

March 2017 Newsletter

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Welcome to ASHRAE West Virginia's Total Building Performance Newsletter

Visit us at our Website - wvashrae.org

Welcome to our newest member - Mr Jason Chiles

Combustion Equipment Company, Inc.

Want to know what ASHRAE is doing in the State of WV or your county? Check out this webpage. Click on the capital star or any county.

<http://ashraeregion7.org/GovRepresent/StateMaps/westvirgstatemap.htm>

A lot is happen in the next 3 months.

[WV EXPO March 22](#)

[NETL Seminar March 31](#)

[WVAPPA Spring Meeting April 9-10](#)

[ASHRAE Spring Webinar April 20](#)

[WV ASHRAE Training Day and Product Showcase - May 11](#)

Want Doug Zentz's Feb presentations? [Use this link](#). Problems? Contact [Art Hallstrom](#)



March 22, 2017 – West Virginia EXPO Recommended Events

EXPO continues on March 23. [EXPO Website](#)

7:30 to 9:00 am - **Session 4** - Chapter meeting with Regional Director.

Where is ASHRAE Headed. Installation of New 2017-18 Officers and Board of Governors.
Breakfast and refreshments.. Room 204

9:00 to 10:00 am - **Session 8** - Opening EXPO presentation with the WV Governor and Speaker of the House and other State Administration.

10:00 to 11:00 am – **Session 19** - Retro-commissioning for Energy Savings (by Hoy Bohanon)- ASHRAE Distinguished Lecturer
GBCI Approved | 1 CE Hour | 0920010383
AIA Approved | 1LU | BOHANON03

What is retro commissioning? Is it required by LEED? How can a process save energy?
What are some of the aspects of an energy saving retro-commissioning application? What guidance is available from ASHRAE guidelines? What are the types of savings from the process and what are the critical components to assure that savings are realized?

11:00 to 12:00 pm – **Session 24** - Commissioning, Operating and Maintaining Air-to-Air Energy Recovery Systems (by Hoy Bohanon)
GBCI Approved | 1 CE Hour | 0920010385
AIA Approved| 1LU | BOHANON01

How does one commission energy savings equipment such as air-to-air energy recovery?
What are key performance factors that must be measured? When can you simulate and when must you measure? Devices addressed include air-to-air energy recovery plates and wheels, desiccants, run around loops, and water-side economizers.

1:00 to 2:00 pm – **Session 28** - ASHRAE Building Energy Quotient (bEQ) (by Hoy Bohanon)

GBCI Approved | 1 CE Hour | 0920010381

AIA Approved | 1LU | BOHANON05

ASHRAE has implemented a comprehensive building energy labeling program called Building Energy Quotient (Building EQ). The objective of this labeling effort is to provide motivation for reducing energy use in commercial buildings by expressing the energy performance of buildings in a tangible way. The underlying belief is that public display and disclosure of the energy efficiency attributes of a building and its energy use intensity (EUI) will lead building owners to strongly consider cost effective energy efficiency improvements at the time of design and construction and in any subsequent renovations. Public display and disclosure of energy efficiency attributes and EUI should be a relevant factor in the real estate transaction marketplace for commercial buildings.

Building EQ incorporates both an operational rating, based upon actual energy billing, and an asset rating that normalizes for operational variables. The two rating systems will thus be able to communicate both the performance of the building as operated and the potential performance of the fixed assets of the building.

This session will present the major ideas behind the development of the labeling program and the process for implementation.

#1 How can building energy labels influence the energy efficiency of the overall building stock?

#2 How the new ASHRAE Building EQ is different from other labeling systems?

#3 What metrics are most important for conveying the energy efficiency of a building?

#4 What you need to do to get a Building EQ label for your building.

2:00 to 3:00 pm – **Session 40** - Advanced Filtration and Air Cleaning in Buildings by Art

Hallstrom, P.E., ASHRAE Fellow

WV ASHRAE Chapter Pdh – 1 Hour

There is a difference between filtering air and cleaning the air. This session will cover both. Filtering is very commonly used but need to be properly selected and applied. Air cleaning removes chemicals and the newer ones can remove or deactivate pathogens, viruses, carbon based odors (VOC), mold and spores. Properly selected and applied, these products, like Photo Catalytic Oxidation, are effective and safe for buildings - be it a hospital, airport, school or home. Improperly applied they can be a safety issue.

