

# Feb 2017 Newsletter

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## Welcome to ASHRAE West Virginia's Total Building Performance Newsletter Visit us at our Website - [wvashrae.org](http://wvashrae.org)

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

### Upcoming Programs this MARCH



### 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 sponsored by Grant Spencer from Carrier and Jim Kusick from Genesis Air. 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)

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

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

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.

### 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](http://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.

### Other WV Expo Sessions to Consider

#### Session 45

March 22 @ 3-4 PM

Room Parlor D

Commercial Energy Code Adoption, Compliance & Enforcement in West Virginia

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**

March 23 @ 9:30 AM

Room Parlor D

**Designing Buildings for Health and Wellness: The WELL Building Standard**

Sponsored by AIA West Virginia.

Presented by USGBC WV & 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.

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Contact list developed and maintained by WV ASHRAE Chapter.*

**Our mailing address is:**  
West Virginia ASHRAE Chapter  
281 Smiley Drive  
St. Albans, WV 25177

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