

### **Upcoming Meeting Information**

#### **August 23, 2018 WV ASHRAE Meeting - Topic: Emerging Chiller Technologies**

**Meeting Location: Paterno's at the Park (601 Morris Street, Charleston, WV)**

**This ASHRAE meeting starts at 10:30 and is followed by a free lunch at 12. The meeting and lunch are being sponsored by Mason & Barry. NO COST to attendees. Mason & Barry is offering two NON-ASHRAE presentations and the Daikin Innovation Roadshow Trailer before and after lunch. Mason & Barry will be making a company donation to ASHRAE Research Promotions (RP) for each WV ASHRAE meeting attendee. We hope to see you there!**

**The ASHRAE Meeting Agenda:**

#### **10:30 - "Emerging Chiller Technologies"**

**Paul Crisman - Chiller Applications Engineer, Positive Displacement – Staunton, Va.**

#### **12:00 - Lunch - "Paterno's at the Park" courtesy of Mason & Barry**

**Other presentations**

#### **9:00 - "Discovering What's New in Water Source Heat Pump Technology"**

**Gary Cornwell - Senior Applications Engineer – Detroit, MI**

#### **1:30 - "Putting the Custom in Semi-Custom Air Handlers" -**

**3:00 - Roadshow exhibit will close.**

**Register for this event at <http://www.wvashrae.org/aug-23-meeting.html>**

**Sept 2018 WV ASHRAE High Performance Buildings Day**

Sponsored by: WV State Energy Office, WV ASHRAE Chapter, WVU and ZMM, Inc.

**Dates/Locations:**

**September 12, 2018** – Bridge Valley Community College - So. Charleston, WV

Meetings held in the Advantage Technology Center, Rooms ATC 131, 132, and 134. 2001 Union Carbide Drive, South Charleston, WV 25303 304-205-6649, Free Parking

**September 13, 2018** – National Energy Technology Laboratory (NETL) - Morgantown, WV. Includes tour of the NETL Facility. (Must be a US Citizen to attend). Free Parking.

Time: 8:00 AM - 3:00 PM (Actual program starts at 8:30 AM)

A total of **5** PDH hours will be provided for attending all sessions.

WV HPBD started last year with a focus on the New ASHRAE Advanced Energy Guide for Zero Energy K-12 Schools. Over 100 attended including the WV SBA Leader and his team. This year, the event will cover 5 new topics of interest to school district leaders, teachers and the design and construction individuals that support schools. We will be using a team panel approach with presenters coming from Academic, Architects, Engineers, Contractors, ESCO. Equipment Manufactures, and key WV Public Officials interested in better school buildings.

The event is held in two locations on back to back days, making it easier to attend.

**Topics:**

**I. “How do I score my building energy use?”**

**Introductory** –The WV Energy Office is helping all WV public K-12 schools get energy benchmarked and will start recognizing the top 25% with Energy Star Status in 2019. Get the latest update on Energy Star Schools and Districts. Find out how the WV State Energy Office and WV ASHRAE can get you free help to benchmark your schools.

**II. Existing School Energy Upgrades**

**Intermediate** – it is important to understand how energy reduction projects can impact schools Indoor Air Quality and Wellness ratings. Learn from experts (Dr Ken Means) about key industry IAQ Standards and how lighting, ventilation and heating/cooling systems impact wellness and energy use.

**IAQ Standards** – Thermal (ASHRAE 55), Ventilation (ASHRAE 62.1), Energy ASHRAE (90.1), Lighting, Noise (ANSI 12.60)

### III. Latest in Building Commissioning

**Intermediate** - What is commissioning, retro commissioning and interval commissioning? What does each level offer? And what is the cost? The newest interval commissioning gathers data from hvac, lighting and plug load systems in the building and uploads the data safely into the cloud where software monitors operations and energy use. This information can provide real time operational information to your operations and maintenance staff. Interval commissioning is a lot like OnStar for GMC cars/trucks but for buildings.

### IV. Creating a culture for energy awareness and conservation in building occupants

**Intermediate** – How can schools get teacher and student buy-in to energy building retrofits? How do custodians fit into the picture? What types of methods are available to communicate district policy to building occupants, and why should they care? Discussion of energy retrofits, building improvements, culture, energy dashboards, Zero Energy buildings, etc.

### V. Working with Open Book Projects – Questions you need to ask

**Advanced (Finance)** - WV encourages the use of a life-cycle project costing, an approach to building design that considers construction, operation and maintenance during the initial decision-making process. How do open book projects work when dealing with Energy Use? What questions can be asked to clarify and control excessive mark-ups and hidden fees.

### Registration

General Attendees: \$65, Students - \$15, Speakers, approved guests - \$0 Cost, includes continental style breakfast/refreshments and lunch.

Sign up by Sept 10 at <http://www.wvashrae.org/2018-hpb-day.html>

NOTE: The September 13, 2018 High Performance Building Day at NETL is for US Citizens or foreign nationals with prior approval.

### HPBD SPONSORSHIPS AVAILABLE

Proceeds go to WV ASHRAE Chapter Operating Fund

### Diamond Level Sponsor - ZMM, Inc.

Available: Gold Sponsors - \$1000, Silver Sponsors - \$500, or Bronze Sponsors - \$250. Payable to the WV ASHRAE Chapter. Sponsors get poster recognition at the event, get listed on the chapter website and in event promotions and free registrations: 1 for Bronze, 2 for Silver, 3 for Gold and 4 for Diamond. Sign up by Sept 10 at <http://www.wvashrae.org/2018-hpb-day>. For more information contact Art Hallstrom, FASHRAE at [ahallstrom@wvashrae.org](mailto:ahallstrom@wvashrae.org) or [art@ahallstrom.com](mailto:art@ahallstrom.com)



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