

Chilled Water Energy Savings Study - Maximizing Pumping and Chiller Efficiency

Location and Agenda:
Gaetano's
1617 Banksville Road
Pittsburgh, PA 15216
412-343-6640

Thursday February 23rd, 2017 11:30am to 1:30pm

Lunch buffet included in price

Evening Event - Student \$25.00 - Member \$35.00 - Non-Member \$45.00

Overview:

Our industry has proven that chiller water low Delta T causes chiller plant inefficiency and a dramatic increased pumping cost. This presentation will analyze how correcting low Delta T will eliminate over pumping and costly chiller plant inefficiency. By replacing manual balancing with dynamic pressure independent balancing, low delta T can be dramatically improved. The Delta T Manager will then balance the coil to its designed delta T and maximize efficiency. Balancing using water delta T allows systems to run as they were designed to run. Low delta T is proven to be costly and ineffective. We will review the MIT low delta T chiller plant study and how one building reduced its pumping 50% by correcting low delta T. We will also share the savings the end user can realize by correcting low delta T and show how savings can be calculated.

Energy Valve/ Delta T Manager technology controls coil flow first by water temperature (correcting Delta T) then by typical Building Management System/Thermostat controller. The water coils can then function at the designed BTU output, eliminating overflow waste. Belimo smart technology allows the user to data log energy usage, confirm coil performance and therefore the Energy Valve is quantifiable. This can all be accomplished without adding additional points to your BMS.

Manual, dynamic and delta T balancing
An Independent DT Study
Chilled Water System Design
MIT Beta Site Study-Correcting Low delta T
Data Analysis and Optimization and Functionality
Calculate Savings
Additional Applications

Presenters:

Robert J. Rybka

Summary of Qualifications

- 42 years experience in installation, service, development, sales and technical training for process HVAC, hydronic systems and controls
- * Provided technical training for the installation of process systems and the selection, sizing and application of control valves and airside / fire and smoke actuators.
- *

Work Experience

- Current – Regional Application Consultant, Northeast, Belimo Americas
 - o development of training programs for control engineers throughout the northeast,
 - o developing and expanding market share of Belimo products and technology
 - o providing technical training and assistance in the sizing and selection of control end devices installed in commercial facilities and controlled through 'direct digital' and 'practical logic controllers'
 - o product and application development



Association of Energy Engineers Western PA Chapter



February 2017

Corporate Sponsorship Program

Dear Prospective Corporate Sponsor:

The Western PA Chapter of the Association of Energy Engineers invites your company to participate in its Corporate Sponsor Program, which offers opportunities for corporate sponsors to become active players in promoting the Association's goals of energy and environmental conservation and cost savings.

As a Corporate Sponsor, you will have enhanced opportunities to converse with energy professionals who recommend, specify, and/or purchase energy products and services. Your participating staff will benefit from staying current with technology and market developments in our regional industry through the topical presentations at our nine chapter events each year. Through Corporate Sponsorship your company can enjoy the following additional benefits:

Standard Sponsor

- Two individual memberships in the Chapter at no additional cost, entitling the named individuals to the discounted door charge at monthly chapter Events
- Free banner advertisements in each monthly issue of our Newsletter and additional advertising at a preferred rate
- Named acknowledgment in a Corporate Sponsor listing in each issue of the Newsletter,
- Listing on our website (<http://www.aeecenter.org>), with hotlinks available at no additional charge
- Opportunity to briefly describe your company and services at an upcoming chapter event.
- Perhaps the most valuable benefit of all is the recognition and respect that your firm will earn by assisting our local chapter to continue its critical role in the changing energy environment of Pittsburgh, PA

Firms wishing to join the sponsorships can opt to include annual pre-paid meeting dues for employees who wish to attend our monthly events. Accordingly, firms now have the option to prepay a full year's attendance for as many as 3 employees:

Annual Corporate Sponsorship starts at \$150.

\$150 – Standard Sponsor

\$375 – Supporting Sponsor (includes one year of AEEPA meeting admission for 1 employee)

\$600 – Leading Sponsor (includes one year of AEEPA meeting admission for 2 employees)

\$725 – Champion Sponsor (includes one year of AEEPA meeting admission for 3 employees)

We look forward to having you as a Corporate Sponsor. If you accept our sponsorship invitation, please return attached initiation form along with your firm's check, payable to Western, Pa Chapter, Association of Energy Engineers. We will also have links on our website for payment.

Mail to:
Dennis Kronz
90 Springmeadow Ct.
Pittsburgh, PA 15236



Association of Energy Engineers Western PA Chapter

<http://www.aee.memberlodge.com>

Corporate Sponsorship

Corporate Sponsorship Form & Invoice

Company

Main Contact

Last name		First name		MI
Title		Address #1		
Address #2		Address #3		
City		State	Zip	
Telephone	Fax		Email	

Invoice

Sponsorship Level <i>(check appropriate box)</i>	Annual Rate
<input type="checkbox"/> Standard Sponsor (includes all standard Sponsorship benefits described above)	\$150
<input type="checkbox"/> Supporting Sponsor (includes one year of pre-paid meetings for 1 employee)	\$375
<input type="checkbox"/> Leading Sponsor (includes one year of pre-paid meetings for 2 employees)	\$600
<input type="checkbox"/> Champion Sponsor (includes one year of pre-paid meetings for 3 employees)	\$725
<i>Amount Due (make check payable to: Western Pa Chapter, Association of Energy Engi-</i>	

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If you have any comments, have any ideas or would like to contribute a news article to our newsletter, please contact me

***We are on the web at
aeecenter.org
Under Western
PA Chapter***



Who Are We?

The Association of Energy Engineers (AEE) is a non profit professional society of 8,500 members in 77 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." The Western Pennsylvania Chapter of AEE is consists of members from the Pittsburgh and surrounding areas. Our mission follows that of AEE National.

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

To become an AEE National Member, please go to <http://www.aeecenter.org/membership/>.

LOCAL MEMBERSHIP

Western PA Chapter of the Association of Energy Engineers

Date

Local Chapter Dues for 2015 **\$ 25.00**

New Member _____ Renewal _____

Please fill out the following information.

Name: _____

Company: _____

Address: _____

City/State/Zip: _____

Business Phone: _____

FAX: _____

E-mail Address: _____

Suggested Speaker Topic or Tour: _____

Look forward to informative, professional, and educational presentations in the energy field, plus field trips to various locations in Pittsburgh

Sign up online at <http://aee.memberlodge.com>.

or
Email dkronz@wgtomko.com if you have any questions

Amount Paid _____

Method of payment _____

Check Number _____

Payment received by _____