



Don't Miss This Month's Event

January 16, 2007

The Role of Controls for Acceptable IAQ

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Mid-Columbia Chapter's Christmas Dinner Meeting

The Mid-Columbia Chapter of ASHRAE held its annual Christmas dinner on December 12 at the Shilo Inn in Richland. The event started with a social half hour and a fantastic fully catered dinner. The current Mid-Columbia Chapter president, Bing Liu, presented Rich Evans with the ASHRAE Life Time Achievement Award after donating 50 years of service to the organization. Rich was a founding member of the local Mid-Columbia Chapter of ASHRAE and has continued to contribute since the beginning.

Gil Hibbs, Mid Columbia ASHRAE's Research and Promotion Chair, recognized the chapter members for their donations to help our chapter receive the full circle award for the third straight year. Gil also made a point to remind all members that the annual Mid-Columbia ASHRAE golf tournament is going to happen again this year and all interested members should be sure leave Thursday June 7, 2007 open for a round of golf.

Ron Jarnagin a long time ASHRAE and a Mid-Columbia Chapter ASHRAE member, was the main speaker for the dinner and gave an exceptional presentation on ASHRAE's journey to sustainability titled "From Blue to Green." The presentation was based on the evolution of the ASHRAE organization that is happening right now, moving the society to more sustainable design standards, making this a very exciting time to be involved with ASHRAE. ASHRAE was founded in 1894, based on the objective and technical expertise of its members being applied for the good of man kind. ASHRAE is working on creating a sustainability roadmap and is teamed with many other organizations to make sustainable building design a standard.



We want to thank all who made it out to the Christmas dinner; it made for a very fun and interesting event.

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Chapter President Bing Liu presented the 50-year membership certificate to Rich Evans.



Chapter President Bing Liu

Message from the President

Happy New Year!

I hope you all had a relaxing and enjoyable holiday season. Last month, we had a very delightful Christmas dinner party at the Shilo Inn Hotel. Over 20 ASHRAE members and their spouses and guests gathered together to celebrate this special time of the year. Ron Jarnagin, staff scientist at PNNL and long-time ASHRAE member, presented ASHRAE's path towards sustainability. I presented a Lifetime Membership Certificate to Rich Evans. Rich is another long-time ASHRAE member, yeah, he has a 50 year membership with ASHRAE and a founding member of Mid-Columbia Chapter.

The Christmas dinner meeting was also a Research Promotion (RP) Night. The Research Promotion Chair, Gil Hibbs raised RP funds by selling the raffle tickets. Guess who won the prize? It was me! I donated my prize to ASHRAE's RP since I strongly believe in the benefits to the society through ASHRAE's research projects. I am also pleased to report that our chapter made a Full Circle again this year. This is the third year in a row that our chapter has made a Full Circle. As you know, it means each of the chapter officers, RP Chair and other BOG

members committed to donate \$100 to ASHRAE RP funds.

This month, our first program in 2007 will feature a presentation by ASHRAE's Distinguished Lecturer Ken Peterson at the Clarion Hotel. Mr. Peterson, an active ASHRAE member and currently ASHRAE's President-Elect, has over twenty years of experience working in consulting engineering. His lecture will emphasize the role of controls in providing system compliance with Standard 62.1. I guarantee you this will be a high quality program, so mark your calendar for January 16!

Lastly, the new membership roster of Mid Columbia Chapter has been published. If you are a member of Mid-Columbia Chapter, you can get a copy for free. Special thanks to Carl Brenneise and Wei Jiang, who took a lot of time working on the new roster.

I'll look forward to seeing you at our January dinner meeting.

Bing Liu



Major Study of Aircraft Cabin Air Quality Launched by ASHRAE

ATLANTA - Good afternoon and thank you for flying with us. We want to make sure you are as comfortable as possible during the flight, so please let us know - how's the air quality? Is the temperature ok? Do we need to adjust the lighting? Thanks again for flying Indoor Comfort Airlines.

This is the message millions of U.S. and international airline passengers could be hearing in the near future thanks to a study funded by ASHRAE and conducted by Battelle, a Columbus, Ohio-based global services and technology enterprise.

