

Mid-Columbia Chapter of  
the American Society of  
Heating, Refrigerating and  
Air Conditioning

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October 2008

# The

# Tumbleweed



<http://www.midcolumbia.ashraechapters.org>

## Changes Proposed for ASHRAE Standards, Guidelines

### ***Don't Miss This Month's Event***

October 7, 2008

### **Variable Refrigerant Flow Technologies**

*Details on page 3*

ATLANTA – ASHRAE is currently accepting public input on more than 35 proposed addenda to standards as well as a proposal to withdraw Standard 52.1.

Addendum to various standards, including 15 (refrigerate safety), 34 (classification of refrigerants), 55 (thermal comfort), 90.1 (energy efficiency), 62.1 (ventilation), 62.2 (residential ventilation), and 135 (BACnet) are open for review, as are seven standards and one guideline. Compete information can be found at [www.ashrae.org/publicreviews](http://www.ashrae.org/publicreviews).

Among them is the proposed withdrawal of ASHRAE Standard 52.1-1992, Gravimetric and Dust-Spot Procedures for Testing Air-Cleaning Devices Used in General Ventilation for Removing Particulate Matter.

The most important features of this standard, dust-holding capacity and air resistance, have been incorporated into Standard 52.2-2008, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size. The only unique features remaining in Standard 52.1 are the dust-spot efficiency tests – now replaced particle-size efficiency tests in 52.2 – and a renewable filter test not used by the industry for decades, according to Monroe Britt, committee chair.

Among the proposed addenda to Standard 90.1 is addendum AP, which would modify the requirements for demand

control ventilation; adding the demand controlled ventilation requirements to the simplified approach in order to keep the stringency of this path the same as the mandatory plus prescriptive path of compliance.

Also proposed is a change to addendum AF to modify energy savings requirements to recognized varied piping material pressure drops.

Six proposed addenda to Standard 62.1 are open for comment, including a proposal regarding outdoor air cleaning. Addendum 62.1c adds significant air cleaning requirements in many locations within the United States. Regarding particulate matter 2.5 micrometers and smaller, for buildings in those U.S. locations established as non-attainment for PM2.5 by the U.S. Environmental Protection Agency, 62.1c would require that the ventilation system include particle filters rated at least MERV 11 (installed between the outdoor air intake and the occupied zone). Regarding ozone air cleaning, the proposed addendum would require that the ventilation system include ozone air cleaners rated for at least 40% ozone removal efficiency.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

#### Inside this issue:

|   |   |
|---|---|
| Message from the President                        | 2 |
| This Month's Event                                | 3 |
| Program Calendar (2006-2007)<br>TBD               | 3 |
| Mid Columbia ASHRAE Board and<br>Committee Chairs | 4 |
| Future ASHRAE Meeting Dates                       | 4 |



## Message from the President

By Jay Ashbaugh

Last month we had a terrific meeting at the Red Lobster in Kennewick learning about LED lighting in freezer applications. I would like to take this opportunity to thank the staff at Red Lobster and all the members that showed up and of course a special thanks to Steve and Myra Parker for giving the presentation.

I again, would like to take this opportunity to invite anyone who is interested to join the Mid-Columbia ASHRAE board of governors. We still have an opening for the treasurer position; this is an excellent opportunity to get more involved with ASHRAE and to meet other individuals who locally work in the heating and ventilation industry.

Our Chapter Technology Transfer Chair (CTTC), Mark Simon, is going to be scheduling the chapter programs this year with an emphasis on energy efficiency design. Our October program meeting will be about VRV (variable refrigerant volume) design and applications.

ASHRAE is a great organization and we are hoping to increase our local membership numbers and help to raise research promotion funds for society. If any of you readers know someone who works in HVAC and R who is not a member and is interested, please send one of the board of governors an email or phone us and we will get them the membership forms and help them to become a member of ASHRAE.

## New Professional Certification from ASHRAE Focuses on Facility Operations and Performance

ATLANTA – Energy use in buildings can be reduced by 10 to 40 percent by improving operational strategies in buildings, according to a study by the Energy Systems Lab at Texas A & M University. A new certification program from ASHRAE helps building owners know they are hiring and retaining employees and consultants who know how to take advantage of such strategies.

The Operations and Performance Management Professional Certification (OPMP) program helps earners demonstrate their knowledge of the management of facility operations and maintenance and their impact on HVAC&R systems' performance. The program will launch at the ASHRAE Winter Meeting in Chicago in January and will be available via electronic testing centers worldwide starting in March 2009.

“With buildings using 40 percent of all energy in the United States, it is essential that their energy consumption be reduced,” says Bill Harrison, ASHRAE president “Every building, new or old, must be operated at its own optimum level. To do so, we must apply advanced knowledge and skills to building operations. ASHRAE's OPMP certification helps professionals attest that they are well prepared to manage and maintain buildings

to fully achieve reliability and their potential energy savings.”

Developed with input from APPA and GSA, the OPMP certification program is intended for those working in facilities operations, management construction, design, or consulting; and for those who have experience in facility operations and performance. By earning OPMP certification, certificants will demonstrate a well-rounded understanding and knowledge of the management of facility operations and maintenance and the impact of O&M on HVAC&R systems' performance.

Individuals must meet certain eligibility qualifications to take the exam. For more information, an exam content outline and available resources for exam preparation, please visit [www.ashrae.org/certification](http://www.ashrae.org/certification).

