

The



Tumbleweed

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

Don't Miss This Month's Event

Tuesday, October 18

Membership Promotion Night

**ASHRAE Distinguished
Lecturer**

**Victor Goldschmidt
"Global Warming"**

Details on page 3

Ron Jarnagin and Bing Liu make a presentation at the Inland Empire Chapter meeting

News from the Inland Empire Chapter



On September 20, 2005, Ron Jarnagin and Bing Liu from the US Department of Energy's Pacific Northwest National Laboratory in Richland made a great presentation at the Inland Empire Chapter of the ASHRAE in Spokane. Ron was the Chair of the committee that authored ASHRAE's hit publication "[Advanced Energy Design Guide for Small Office Buildings](#)". Bing was the engineer that performed the energy modeling and analysis that the recommendations in the book are based upon. The AEDG has quickly become the most popular ASHRAE publication ever.

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Local September Event: Presentation on Heat Recovery Chiller Design

Julian de Bullet, Director of Industry Relations with McQuay International and an ASHRAE Distinguished Lecturer, gave a technical presentation on "Heat Recovery Chiller Design" at the Meier Enterprises office on September 13th. He described the background related to condenser water heat recovery system design including lessons learned from the 1980's which led to changes in the ARI-98 Standard and the requirement in ASHRAE Standard 90.1 for a condenser water heat recovery system on large projects. The recommended approach now is to do more analysis of both the heat source and heat sink and to evaluate both full load and an-

nual load. He gave an example of a successful heat recovery system designed to recover heat from the condenser water loop and preheat the hot water loop. It is sized at 3 gpm/Ton with a 10° F temperature difference. Another system was installed in a 480,000 square foot Acute Care Hospital with a 1600 Ton cooling load. The system saved \$108,000 per year and had a pay back of less than 2 years. Other facilities to consider for heat recovery systems include schools, hospitals, military bases, and resorts. Software for sizing these systems are also available.



Chapter President Dale Green

Message from the President

The first meeting of the Mid-Columbia Chapter of ASHRAE has come and gone. We had a great turnout to learn about condenser water heat recovery. Thanks to all of you who attended. Thanks to our programs chair, Bing Liu, our chapter will host another ASHRAE Distinguished Lecturer again in October.

The October meeting will also be designated for Membership Promotion. Kevin Marple (ASHRAE RVC) will give a short presentation on ASHRAE Membership. Thanks to Michele for setting this up. I encourage every member of the Mid-Columbia Chapter to attend this meeting and to bring a friend or co-worker that is not currently a member. ASHRAE is a volunteer organization. The more "volunteers" we have the less each of

us has to do to keep this chapter moving forward.

Our programs for the rest of the year are shaping up. Mark the dates on your calendar and make plans to attend them all.

I look forward to seeing you at the October Meeting.

Dale

The Mid-Columbia Chapter had the highest Presidential Award of Excellence (PAOE) point total in our region. It also placed in the top five in three of the four National categories for 2004-2005 Resource Promotion.



Membership Promotion Night on October 18, 2005 and Other News You Can Use

Remember that the upcoming program event in October is a membership promotion night, which means you may bring a guest to attend the dinner and hear the talk on "Global Warming" at half the price. The guest will also have the opportunity to hear the Regional Vice-Chair, Mr. Kevin Marple, give a short presentation on the benefits of becoming a member of ASHRAE.

Other NEWS you can use:

The ASHRAE Handbook CD+ 2002-2005 is the Society's first four-volume Handbook CD with electronic enhancements. The CD+ contains all Handbook chapters with the latest updates in a searchable electronic format, featuring interactive and supplemental tools. These tools include:

Spreadsheets demonstrating the radiant time series (RTS) method of load calculation;

Greatly expanded climatic design data tables from the 2005 Handbook, Fundamentals;

NAIMA 3E Plus software for calculating insulation thickness; A desiccant wheel performance estimator; Video clips of kitchen hood airflows; Equipment animations; Interactive charts and spreadsheets; Supplemental examples and text; More links to organizations and data; Color graphics for improved understanding, surpassing the presentation possible in the black-and-white print volumes; Links to commercial resources that allow users to source products and services related to the topic of each chapter.

The CD+ contains PDF files of chapters in all four current volumes: 2005 Fundamentals; 2004 HVAC Systems and Equipment; 2003 HVAC Applications; and 2002 Refrigeration. The 3,100+

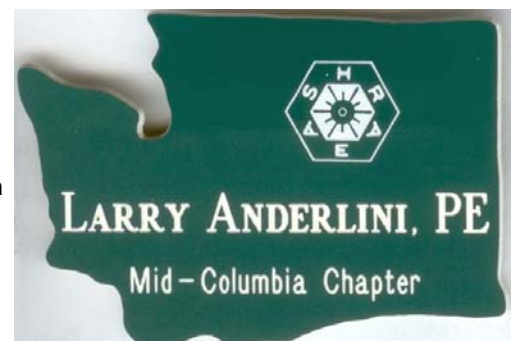
Badges for Mid-Columbia Available



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.

