

The



Tumbleweed

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

Don't Miss This Month's Event

September 11, 2007

Low NOx Burners 101

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ASHRAE Strives to Provide Advanced Energy Savings by 2010

ATLANTA – Declaring that the building industry must improve building energy efficiency, ASHRAE is striving to increase building energy efficiency in Standard 90.1.

ASHRAE is looking to achieve 30 percent energy savings in the 2010 standard compared to ANSI/ASHRAE/IESNA Standard 90.1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings.

ASHRAE is committed to continually improving building energy performance. The savings are part of ASHRAE's goal to achieve market-viable net-zero energy buildings by 2030. "Building energy standards and codes play a vital role in helping reduce future U.S. building energy consumption by setting the minimum energy efficiency requirements that all new and renovated buildings must meet," Kent Peterson, P.E., ASHRAE president, said. "But we must improve minimum building energy efficiency standards if we are to truly improve energy performance of the built environment. As such, ASHRAE is making a more aggressive effort to improve the minimum energy efficiency of new building construction not only in the United States but throughout the world."

The plan to achieve 30 percent savings in 2010 is based on an average for all building types and climate weighted energy cost savings and may not be achieved for every building in every climate. Other elements of the plan are:

- * Estimates of energy savings improvement be based on the total annual energy cost of the facility
- * Energy savings estimated on ongoing basis
- * Improvement calculations made in conjunction with technical resources made available by the Department of Energy.

Any changes to Standard 90.1 will continue to follow ASHRAE's standards development process, which is approved by the American National Standards Institute and based on achieving consensus.

Those interested in contributing ideas on the advanced energy savings can submit comments via www.ashrae.org/technology/page/812.

ASHRAE, Mexico Green Building Council Partner on Sustainability

ATLANTA – Under a new partnership agreement, ASHRAE and the Mexico Green Building Council (CMES) will work together to promote buildings that are healthful, environmentally responsible, comfortable and productive, and profitable.

The agreement is part of ASHRAE's new strategies for a global environment, committing the Society to working with organizations with shared objectives.

"Both ASHRAE and CMES have an essential role to play in achieving energy-efficiency improvements in all types of buildings," Kent Peterson, P.E., ASHRAE president, said. "We will work together in promoting smart design practices regarding energy usage, energy-efficient and environmentally responsible buildings."

"This agreement with ASHRAE releases a vast range of stimulating opportunities to facilitate our shared missions of taking sustainability issues to the main-

stream in the building and construction industries and across boundaries," said Cesar Ulises Trevino, LEED AP, president, CMES. "It's now pressing time for responsive and efficient action. Let us jointly reinforce our pledge by collaborating towards mind-shifting professional education and by setting exemplary practice in the field of HVAC and related disciplines. We look forward to challenging initiatives that shall accomplish the ultimate goals of improved quality of life for humanity whilst restoring nature's precious balance. We are proud to merge efforts with ASHRAE, and jointly continue the leading role that is urgently required for a positive transformation of the built environment."

ASHRAE has some 350 members in Mexico in its three chapters in Mexico City, Monterrey and Guadalajara. The Society sponsors the AHR Mexico Exposition every two years, next scheduled for Sept. 23-25, 2008.

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Message from the President

By Lois Payne

September is my favorite month of the year. The hot “daze” of summer are over and harvests are in full swing. Since September is the end of the fiscal year for many of us in the Tri-Cities, we are very busy at work finalizing contract requirements.

At the start of this Society year, you might find yourself reviewing what you did well – or not so well – in the last year relating to ASHRAE. The Mid-Columbia ASHRAE Chapter Officers and Board of Governors have been preparing for the new year, reviewing our own performance for last year, and planning how to develop programs and technical sessions that will benefit all members. With summer planning now behind us, we are energetic about the programs we will offer in the coming months.

The 2006-2007 ASHRAE Presidential theme, “Greater Efficiency Today: Blue Skies Tomorrow,”

puts an emphasis on embracing innovation in our quest for sustainability in the building environment. Each member and each chapter is challenged with promoting building energy performance, becoming more radical in their ideas, more daring in their creativity, and dedicated to delivering innovative systems, methods and technology to accomplish the market transformation we seek.

Our September program is a continuation of our April program on Boiler Designs, Efficiencies and Burner Technology. Don Williams (Captain Combustion) will present more information on burner technologies. I look forward to seeing you at our first program meeting and working with each of you during this Society year.

Varied HVAC Systems Featured in ASHRAE Headquarters Renovation

ATLANTA – Once completed, ASHRAE’s renovated headquarters building in Atlanta will feature two separate HVAC systems as part of its role as living lab.

ASHRAE’s Board of Directors has given the project its final stamp of approval. ASHRAE staff will move into temporary offices in September. The renovation is expected to be completed in June 2008 at an estimated cost of \$5.4 million. The renovated building will feature a new learning center and will serve as a living lab.

“The living lab will support the ASHRAE research program with a rich resource of data on building, system and equipment performance, a demonstration of performance monitoring, and space for ‘real world’ investigations in an operating building,” said Bill Harrison, ASHRAE president-elect who serves as chair of the committee overseeing the project.

Complete information on the renovation can be found at www.ashrae.org/building.

Level one of the building will feature air-cooled multi-split variable refrigerant flow fan coil units with zoned inverter-driven outdoor heat pumps. Level two will feature ground source direct expansion heat pumps for cooling and heating.

Both systems will use a common dedicated outside air system (DOAS), served by a 100 percent outside air unit with energy recovery wheel, series desiccant dehumidification wheel, electrostatic enhanced filters and DX air-cooled R410 multi-stage compressor/condensers.

ASHRAE plans to apply for a LEED Gold certification under the U.S. Green Building Council’s Leadership in Energy and Environmental Design rating system.



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

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

This Month's Event

Tuesday, September 11, 2007

Low NOx Burners 101

Speaker: **Don Williams**

Description:

Mr. Don Williams will give a presentation on low NOx burner design and their application in Commercial and Industrial Boilers.

About Don Williams: Don has spent 15 years in the U.S. Navy, attended the Machinist Mate Class A School, Naval Nuclear Power School, and the Navy Instructors' School. He worked as a lead turbine tester at Westinghouse Marine Division for 7 years building and testing Navy propulsion plants and turbo-generator sets. He has operated various water-tube boilers ranging in size from 300,000 PPH to 20,000 PPH. He worked at COEN Company for 10 years and was involved with burner designs specializing in low NOx burner development. Don is currently employed at Proctor Sales, Inc. in Industrial Combustion Sales and is a Project Manager specializing in large steam generation projects.

Location: Clarion Inn, Richland
1515 George Washington Way

When: 12:00 noon

Cost: \$20.00 Lunch and Program

RSVP: Jay Ashbaugh or Dale Green at (509) 735-1589

jpashbaugh@meierinc.com

degreen@meierinc.com

Please RSVP by September 7, 2007 if you plan to attend.

Program Calendar (2007–2008)

September 11, 2007: *Low NOx Burners 101, Don Williams*

October 9, 2007: *TBD*

November 13, 2007: *TBD*

December 11, 2007: *TBD*

January 15, 2008: *TBD*

February 22, 2008: *Engineers Week Banquet*

March 11, 2008: *TBD*

April 15, 2008: *TBD*

May 13, 2008: *TBD*

June ??, 2008: *Mid-Columbia ASHRAE Golf Tournament to benefit ASHRAE Research.*

Mid-Columbia ASHRAE Chapter

2007-2008 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
Mark Simon at (509) 377-6256
msimon@energy-northwest.com

Important Notice About Future Meeting Dates

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

- **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.

