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tion and **Balance of Plant**

Association of Energy Engineers Western PA Chapter



January 2015

From the Desk of the President

Hello Energy Enthusiasts,

I would like to personally wish everyone a Happy New Year and welcome 2015! As you saw in the December newsletter, we are laying out 2015 with some great events, a spring golf outing and a June social. I am very excited about the lineup, specifically January's event which will showcase "Combined Heat and Power (CHP)" Plants and "Balance of Plant (BOP)" System integration, which will be co-hosted by my firm Thermo Systems.

If you would like to register for this event, please do so as soon as possible. Penn Brewery needs an accurate headcount one (1) week prior to the event!

Call for nominations for the leadership board are open. If you are interested in nominating a candidate or being nominated yourself, please contact me.

<u>Current Nominations (Deadline for nominations is January 16th, 2015):</u>
President: Curtis Dixon

Vice President: Chuck Watson

Treasurer: Denny Kronz Secretary: Stephen Chausse

As always, please free to call or email me with any questions about the chapter. I look forward to hearing from you.

Thank you! Curtis Dixon, CEM

ship Information/ **Application**

2015 AEE Member- **7**

5/6

Current Chapter Officers

President: **Curtis Dixon** Thermo Systems, Inc

curtis.dixon@thermosystems.com

Vice President: Chuck Watson EnergyChaser, LLC chuck@energychaser.com

Treasurer: **Denny Kronz** W.G. Tomko, Inc.

dkronz@wgtomko.com

Secretary: **Stephen Chausse** Johnson Controls Steve.chausse@jci.com

AEE January Event

Register today:

AEE Evening Event - CHP Gas Turbine Selection and Balance of Plant Controls Integration January 22nd, 2015 5:00PM to 8:00PM (Evening Event - Member \$30.00 - Non-Member \$40.00)

Penn Brewery

800 Vinial Street

Pittsburgh, PA 15212 USA

Presenters:

Thermo Systems

Kevin Porter - is a Pittsburgh native and graduated from Grove City College with a Bachelor's Degree in Electrical Engineering. He spent his early career as a Project Engineer for an underground storage facility in NW PA, surveying, estimating, designing electrical systems, and environmental testing. Kevin moved above ground to become an Application Engineer for a Digital Controls Company focusing on critical HVAC. He progressed into Account Management and then Sales where he now serves as Business Development Manager for Thermo Systems. With 14 years in the controls industry, his primary focus has shifted from HVAC to central utilities, CHP, and plant optimization.

Agenda

Thermo Systems - CHP Overview

What is CHP and why is it beneficial

Main Equipment

Turbine, Reciprocating Engine

Feasibility evaluation

Solar - Turbine Role in CHP

Explain the different types of turbines

Capacity (MW), Type (CTG, STG), Fuels

Turbine Output

Electrical generation

Waste Heat for boiler, steam turbine.

steam chiller

What's in the box?

Turbine, OIT, PLC

Need for Integration

Solar Turbine

Bernie Pfeifer - graduated from the University of Saskatchewan with a Bachelor's degree in Mechanical engineering. Spent the early part of his career working for a heavy industrial consulting engineering firm based in Toronto Canada. In 1990 he joined Solar Turbines in Melbourne Australia. Solar Turbines is a leading manufacturer of industrial gas turbines and Bernie was responsible for their Construction Services division that designed and constructed gas turbine driven compressor and power generating stations in Australasia. In 2003 Bernie relocated his family to Solar's corporate head office in San Diego where he held various positions in their complex project management group, balance of plant engineering and construction estimating division and in marketing. Bernie with over 25 years of experience in Power Generation, is now responsible for Solar's gas turbines generation sales and business development here in the Northeast

Thermo Systems - Balance of Plant system

What is BOP?

Automation considerations

Redundancy, PLC, DCS, SCADA Systems,

Network Architecture

Mechanical/electrical System integration

CEMS, SCR (Ammonia System)

Feedwater, Condensate Systems

Duct Burner

Air conditioning

HRSG

CTG/STG/Recip Engine

EMS/PMS

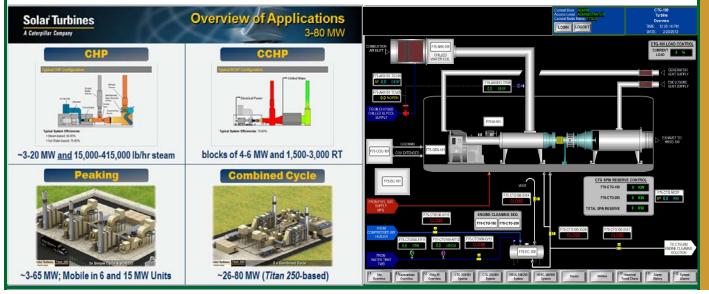
Load Shed, Synchronization to grid

Instrumentation

Gas Metering

Industrial Grade Devices

Case studies



AEE Western, Pa Chapter 2015 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.

2015 Events

January - CHP Gas Turbine Selection and Balance of Plant Controls Integration - Solar/Thermo Systems
February - Variable Refrigerant Flow Units - Mitsubishi
March - High Efficient Pumping - V-Systems
April - TBD
May - Golf Outing
June - Social - Hofbrauhaus

2015 Event Suggestions

Steam Boiler Systems
Renewables
Lighting
Water/Waste Water
Transportation
Smart grids
Data Centers - High Efficiency PUE's

We will start to solicit speakers and get a good schedule in place for the upcoming year.

AEE Western, Pa Chapter - Corporate Sponsors





http://cascousa.com/



Association of Energy Engineers Western PA Chapter



January 2015

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

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

Invoice

Company

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

MAIL TO:

PENNSYLVANIA/Western Pennsylvania Chapter

Dennis Kronz 90 Springmeadow Ct. Pittsburgh, PA 15236 Newsletter Editor Curtis Dixon Thermo Systems LLC

Phone: 412-298-9955 E-mail: curtis.dixon@thermosystems.com

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 _____

