

Mid-Columbia Chapter of
the American Society of
Heating, Refrigerating and
Air Conditioning

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September 2008

The



Tumbleweed

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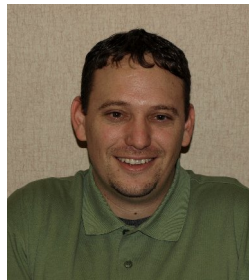
Meet Your Officers for the 2008-2009 ASHRAE Year

**Don't Miss This
Month's Event**

September 9, 2008

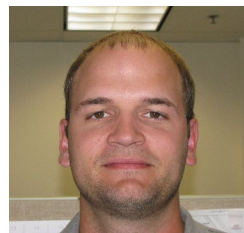
**LEDs—A Bright Idea
for Cold Storage
Applications**

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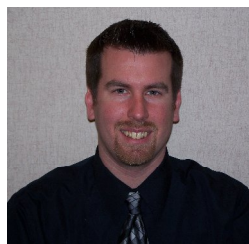
Jay Ashbaugh, President

Jay Ashbaugh, P.E. is the Mechanical Group Manager for MEIER Enterprises, Inc. Jay has been an officer of the Mid-Columbia Chapter of ASHRAE for the past three years and currently serves as President. Jay graduated from Washington State University in 2001 and has seven years experience in the design of commercial and industrial HVAC and plumbing systems.



Mark Simon, President-Elect / CTTC Chair

Mark Simon has worked for Energy Northwest in Richland, WA for the past 2 years. He came to Energy Northwest after graduating with a BS in Engineering from the University of Wisconsin - Stout. Mark is currently serving his second term as an officer for the Mid-Columbia Chapter of ASHRAE and currently serves as the President-Elect and CTTC Chair.



Colin Bates, Secretary / Web Master

Colin Bates is a Mechanical Engineer at MEIER Enterprises, Inc. Colin is serving his first term as an officer in the Mid-Columbia Chapter of ASHRAE as Secretary. Colin has also volunteered to be the chapters Web Master. Colin graduated from the University of Washington in 2005 and has been employed at MEIER since then. Colin has over three years experience in the design of plumbing and HVAC system for commercial and light industrial facilities.

???, Treasurer

This could be you!! Volunteer today to make your ASHRAE Chapter bigger and better.



Dale Green, Board of Governors Member

Dale Green, P.E., LEED AP is a Project Manager at MEIER Enterprises, Inc. He is serving his third term on the Board of Governors for the Mid-Columbia Chapter of ASHRAE and is also a past president of the Chapter. Dale graduated from New Mexico State University in 1990 and has 15 years experience in the consulting industry designing HVAC and plumbing systems for various commercial and industrial buildings and nuclear ventilation systems.

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Message from the President

By Jay Ashbaugh

I hope everyone had a great summer and had the opportunity to share some good times with loved ones, as I know I did. Once again its time for the new Mid-Columbia ASHRAE year and I am proud to be an active member of a great organization. I firmly believe that ASHRAE will have a significant role in the engineering future especially in my line of work. As you are all aware, the engineering community is being asked to design more energy efficiency buildings and equipment to meet the energy saving demands being requested by governments and owners. As energy prices continue to soar, society will depend on organizations like ASHRAE to come up with plans to combat these prices.

This year the chapters Board of Governors include chapter Secretary Colin Bates, Chapter President-Elect Mark Simon, and members at large Dale Green, Bing Liu and Lois Payne. Unfortunately we lost our president elect due to the relocation of Wei Jiang. We appreciated all of Wei's hard work and effort and wish her well on her new adventures. Unfortunately for us it leaves our board one person short. Mark and Colin have volunteered to move up a position, so now we are

looking for a new Treasurer. I would like to take this opportunity to invite anyone who is interested to join the Mid-Columbia ASHRAE Board of Governors.

Our Chapter Technology Transfer Chair (CTTC), Mark Simon, is going to be scheduling the chapter programs this year with an emphasis on energy efficiency. We plan to have a full line up of chapter programs and I hope you all will find these as important and interesting as I do. Our first meeting will be about LED lighting and the energy savings these present energy saving opportunities and provide benefits for both lighting and cooling requirements.

ASHRAE is a great organization and we are hoping to increase our local membership numbers and help to raise research promotion funds for society. If any of you readers know someone who works in the HVAC and R industry who is not a member and is interested please send one of the board of governors an email or phone us and we will get them the membership forms and help them to become a member of ASHRAE.

Meet Your Officers for the 2008-2009 ASHRAE Year—Continued



Bing Liu, Board of Governors Member

Bing Liu, P.E., CEM and LEED AP, is a senior research engineer at Pacific Northwest National Laboratory (PNNL), located in Richland, Washington. Bing has worked in the field for thirteen years engaged in the sustainable building design and analysis, building energy performance simulation, alternative energy assessments, and high performance building performance metering and measurement. Bing has served the Mid Columbia Chapter as an officer for the past 5 years. Bing is an ASHRAE Distinguish Lecturer, was the chief energy analyst in developing ASHRAE's award-winning books: Advanced Energy Design Guide for Small Office and Small Retail Buildings. Bing serves as a consultant to the ASHRAE Standard 90.1 project committee. She has been appointed as the Technology Consultant to the Society's Chapter Technology Transfer Committee. Bing is also a member of several ASHRAE's Technical Committees, including TC 2.8, TC 4.7, and TC 7.6.



