

The



Tumbleweed

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

Don't Miss This Month's Event

Tuesday, December 13,
2005

Theresa Bergsman

***"PNNL's Plans for the
Research Campus of the
Future: Life with DOE
after Hanford"***

Details on page 3

Evans Lizardos presented a lecture on "Innovative Airside Systems" at the November meeting

On November 9, 2005, Mr. Evans Lizardos, an ASHRAE Distinguished Lecturer, presented a lecture on "Innovative Airside Systems Designed to Conform to ASHRAE 90.1 and Improve IAQ" during the dinner meeting. The presentation was of a system sizing method to modify existing HVAC equipment and/or design a new HVAC system to prevent mold growth in buildings which will occur whenever the relative humidity in the space exceeds 70%. The new or modified de-

signs use pre-conditioned code required minimum ventilation air to remove the latent load from the space and allow for only sensible cooling to maintain space temperature conditions. The sensible cooling portion of the cycle is a hybrid of reheat that allows for the space to never exceed a relative humidity of 60%.

Trip to Beijing, China



On behalf of ASHRAE, Ron Jarnagin and Bing Liu, both of Pacific Northwest National Laboratory, were invited by the Chinese Association of Refrigeration (CAR) to present a workshop of HVAC&R Standard Seminar for Environment and Energy Saving Between U.S. and China in Beijing on November 11, 2005. Ron made presentations on the process for developing energy standards for both buildings and HVAC equipment in the U.S.

Bing provided an in-depth overview of both the ASHRAE process for setting efficiency levels as well as the federal regulatory process conducted by the U.S. Department of Energy. Over 70 professionals from government, industry, and academia attended the workshop. The presentations spanned the entire day, and the interaction with the audience was spirited. The audience especially showed strong interest in learning more about the ASHRAE Energy Standard 90.1 as introduced by the presenters.

The day after the workshop, Ron and Bing toured the Building Energy Research Center at Tsinghua University where they had the opportunity to view a newly completed state-of-the-art building intended to demonstrate advanced energy technologies in daily use on a University campus. While meeting with some local ASHRAE members in the University, Ron made a presentation to the faculty and students by introducing ASHRAE to potential new members.

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Chapter President Dale Green

Message from the President

Wow how time flies! Here it is December already. Our meeting this month will be held at the Red Lion Hanford House in Richland. In the past, the December Meeting has been open to spouses or significant others. This year is no exception. This month's meeting will be our Christmas social event. Please feel free to bring a guest. Our presenter will be Theresa Bergsman, Program Manager for the PNNL's Campus Development. Ms. Bergsman will give us an update on the Battelle Research Campus of the Future.

In addition, January 23-25, 2006 is the AHR EXPO in Chicago, Illinois. This event is sponsored by ASHRAE and ARI. There will be over 1,800 exhibitors showing their product lines as well as educational opportunities. I have coupons for free registration to the event. Please contact me if you are planning on going to the EXPO so I can get

you a coupon.

Topics for upcoming meetings include Building Commissioning, a talk by the ASHRAE National President, and Design Specifications. We are trying to set up tours of a food processing plant and the Integrated Energy Operations Complex at PNNL. Mark your calendar now, you don't want to miss any of them. We are also making plans for the second annual Mid-Columbia ASHRAE Golf Tournament. Proceeds from the tournament will go to ASHRAE Research. The tournament will be in June. Start making plans to attend and be thinking about putting your team together.

I look forward to seeing you at the December Meeting.

Dale

News You Can Use

Tech Council News from HQ

This is the first of Tech Council's quarterly briefings. You will find information from all the committees that report to ASHRAE's Technology Council. Our goal is to make the work of the technical side of ASHRAE open to all ASHRAE members.

ASHRAE and ACCA have agreed to publish a load calculation standard for non-residential applications. Both ASHRAE and ACCA had independently been working on such a standard and had filed notice with ANSI of their intent to do so. The intent of the standard is not to set exact load calculation procedures but to provide criteria for the evaluation of load calculation procedures for various applications. StdC is working to develop a ventilation code proposal for use by the various code bodies. This proposal would be designed to be referenced in codes in lieu of Std 62.1 in its entirety.

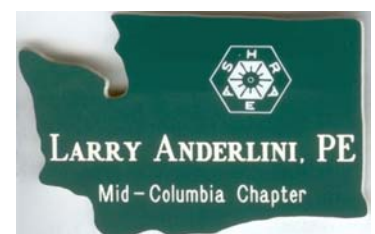
A Handbook Content and Structure Improvement Workshop was conducted with a focus on improving the review and revision process of all handbook volumes so that all handbook volumes become increasingly clear, more engaging and more useful. 58 of 98 Technical Committees (TCs),

Task Groups (TGs) and Technical Resource Groups (TRGs) maintain active websites accessible through ashrae.org to communicate with ASHRAE members. Our goal is that all 98 will be up in July 2006. Look at the frequently asked question (FAQ) database on ashrae.org for answers to 87 questions, 60 of which are new. On the average, 15 technical inquiries are received daily.