3:00 to 4:00 pm – **Session 42** - Residential Energy Codes in WV – Where do we go from

here? by Art Hallstrom, P.E., ASHRAE Fellow

WV ASHRAE Chapter Pdh – 1 Hour

WV has adopted the 2009 IECC Energy Code for homes. Ky has adopted the 2012 IECC and Maryland the 2015 code and enforce it. This means a “meet code” home in Maryland is uses about 40% less energy than a West Virginia home. Building owners can require the better performing buildings and the WV HBA has an active program to help their members reach and even exceed the 2015 IECC Standard. It goes beyond just a good design. Requires it to be built right by the contractor and verified by a third party using a building blower door test and duct pressure test. This presentation will cover current and future options in this area.

Other WV Expo Sessions to Consider

Session 45 Commercial Energy Code Adoption, Compliance & Enforcement in West Virginia

March 22 @ 3-4 PM Room Parlor D

Sponsored by AIA West Virginia.

Representatives from the WV State Fire Commission, the International Code Council and the WV Department of Energy, along with featured speaker Rex Cyphers, PE, and representatives from ASHRAE WV (Sam Butzer, P.E.) and the Contractors Association of WV, will participate in a panel discussion regarding the adoption and enforcement of commercial energy codes in West Virginia, as well as strategies for compliance, from design through construction.

Session 59 Designing Buildings for Health and Wellness: The WELL Building Standard

March 23 @ 9:30 AM Room Parlor D

Presented by USGBC WV & AIA West Virginia.

Sponsored by AIA West Virginia.

The WELL Building Standard is the first protocol of its kind to focus exclusively on human health and wellness in the built environment. WELL identifies specific conditions, that when holistically integrated into building architecture and design, can enhance the health and well being of occupants.

NETL Energy Seminar

Friday, March 31, 8:00 am – 12:30 pm.

Hosted by Lewis College of Business and NETL, National Energy Technology Laboratory

NETL Energy Seminar
March 31st - 9am-1pm
 at the MU Memorial Student Center, BE5

Seminars on:
 Energy Resources, Global Energy Outlook, The Business of Energy, Research to Reality,
 The Global Push to Near Net Zero Buildings, and Changes in Indoor & Outdoor Lighting.

Professional Certificate credits will be available!
 Please RSVP by March 15th at: www.marshall.edu/sustainability/NETL-Energy-Seminar

Hosted by: The National Energy Technology Laboratory, the MU Lewis College of Business,
 Aetna Integrated Services, ASHRAE, WVa Electric Supply Company, and the MU Sustainability Dept.

WVAPPA Meeting April 9-10

WVAPPA is an organization of physical plant administrators in the state of WV. IRay Wohlfarth, WV ASHRAE Board Member, is the organization secretary and their annual Spring Conference is on April 9-10 in Flatwoods, WV. This organization includes the maintenance departments of the state colleges and universities. Vendors welcome If you sell to universities and colleges, we encourage you to sponsor a booth and meet some of the greatest people in the trade.

Educational Sessions

Drain & Sewer Maintenance

How to select LEDS

Glenville State College Energy Saving Project

Chilled Water Energy Savings Study

ASHRAE Webinar Take Control: Using Analytics to Drive Building Performance - April 20, 2017 1:00 – 4:00 PM EDT

This ASHRAE Society webcast will feature industry experts who will define the importance of, and why we should strive for, better building operations through improved controls and analytics. Viewers will be able to describe key elements of controls and analytics for building operations, and identify steps required to deploy analytics in building projects, including commissioning. This program will quantify how applying best practice controls improve building performance, and will recognize the value of analytics in building operations to achieve a reduced cost and increased performance.

WV ASHRAE 2ed Annual Training Day and Product Showcase- May 11

WV ASHRAE is hosting it's annual Day of Training at Flatwoods, WV.

It will have 6 educational sessions that day. This organization is the heating and air conditioning engineers and sales representatives in the state.

Speakers include Mr. Devin Abellon, PE from Uponor speaking on Radiant Cooling.

WV ASHRAE Board Member Ray Wohlfarth will be speaking on Are Hydronics still Viable?

It is a discussion comparing hydronics to VRF and air side systems.

Sponsors and Vendors welcome If you sell or service HVAC systems, we encourage you to sponsor a booth. Contact [Ray](#) for more details.

Tentative Subjects

- DOAS Systems
- Chilled Beams
- VRF Systems
- Radiant Cooling
- Are Hydronics Still Viable
- Boiler Replacement Considerations

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