

AEE May 2016 Event
Register today:

Industrial and Commercial Water and Air Side Optimization Strategies

Gaetano's
1617 Banksville Road
Pittsburgh, PA 15216
412-343-6640

Thursday May 26th, 2016 11:00AM to 2:00PM

(Lunch included - Students \$25.00 Members \$35.00 - Non-Members \$45.00)

Presenters

Curtis Dixon CEM, BEP (Thermo Systems LLC, Pittsburgh, PA)
Travis Smith PE, CEM (Smith Engineering PLLC, New York, NY)

Overview:

Chilled water plants, Heat Exchangers and Air Handling Systems optimization is an evaluation of your existing active systems and determining how to specifically sequence your control strategies to maximize performance and lowered energy consumption.

During this discussion we will be covering the following topics:

Facility Energy Survey - Levels 1, 2, 3

- ASHRAE Level 1 – Walk-Through Analysis/Preliminary Audit
- ASHRAE Level 2 – Energy Survey and Analysis
- ASHRAE Level 3 – Detailed Analysis of Capital Intensive Modifications

Retro-commissioning/Continuous-Commissioning

- Pre/Post Calibration program
- Pre/Post sequence of operation (SOP)
- Pre/Post preventive maintenance (PM) programs

Energy evaluation of existing systems

- Equipment nameplate information – Do you have VFD's?
- Power monitoring – Do you have this in place?
- Measurement and verification (M&V)
- Trending reports on HVAC process variables and power consumption

Sample CHWP AHU Optimization Sequencing (BNYMC)

- Control strategies used
- Implementation of new sequencing
- Integration of power monitoring systems and chillers via Modbus and Bacnet
- Before and after kw and kwh consumption reduction

Duquesne ACT129 Program

- Energy rebate discussion
- Trend reports – examples
- Report filling process

Capital Improvements

- Add VFD's
- Waterside Economizing
- More efficient chillers, pumps, Instrument and Control (I&C) device

Question and Answer

