

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

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November 2013

The

Tumbleweed



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

ASHRAE, AHR Expo Return to New York City for 2014 Winter Conference

Don't Miss This Month's Event

November 12th, 2013

Seismic Restraint of Mechanical Systems

By: Nate Deibler

[Details on pages 3.](#)

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ATLANTA— New York City's iconic skyline serves as the perfect backdrop for the 2014 ASHRAE Winter Conference. With a special focus on the design, development and operation of tall buildings, the Conference's Technical Program examines themes relevant to NYC, as well as the basics of HVAC systems, refrigeration and many other topics significant to the building industry.

The 2014 Winter Conference takes place Jan. 18-22 at the New York Hilton. To register and for complete Conference information, visit www.ashrae.org/newyork.

The International Air-Conditioning, Heating, Refrigerating Expo®, held in conjunction with the Winter Conference, runs Jan. 21-23. The Expo, held at the Javits Convention Center, takes place Tuesday, Wednesday, Thursday as opposed to the traditional Monday, Tuesday, Wednesday. More information is available at www.ahrexpo.com.

More than 100 New York PDHs, AIA LUs, PDHs and LEED AP credits are available through ASHRAE Learning Institute courses and Technical Program sessions.

The Technical Program features more than 200 sessions addressing building information systems; hydronic system design; improving building performance; indoor environmental air health/IEQ; refrigeration; HVAC&R systems and equipment; and HVAC&R fundamentals and application.

Two particular tracks of note are Tall Buildings, which examines opportunities in the design, development and operation of tall and super-tall buildings, and International Design, addressing innovative design strategies to meet environmental elements, geography and cultures.

Also, choose from 23 Professional Development Seminars and Short Courses to help you stay current on HVAC trends. The ASHRAE Learning Institute offers new updates to Standards 90.1 and 62.1, in addition to 11 new courses that include Standard 55, building enclosure commissioning, electric rates and regulations, health care facilities, building energy audits and ground source heat pumps. ALI courses are approved for renewal of

professional engineer and professional architect licenses, as well as for industry certification programs. For a list of all courses, visit www.ashrae.org/newyorkcourses.

Additionally, ASHRAE offers a special administration of all six certification examinations on Thursday, Jan. 23: Building Energy Assessment Professional (BEAP), Building Energy Modeling Professional (BEMP), Commissioning Process Management Professional (CPMP), High-Performance Building Design Professional (HBDP), Healthcare Facility Design Professional (HFDP) and Operations & Performance Management Professional (OPMP). More information on each certification can be found at www.ashrae.org/certification.

ASHRAE Conference technical tours give you a first-hand look at technology developed by members to further the industry. Tours include the Tishman Speyer Rockefeller Center central refrigeration plant, building management system and ice storage facility; the cogeneration project at One Penn Plaza; and the cooling system of the New York Hilton, to name just a few.

The Conference's Plenary will feature Mark Sanborn, president of Sanborn & Associates, Inc., an idea lab for leadership development. In addition to his experience leading at a local and national level, Sanborn has written or co-authored eight books, and is the author of more than two dozen videos and audio training programs on leadership, change, teamwork and customer service. He has presented over 2,400 speeches and seminars in every state and a dozen countries. The Plenary takes place on Saturday, Jan. 18.



Message from the President

By Jian Zhang

Hope you all have enjoyed Ron Jarnagin's presentation on "ASHRAE's Building Energy Labeling Program". If you missed it or look for more information, please check ASHRAE Building EQ website <http://www.buildingenergyquotient.org/>.

The holiday season is approaching and we are open to good ideas to celebrate the holidays with you together at our December program meeting. Our December meeting is usually a mix of social and technical event. Please feel free to contact our CTC chair Derek Archer with suggestions.

Registration to the ASHRAE's 2014 Winter Conference on Jan. 18-22 2014 in New York City has been open for a while. If you plan to attend, please register at ASHRAE website and book your hotel early. Also, the AHR Expo Jan. 21-23 would be a

great opportunity to check the latest from the industry.

As mentioned in my previous month messages, the Mid-Columbia Chapter invites you to attend the Region XI Chapters Regional Conference (CRC) from May 7 - 10th, 2014. The CRC Organizing Committee is busy in preparing its meeting program. For volunteering, please contact us. We will soon set up registration link and CRC webpage to provide more information.

And last, Tuesday, November 12th, Nate Deibler from Mason Engineering will give us a presentation on seismic restraint of mechanical systems. Mr. Deibler is a member of TC 2.7 Seismic Restraint committee and SPC 171. Hope to see you all!

ASHRAE Publishes 2013 Version of IAQ Standard

ATLANTA – The 2013 version of ASHRAE's indoor air quality standard contains several revisions to help users better meet its requirements.