The fee for the OPMP program is \$275 for ASHRAE members and \$395 for non-members. For more information, please e-mail [certification@ashrae.org](mailto:certification@ashrae.org).

ASHRAE certification exams currently available are Healthcare Facility Design Professional and High-Performance Building Design Professional.



## This Month's Event

Tuesday, October 7, 2008

### Variable Refrigerant Flow Technology

Speaker: **Scott Heaton & Greg Nelson**

#### Description:

Scott Heaton and Greg Nelson will provide an introduction and overview of Variable Refrigerant Flow Technologies. They will also identify and discuss proper applications for variable refrigerant flow systems.

#### About Scott Heaton:

Scott Heaton has been employed with Daikin as a Sales Engineer since August 2008. Previously, Scott worked for Precision Hydronic Products for 5 years. Scott received an Associate's degree in Refrigerant Technology from Perry Technical Institute in Yakima, WA. Scott also received a Bachelor's degree in Communication Studies from Eastern Washington.

#### About Greg Nelson:

Greg Nelson works for Vemco, Inc in Spokane, WA as a Sales Engineer. Previously, Greg worked for Colmac Coil Manufacturing. Greg graduated from the Milwaukee School of Engineering in Milwaukee, WI.

**Location:** Round Table Pizza  
245 Torbett  
Richland, WA 99352

**When:** 12:00 noon

**Cost:** \$20.00 Lunch and Program

**RSVP:** Mark Simon at (509) 377-8713 or e-mail at  
[msimon@energy-northwest.com](mailto:msimon@energy-northwest.com)

Please RSVP by October 6, 2008 if you plan to attend.

## Program Calendar (2008–2009)

**September 9, 2008:** *LEDs—A Bright Idea for Cold Storage Applications, Steven Parker & Myra Parker*

**October 7, 2008:** *Variable Refrigerant Flow Technology, Scott Heaton & Greg Nelson*

**November 11, 2008:** *TBD, Daniel Int-Hout III, ASHRAE DL*

**December 9, 2008:** *ASHRAE Headquarters Renovation, Ron Jarnigan*

**January 13, 2009:** *Energy Efficiency, Traci Hannigan*

**February ??, 2009:** *Engineers Week Banquet*

**March 17, 2009:** *Waterside Economizers, TBD*

**April 14, 2009:** *ASHRAE President, Bill Harrison*

**May 12, 2009:** *LEED Building Energy Performance Report, Mark Cherniack*

**June ??, 2009:** *Mid-Columbia ASHRAE Golf Tournament to benefit ASHRAE/Research.*

## Mid-Columbia ASHRAE Chapter

### 2008-2009 Officers/ BOG

|  |  |
|--|--|
| President<br>(509) 735-1589                      | Jay Ashbaugh<br><a href="mailto:jpashbaugh@meierinc.com">jpashbaugh@meierinc.com</a>       |
| President-Elect<br>(509) 377-8713                | Mark Simon<br><a href="mailto:msimon@energy-northwest.com">msimon@energy-northwest.com</a> |
| Secretary<br>(509) 735-1589                      | Colin Bates<br><a href="mailto:cmbates@meierinc.com">cmbates@meierinc.com</a>              |
| Treasurer  | TBD  |
| BOG Member at Large<br>(509) 735-1589            | Dale Green<br><a href="mailto:degreen@meierinc.com">degreen@meierinc.com</a>               |
| BOG Member at Large<br>(509) 375-3710            | Bing Liu<br><a href="mailto:bing.liu@pnl.gov">bing.liu@pnl.gov</a>                         |
| BOG Member at Large                              | TBD  |
| Committee Chairs<br>Membership<br>(509) 438-9561 | Mark Simon<br><a href="mailto:msimon@energy-northwest.com">msimon@energy-northwest.com</a> |
| Research Promotion<br>(509) 735-1589             | Dale Green<br><a href="mailto:degreen@meierinc.com">degreen@meierinc.com</a>               |
| CTTC<br>(509) 377-8713                           | Mark Simon<br><a href="mailto:msimon@energy-northwest.com">msimon@energy-northwest.com</a> |
| Honors & Awards<br>(509) 438-9561                | Lois Payne<br><a href="mailto:lois_payne@rl.gov">lois_payne@rl.gov</a>                     |
| Newsletter<br>(509) 735-1589                     | Dale Green<br><a href="mailto:degreen@meierinc.com">degreen@meierinc.com</a>               |
| Historian<br>(509) 375-1020                      | Rich Evans<br><a href="mailto:richevans1@juno.com">richevans1@juno.com</a>                 |
| Web Page<br>(509) 735-1589                       | Colin Bates<br><a href="mailto:cmbates@meierinc.com">cmbates@meierinc.com</a>              |

*The Mid-Columbia Chapter of the American Society of Heating, Refrigerating and Air Conditioning Engineers was chartered in 1981 in Richland, Washington. We are part of ASHRAE Region XI and represent ASHRAE members in Eastern Washington State.*

### Help Sponsor our Website with a Business Card Ad

How would you like to place your business card in front of more than seventy eastern Washington ASHRAE members? For a low \$10 an issue, we can place your business card with company logo in a prominent location in our newsletter.

Interested??? Contact  
Mark Simon at (509) 377-8713  
[msimon@energy-northwest.com](mailto:msimon@energy-northwest.com)

### Important Notice About Future Meeting Dates

The dates for the Winter and Annual Meetings in 2008 and 2009 are:

- **2009**, Jan. 24-28 in Chicago, and June 20-24 in Louisville, KY.

