

January 2006

HAPPY NEW YEAR TO
ALL!

The



Tumbleweed

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

Don't Miss This Month's Event

Tuesday, January 10, 2006

Janice Peterson
"Building Commissioning and Retro-Commissioning"

Details on page 3

Theresa Bergsman of PNNL described PNNL's Plans for the Research Campus of the Future

On December 13, 2005, at the annual Christmas gathering for both ASHRAE Mid-Columbia and IEEE Richland Power Engineering Chapter members, Ms. Theresa Bergsman gave an interesting peek into "PNNL's Plans for the Research Campus of the Future: Life with DOE after Hanford". Over thirty people were in attendance for an enjoyable evening. The Red Lion hotel served an excellent meal which was followed by two speakers including the ASHRAE Region XI DRC Mr. Bill Dean who was visiting the chapter. He spoke briefly about the region's activities and how he is always excited to come to Tri-Cities. Ms. Bergsman then spoke about the plans to replace PNNL laboratories' space from the 300 Area to a centralized PNNL campus as well as the relevant budget and schedule information. Ms. Bergsman is the Program

manager for the PNNL Campus Development project, responsible for securing the funds to build the facilities. A combination of Federal, State and private funds will be used to finance the project work that will include a federal Physical Sciences facility, an addition to the Battelle-owned Life Sciences Facility, a Computational Sciences Facility and a Biological Sciences Facility. Design work is expected to commence on the new buildings in the New Year; bids were being submitted and due by Christmas and \$18 million just passed through Congress for this project. The construction schedule shows a completion date in 2009 to ensure the labs have been moved to the new buildings in coordination with the River Corridor Cleanup project.

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ASHRAE Region XI DRC, Mr. Bill Dean (seated in the far left), was visiting from Saskatoon, Canada. He attended the chapter meeting and visited the staff at Meier Enterprises on December 13, 2005 to talk to young engineers about the benefits of joining ASHRAE and how ASHRAE research can help develop new tools and software for their use.





Chapter President Dale Green

Message from the President

Wow how time flies! Here it is the New Year already!! I certainly hope you all got to spend your holidays with your family and friends. Welcome to 2006 which promises to be an eventful year for ASHRAE as well as all of us in the Mid-Columbia chapter.

Our meeting this month will be held at the Richland library on January 10th 2006. The talk will be on Building Commissioning.

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 in 2006 include 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.

Here is wishing you all a very happy and prosperous New Year and I look forward to seeing you at the January Meeting.

Dale

News You Can Use

Tech Council News from HQ

This is the second 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. 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.

How can you tell what is the latest version of any of Code-Intended continuous maintenance standards? Under the new policy of the Standards Committee, you will always know when these documents are updated. Since July 1, the code-intended standards under continuous maintenance have been on a three year republication schedule. The next fully published version of Standards 15, 34, 52.2, 62.1, 62.2, 90.1, 90.2 and 140 will occur in 2007. Next March, a supplement of all addenda approved since the 2004 versions were released will be published. These addenda will become effective with the supplement date of approval by the ASHRAE BOD and ANSI. This means you can expect something to be coming out on these standards every 18 months.

We are striving to make the business of keeping up with code-intended standards more predictable and less costly for our Members and the public. TAC is considering a proposal to form a new Task Group (TG) that is concerned with all exergetic aspects of energy and power consumption of building comfort and service systems and equipment, assessment of their impact on the environment, and development of analysis techniques, methodologies and solutions for environmentally safer low-exergy buildings. Exergy is defined by ASHRAE as an expression for the loss of available energy due to the creation of entropy in irreversible systems or processes. The energy loss in a system or component is determined by multiplying the absolute temperature of the surroundings by the entropy increase.

This TG will help pave a road for a more comprehensive set of scientific and technical actions in order to further develop a more environmentally safe building technology and new HVAC systems while the commitment of ASHRAE towards sustainability is facilitated.

Continued on Page 4



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, January 10, 2006

Janice Peterson, PE, Senior Associate

"Real World Adventures in Retro-Commissioning"



At her presentation, Janice will talk about the retro-commissioning process as they used in the existing building commissioning program at Portland General Electric, also from a LEED perspective and then some info on cost/benefit and go on to several case studies that she has first hand experience with.

Janice Peterson is a registered mechanical engineer with over 15 years experience in building commissioning, energy modeling, and heating, air conditioning and refrigeration systems design.

As senior project engineer for Green Building Services, Janice oversees and delivers new construction commissioning as well as retro commissioning services. Janice also performs energy modeling on facilities, advises clients on energy efficient technologies for HVAC and lighting systems and develops building commissioning plans and reports. Janice is a member of ASHRAE Technical Committee 7.9, Building Commissioning and Technical Committee 7.7, System Energy Utilization.

Location: Richland Library, Doris Roberts Gallery, 955 Northgate Drive, Richland

Date: Tuesday, Jan 10, 2006

Time 6:00 - 6:30 pm Social Time
6:30 - 7:00 pm Dinner
7:00 - 8:00 pm Program

Cost: \$12.00 Dinner and Program (Pizza); \$3.00 Program Only
Program attendance is free for students. Student dinner cost is \$7.00

RSVP: Dale Green at (509) 735-1589 or degreen@meierinc.com
No Later Than 4:00 PM, Monday, Jan 9, 2006

*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

President (509) 735-1589	Dale Green degreen@meierinc.com
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Student Activities (509) 627-2272	Kaleem Ullah mkaleem.ullah@verizon.net
Honors & Awards (509) 375-5989	Michele Friedrich mfriedrich@pnl.gov
Research Promotion (509) 783-1625	Gil Hibbs gilh@scm-ae.com



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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A color brochure summarizing ASHRAE's 2005-2010 Research Strategic Plan is now posted on the "Research" page of ashrae.org. The brochure details all five Opportunity themes, 28 goals associated with the five themes and a partial listing of potential project topics that may help address these goals. The strategic plan is primarily intended to help guide the 98 TCs within ASHRAE towards achieving broad and ambitious goals set by the Society as a whole for research. How well a particular topic supports the strategic plan will count towards forty-five percent of the review criteria used to evaluate all research topics proposed by the TCs. Find the Research Strategic Plan at: http://www.ashrae.org/content/ASHRAE/ASHRAE/ArticleAltFormat/2005928112649_347.pdf

REF has posted two documents to our website: "Tips on Hosting a Successful Refrigeration Focused ASHRAE Chapter Meeting" and "Training in Refrigeration". The first was written to provide chapter level people help on setting up a refrigeration focused chapter meeting that would draw more than 3 people by giving contacts at other organizations and a list of timely topics. The latter document is a continuously updated list of all North American based training programs on industrial (ammonia) refrigeration. REF intends to keep both up-to-date and promote their use at regional and local levels.

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.