The research project will examine the link between aircraft cabin air and health symptoms and discomfort experienced by passengers and crew members. "The aircraft cabin is a challenging microenvironment for maintaining the health, comfort and well-being of passengers and crew," said Jeff Myers, principal investigator for Battelle. "Space is limited, conditions can feel cramped, the outside environment is

extreme, and travelers may experience anxiety over loss of control over their situation and environment. Through this study, we will determine the causes of passenger and crew discomfort and use that information to make flights more comfortable."

More than 600 million passengers fly U.S. carriers each year, with thousands of crew members spending much of their working time in densely packed airliner cabins. During flights, passengers and crew can experience noise, reduced atmospheric pressure, poor lighting, vibration, low relative humidity, variable temperature and potential air quality degradation.

The study, set to begin early this year, will be carried out on several international and domestic commercial airlines. It also has the support of the Federal Aviation Administration's Air Transportation Center of Excellence for Airliner Cabin Environment Research.

We are glad to report that Jay Ashbaugh is our chapter nominee for the ASHRAE Young Engineer award !!

Express Membership Application is available at www.ashrae.org.

Join the 50,000 ASHRAE members advancing their careers through an ASHRAE membership.



January Monthly Meeting - ASHRAE Distinguished Lecturer

The Role of Controls for Acceptable IAQ

Kent Peterson, P.E., Fellow ASHRAE ASHRAE Distinguished Lecturer

Controls play an important role in HVAC system compliance with ASHRAE Standard 62 "Ventilation for Acceptable Indoor Air Quality". The selection and operation of ventilation controls for recirculation systems must consider many factors to be effective in maintaining air quality. These factors include the control of temperature, humidity, source contaminants and ventilation air. This lecture emphasizes the role of controls in providing system compliance with Standard 62.1 including:



- * Control component selection and maintenance considerations
- * The role of humidity control to minimize growth of allergenic or pathogenic organisms
- * Ventilation Rate Procedure control functions
- * Demand controlled ventilation

About Mr. Peterson:

Mr. Peterson has been involved in all aspects of consulting engineering services and has a reputation for providing creative design solutions. He has over twenty years of experience working in consulting engineering. He is the Chief Engineer/Vice President and a founding principal of P2S Engineering in Long Beach, California. Mr. Peterson is an active member of ASHRAE. He is currently the President-Elect of ASHRAE.

Where: Clarion Hotel Conference Room
1515 George Washington Way, Richland, Washington

When: Tuesday, January 16, 2007
5:30 PM: Social Hour
6:00 PM: Buffet Dinner (let Lois know if a vegetarian meal is preferred)
7:00 PM: Presentation

Cost: \$20 for dinner and program; Program attendance is free for students.

RSVP: Lois Payne at (509) 373-2259 or lois.payne@rl.gov
No Later Than 3:00 PM, Thursday, January 11, 2007

*A reservation made is a reservation paid.

Program Calendar (2006—2007)

September 12, 2006: *25th Anniversary Cruise*

October 10, 2006: *National CAD Standard Basics, Carl Brenneise, P.E.*

November 14, 2006: *Tour of the Integrated Energy Operations Center (IEOC)*

December 12, 2006: *Moving from Blue to Green: ASHRAE's Journey to Sustainability, Ron Jarnagin, PNNL*

January 16, 2007:
Role of Controls for Acceptable IAQ, Kent Peterson, ASHRAE Distinguished Lecturer

February 23, 2007:
Engineers' Week Banquet

March 13, 2007:
Green Design and Sustainability, E. Mitchell Swann, ASHRAE Distinguished Lecturer

April 10, 2007:
Boilers, Ray Garner

April 18, 2007:
Indoor Air Quality, Satellite Broadcast

April 19, 2007:
Workshop on Commissioning

May 8, 2007:
Underfloor Cooling Distribution, VEMCO/Liebert

May 9-16, 2007: *Region XI CRC*

June 12, 2007:
Golf Tournament for RP Fundraising

Mid-Columbia ASHRAE Chapter

2006-2007 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.

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
Wei Jiang at (509) 372-6256
Wei.jiang@pnl.gov

Important Notice About Future Meeting Dates

The dates for the Winter and Annual Meetings in 2007, 2008 and 2009 are:

- 2007, Jan. 27–31 in Dallas, and June 23-27 in Long Beach, Calif.;
- 2008, Jan. 19–23 in New York, and June 21-25 in Salt Lake City, Utah.
- 2009, Jan. 24-28 in Chicago, and June 20-24 in Louisville, KY.