Newly published, ANSI/ASHRAE Standard 62.1-2013, *Ventilation for Acceptable Indoor Air Quality*, sets minimum ventilation rates and other requirements for commercial and institutional buildings.

The 2013 standard combines the 2010 standard and 10 published addenda to that edition, providing an easy-to-use consolidated standard. Specific information on the contents of each addendum and approval dates for each addendum are included in Informative Appendix J at the end of the standard.

"The 2013 version of Standard 62.1 continues the trend of increasing clarity while adding flexibility," Roger Hedrick, Standard 62.1 committee chair, said. "These changes will allow designers and building operators to meet the requirements of the standard and provide adequate ventilation airflow to occupants while reducing excess ventilation and the associated energy consumption."

The 2013 edition of the standard revises and improves the standard in several ways. A number of changes remove inconsistencies within the standard and improve clarity. Significant changes include:

- Table 6-2, Zone Air Distribution Effectiveness is modified to increase the ventilation effectiveness of underfloor air distribution systems that meet certain conditions.

- Requirements for the quality of water used in humidification systems are modified and clarified.
- Building level pressurization requirements were clarified, including adding a definition of "exfiltration."
- A performance alternative to the prescriptive exhaust rates is added. This approach differs from the Indoor Air Quality Procedure, the existing performance-based method for setting supply ventilation rates, in that monitoring of the concentrations of contaminants of concern is required and provides the basis for control of exhaust flow rates.
- Some changes to the ventilation rates and space types in Table 6-1 are made. These add refrigerated warehouses and change the ventilation rate for sports related spaces to include a per occupant component which then allows the use of demand controlled ventilation in these spaces.
- The filtration requirement on air entering wetted cooling coils has been modified to change the MERV rating from 6 to 8. This change will reduce potential for particulate deposition on the coils that could lead to biological or other contamination on the coils.
- Toilet exhaust air that is cleaned to Class 1 may be recirculated.

This Month's Event

Nate Deibler

Nate graduated with a Mechanical Engineering degree from LeTourneau University in 2002 and started working as a Project Engineer at Mason Industries in 2003. He has worked on seismic anchorage designs for vibration isolated and rigidly mounted equipment along with seismic bracing mark-ups for MEP systems. After 1 ½ years, he transitioned to Field Engineer where he used his knowledge of codes and specs to assist contractors with special designs and calculations. In 2010, he was asked to join Mason's sales rep in Colorado as a Sales Engineer. There he had the opportunity to be involved in the complete sales cycle of the vibration isolation, flexible connectors and seismic design for several hospitals and data centers. In July of this year, he was asked to come back to Mason as a Sales Manager for the Western Region where he now uses his experience in Colorado to train and assist reps and their contractors and engineers with projects and code related issues.

Title: Seismic Restraint of Mechanical Systems

This presentation describes how mechanical systems are seismically braced. The contents covered in this presentation are: Specifications, Building Codes, Anchor Connection Types, Housekeeping Pads, Pipe and Duct bracing, Seismic Restraint of Floor Mounted and suspended equipment. Testing of Seismic Restraint and equipment is also covered. Illustrations and pictures from the ASHRAE publication, "Practical Guide to Seismic Restraint" will also be shown and discussed.

WHEN: Tuesday November 12th, 2013

TIME: 6:00pm Social, 6:30pm Dinner and Presentation

Cost: \$25 Buffet Dinner. No-Host Cocktails.

WHERE: O'Callahan's (At Shilo Inn)

50 Comstock Street

Richland, WA 99336

RSVP to Derek Archer dlarcher@meierinc.com

Program Calendar (2013–2014)

September 17, 2013: Chris Lawrence - Active Chilled Beams

October 8, 2013: Ron Jarnagin ASHRAE's Building Energy Labeling Program—A First Look

November 12, 2013: Nate Deibler, PE—Seismic Restraint of Mechanical Systems

December 10, 2013: TBD

January 14, 2014: : TBD

February 2014: Engineers Week Banquet

March 11, 2014: Steve Kinkel, Data Center HVAC Design Standards

April 9, 2013: TBD

May 2013: ASHRAE Region XI Chapter Regional Conference. Richland, WA. Details To Be Announced.

June 2014: Mid-Columbia ASHRAE Golf Tournament to benefit ASHRAE Research, Location and date TBD



Mid-Columbia ASHRAE Chapter

2013-2014 Officers/ BOG

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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.

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Interested??? Contact
Derek Archer at (509) 737-6982
dlarcher@meierinc.com

Important Notice About Future Meeting Dates

Registration is now open for ASHRAE's 2014 Winter Conference in New York, NY, January 18-22, 2014 at the New York Hilton.

2014 Region XI CRC coming up May 1st -3rd located at the Red Lion Hotel in Richland, WA. Details to be announced.

Mid Columbia ASHRAE Golf Tournament June 2014. Details to be announced