???, Board of Governors Member

This could be you!! Volunteer today to make your ASHRAE Chapter bigger and better.

This Month's Event

Tuesday, September 9, 2008

LEDs—A Bright Idea for Cold Storage Applications

Speaker: **Steven Parker & Myra Parker**

Description:

Food service and food sales facilities are very energy-intensive facilities. In commissaries, the largest energy consumer is usually the refrigeration system, which can account for half of the total annual energy consumption. The second largest energy consumer is usually the lighting system. In restaurants, the kitchen is usually the largest energy consumer followed by the lighting and refrigeration systems. Conventional lighting and refrigeration systems typically work against each other. Low temperatures typically reduce the efficacy of lighting systems. The lights generate heat, and inefficient lights generate more heat, which the refrigeration system needs to remove. Because heat is the enemy, cold-storage areas are sometimes poorly illuminated. Improving the efficacy of the lighting system will have a positive impact on the refrigeration system.

Light-emitting diodes (LEDs), a type of solid-state lighting, are an emerging technology that is proving to be ready for certain commercial applications. While commercially-available and reliable products are still limited, LEDs are particularly suited for cold-storage applications—cold climates increase the efficacy of LEDs. Two case studies will be presented illustrating the potential of LEDs in cold-storage applications.

Steven Parker, a chief engineer with the Pacific Northwest National Laboratory, will present the results of a demonstration involving the installation of LEDs in a large freezer storage room at the Fort George G. Meade Commissary. Following, Myra Parker, a regional training manager for Red Lobster, will discuss and present the installation of LEDs in the Kennewick Red Lobster's walk-in freezer storage. The second presentation will include an owner/operators perspective on the benefits of LEDs in this application. Both applications are documented as a result of metered demonstrations performed by the Pacific Northwest National Laboratory.

About Steven Parker:

Steven Parker is a chief engineer at the Pacific Northwest National Laboratory, where he supports research activities in the assessment and deployment of new and emerging energy-efficient technologies. Steven is a Past President of the Association of Energy Engineers and still participates on several technical and policy boards. Involved in energy management since 1981, Steven has conducted several hundred energy surveys instructed over 50 energy-efficiency workshops, in addition to speaking at numerous conferences. Steven Parker has authored over 100 technical reports, articles, and book chapters on energy efficiency and energy cost reduction

About Myra Parker:

Myra Parker has been with Red Lobster for almost 15 years. She is the Service Manager here at Kennewick's Red Lobster. Myra has a strong passion for Red Lobster's commitment to fresh delicious seafood and friendly attentive service, which has lead to her role as the Regional Training Manager the past 3 years. She is a mentor, leader and trainer to all Red Lobster managers in Washington and Northern Idaho.

Location: Red Lobster

1120 N Columbia Center Blvd

Kennewick, WA 99336

When: 12:00 noon

Cost: \$20.00 Lunch and Program

RSVP: Mark Simon at (509) 438-9561 or e-mail at

msimon@energy-northwest.com

Please RSVP by September 8, 2008 if you plan to attend.

Program Calendar (2008–2009)

September 9, 2008: *LEDs—A Bright Idea for Cold Storage Applications, Steven Parker & Myra Parker*

October 14, 2007: *Practical Application of ASHRAE 62.1, Christopher Mueller, ASHRAE DL*

November 11, 2007: *Waterside Economizers, TBD*

December 9, 2007: *ASHRAE Headquarters Renovation, Ron Jarnigan*

January 13, 2008: *Energy Efficiency, Traci Hannigan*

February ??, 2008: *Engineers Week Banquet*

March 17, 2008: *ASHRAE President, Phil Harrison*

April 14, 2008: *Variable Refrigerant Flow, Greg Nelson*

May 12, 2008: *TBD*

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

Mid-Columbia ASHRAE Chapter

2008-2009 Officers/ BOG

President (509) 735-1589	Jay Ashbaugh jpashbaugh@meierinc.com
President-Elect (509) 377-8713	Mark Simon msimon@energy-northwest.com
Secretary (509) 735-1589	Colin Bates cmbates@meierinc.com
Treasurer	TBD
BOG Member at Large (509) 735-1589	Dale Green degreen@meierinc.com
BOG Member at Large (509) 375-3710	Bing Liu bing.liu@pnl.gov
BOG Member at Large	TBD
Committee Chairs Membership (509) 438-9561	Mark Simon msimon@energy-northwest.com
Research Promotion (509) 308-8331	Dale Green degreen@meierinc.com
CTTC (509) 377-8713	Mark Simon msimon@energy-northwest.com
Honors & Awards (509) 438-9561	Lois Payne lois_payne@rl.gov
Newsletter (509) 735-1589	Dale Green degreen@meierinc.com
Historian (509) 375-1020	Rich Evans richevans1@juno.com
Web Page (509) 735-1589	Colin Bates cmbates@meierinc.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.

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) 377-8713
msimon@energy-northwest.com

Important Notice About Future Meeting Dates

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

- **2009**, Jan. 24-28 in Chicago, and June 20-24 in Louisville, KY.