Interested??? Contact
Michele Friedrich at (509) 375-5989

mfriedrich@pnl.gov



This Month's Event

Tuesday, October 18

Membership Promotion Night

ASHRAE Distinguished Lecturer

Victor Goldschmidt, Professor Emeritus, Purdue University

Global Warming

Two different perspectives prevail in the culpability of refrigerants in ozone depletion, and of "greenhouse gases" in general, in global warming. Following a brief overview of ozone depletion and implications of related data, the process leading to "predictive" models for global warming will be highlighted. Data will be shown suggesting recent increases in global surface temperatures and their relationship to concentrations of carbon dioxide. Weaknesses and uncertainties in the global models, and consideration of additional data will suggest that the "jury is not out" and that the postulated culpability stands on uncertain grounds.



- Location:** Battelle Environmental Molecular Sciences Laboratory (EMSL)
Conference 1075, 3335 Q Avenue, Richland WA
(link to map: <http://www.emsl.pnl.gov/images/airportmap1.gif>)
- Date:** Tuesday, Oct 18, 2005
5:00 on - 6:00 pm Workshop (free)
"ASHRAE's Core Values with a Special Focus on Leadership"
6:00 pm - 8:00 pm Dinner and Program
- Cost:** \$15.00 Dinner and Program
\$8.00 A guest of ASHRAE member (Membership Promotion night)
\$5.00 Program Only
Program attendance is free for students. Student dinner cost:\$10.00
- RSVP:** Bing Liu at (509) 375-3710 or bing.liu@pnl.gov
No Later Than 1:00 PM, Monday, Oct 17, 2005
**A reservation made is a reservation paid.*

Directions (if the link doesn't work): Go north on George WA Way all the way through town, then turn left onto Battelle Boulevard and turn right on Q Ave. You are again heading north & EMSL is the large brick building located at the end of Q Ave. on your left. Enter EMSL through the Main Lobby, and walk through the Lobby to a rear left corridor and take a right. The conference room # 1075 will then be on the left.

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 Lizardous, ASHRAE Distinguished Lecturer

Dec 13, 2005: Battelle Research Campus Update, Mike Lawrence, PNNL Deputy Director

2006

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

Feb xx, 2006: National Engineer Week Banquet

March 14, 2006: Specifications Round Table, Traci Hangan

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
President Elect (509) 375-3710	Bing Liu bing.liu@pnl.gov
Secretary (509) 373-2259	Lois Payne lois_payne@rl.gov
Treasurer (509) 735-1589	Jay Ashbaugh jpashbaugh@meierinc.com
BOG Member at Large (509) 527-7540	Carl Brenneise carl.b.brenneise@nww01.usace.army.mil
BOG Member at Large (509) 375-6317	Jeff McCullough jeff.mccullough@pnl.gov
BOG Member at Large (509) 375-5989	Michele Friedrich mfriedrich@pnl.gov

Committee Chairs

Membership (509) 375-5989	Michele Friedrich mfriedrich@pnl.gov
Newsletter (509) 375-6842	Sriram Somasundaram sriram.somasundaram@pnl.gov
Web Page (509) 735-1589	John Sutton jasutton@meierinc.com
CTTC (509) 375-3710	Bing Liu bing.liu@pnl.gov
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.

Membership Promotion – continued from page 2

pages of PDFs are searchable across all the volumes, in both the I-P and SI unit editions.

The cost of the Handbook CD+ is \$499 (\$249, ASHRAE members). Prices are for a single user. A multi-user network license and a network Handbook CD+ also are available.

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

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,
- 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,





AIA Central Washington
A Chapter of the American Institute of Architects

**Green
Building
Services**

LEED AND GREEN BUILDING WORKSHOP

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System is a comprehensive design and assessment tool that helps architecture, engineering and construction professionals improve building efficiency and measure the sustainability of their projects. Understanding LEED is an important step for reducing a building's environmental impacts and achieving superior economic performance. Architects, engineers, facility managers and building owners who master LEED concepts and processes become knowledgeable practitioners of green design and construction. **This workshop is great preparation for LEED projects and the LEED Accredited Professional Exam.**

(or go to www.cascadiagbc.org)

WEDNESDAY, OCTOBER 26, 2005
WSU-Tri Cities Campus
Consolidated Information Center
Classroom 120/120A

8:30 AM registration/breakfast
9 AM to 5 PM

Workshop earns 7 AIA HSW Credits

This full-day workshop will provide:

- An overview of the U.S. Green Building Council and LEED
- Credit-by-credit review of the LEED rating system
- Integrated design case studies
- Strategies for reducing costs and increasing benefits
- Preparation for the LEED Accredited Professional exam
- Green Building resources for your projects
- Presentation handout and a copy of LEED
- Answers to your questions

WHO SHOULD ATTEND?

- Building and design professionals
- Financial decision-makers
- Project managers
- Building and facility managers
- Interior designers
- Landscape architects
- Anyone interested in projects that provide high-performance

COST

Member: \$200 by October 12
\$250 after October 12

Nonmember: \$225 by October 12
\$275 after October 12

Price includes continental breakfast, lunch and afternoon snack break.

Member pricing is for USGBC/CaGBC and 100 Friends, ASHRAE, AIA, and employees of nonprofit organizations.

QUESTIONS ABOUT THE WORKSHOP OR REGISTRATION?

Brandon@cascadiagbc.org or 503-228-5533