The ASHRAE Strategic Plan for Research for the next 5 years was approved. The plan is based on five broad, far reaching Research Opportunity Themes: Energy and Resources, Indoor Environmental Quality, Tools and Applications, Equipment, Components and Materials, and Education and Outreach. A research project was approved for Oklahoma State University to develop "Application Manual for Non-Residential Load Calculations". TC5.12 reported they do not plan to conduct research on the effectiveness of 7.5 cfm/student in lieu of 15 cfm/student in light of current research indicating that 15 cfm/person may be too low. However, the appropriate ventilation rate for schools is to be addressed by a workshop that examines the research status and needs regarding the health and other effects of ventilation rates.

Badges for Mid-Columbia Available

ASHRAE Name Tags in the shape of Washington State are available for the Mid-Columbia Chapter's members to order. The picture on the right shows what the name tag looks like. The cost is \$10.00 a name tag.



This Month's Event

Tuesday, December 13, 2005

ASHRAE Mid Columbia Chapter and IEEE Richland Power Engineering Chapter

Jointly Present Ms. Theresa Bergsman and her presentation:

"PNNL's Plans for the Research Campus of the Future: Life with DOE after Hanford"

Theresa Bergsman, Program Manager for PNNL's Campus Development, is part of the team responsible for securing the millions of dollars necessary to fund and build 500,000 square feet of replacement laboratory space by 2009. They also must find sponsorship for and build an additional 300,000 square feet of new lab and office space to accommodate business growth ... by 2009 as well.



Come to this Mid Columbia ASHRAE and Richland Section of IEEE Christmas Party and bring your spouse, friend, or a date. ASHRAE members who attended the November meeting can bring their spouse, friend or a date for free.

Location: Red Lion Hotel Hanford House
802 George Washington Way
Richland, Washington 99352

Time and Schedule: 6:00 pm Social
6:30 pm Dinner
7:30 pm Meeting/Presentation

Menu Choices:

Salmon Filet with lemon dill
London Broil with mushroom demi-glaze
Chick Oscar with crab and asparagus
Vegetarian Plate

Cost: \$25.00 per person* (spouse/domestic partner is free if you paid to attend the ASHRAE November meeting.)

RSVP: Bing Liu at (509)375-3710 or bing.liu@pnl.gov by Dec 8, 2005

Please make your menu choice when RSVP.

*A reservation made is a reservation paid.

Program Calendar (2005–2006)

2005

Sep 13, 2005: Condenser Water Heat Recovery, Julian de Bullet, McQuay International

Oct 18, 2005: Global Warming, Victor Goldschmidt, ASHRAE Distinguished Lecturer

Oct 26, 2005: USGBC LEED and Green Building Workshop

Nov 9, 2005: Innovative Air-side Systems Designed to Conform to ASHRAE 90.1 and Improve IAQ, Evans Lizardos, ASHRAE Distinguished Lecturer

Dec 13, 2005: Battelle Research Campus Update, Theresa Bergsman, PNNL Campus Development

2006

Jan 10, 2006: Building commissioning and retro-commissioning, Janice Peterson, Green Building Services in Portland

Feb xx, 2006: National Engineer Week Banquet

March 15, 2006: ASHRAE President Lee Burgett will visit us. Specifications Round Table, Traci Hanegan

April 11, 2006: Tour of Milan Food Processing Plant

April 19, 2006: ASHRAE Satellite Broadcast on Green Buildings

May 16, 2006: Tour of Integrated Energy Operations Center (IEOC) at PNNL

Mid-Columbia ASHRAE Chapter

2005-2006 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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The Environmental Health Committee is developing a project work statement to request an ASHRAE Special Project. The proposed project is related to a critical interdisciplinary scientific review of research that has been or is being conducted on the effect of ventilation rates on health in multiple types of indoor environments, including offices, schools, residences and day care. The purpose of the project will be to determine the current state of knowledge to develop priorities for additional research that may be needed. A position document on Environmental Tobacco Smoke (ETS) has been approved by the Board of Directors. Look for this on www.ashrae.org.

The Refrigeration Committee is working with TC10.3 to include information on CO2 as a refrigerant in an existing chapter of the 2006 Refrigeration Handbook Volume. The committee has conducted an initial review of the Ammonia as a Refrigerant Position Document. It has also conducted an initial review of the Ozone Depleting Substances Position Document. Some of the current recommendations are outdated and require revision. *We ask that you look this over and give us feedback. Please direct any questions on any topic or feedback on this newsletter to Hugh McMillan, Vice-Chair, Tech Council at hugh_mc@mail.ashrae.org.*

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.

Jay Ashbaugh at (509) 735-1589 (jpashbaugh@meierinc.com)

Future ASHRAE Meeting Dates

The dates for the 2006 and 2007 Winter Meetings are incorrect on some ASHRAE membership cards.

The correct dates for the Winter and Annual Meetings are:

- **2006**, Jan. 21-25 in Chicago, and June 24-28 in Quebec City, QC, Canada;
- **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.