

*The*



# *Tumbleweed*

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

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

April 10, 2007

## **Boilers — Designs, Efficiencies and Burner Technologies**

Details on page 3

## **Design Build for Green Buildings: Integrated Delivery of an Integrated Idea**

On March 13 the Mid-Columbia Chapter of ASHRAE held a lunch Program meeting at the Clarion Hotel in Richland. There was a meet-and-greet session before the delicious buffet style lunch.

**Mr. E. Mitchell Swann**, ASHRAE Distinguished Lecturer, gave an enlightening presentation to fifteen attendees. To quote one of our members, "I found the topic and Mr. Swann's knowledge to be very pertinent to what I do. He created a needed awareness." The growing popularity of design-build provides businesses with a unique opportunity to reposition their firms in a changing market-

place. "Green building" design and construction is leading the charge of new design approaches in almost every section of the building industry. The successful execution of a green building project, or more specifically a LEED certified project, entails a more integrated approach throughout both the design and construction processes. Design-build requires team alignment, a well defined scope, and established acceptance criteria: define done! Green design emphasizes better or

(continued on Page 2)

## **AEDG — Warehouses Committee met in the Tri-Cities**

The ASHRAE Advanced Energy Design Guides (AEDG) are a series of publications designed to provide recommendations for achieving energy savings over the minimum code requirements of ASHRAE Energy Standard 90.1. The first series of guides have an energy savings target of 30% over the Standard 90.1-1999. Each 30% Guide addresses a specific building type. Following the award-winning publications of the Small Office Guide and Small Retail Guide, ASHRAE is working on another two design guides in 2007, i.e., the K-12 School Guide and Warehouses Guide. On March 10 and 11, the project committee of AEDG — Warehouses kicked off its first meeting in Tri-Cities.

Ron Jarnagin, our long-time ASHRAE member, serves as the Chair of the committee and Bing Liu, current president of Mid Columbia Chapter, is the chief analyst in providing computational and analytical support.

Other out-of-town participants included the committee members as the nationally-reputed experts in various building engineering fields. They also represented other partnering organizations, including USGBC, IESNA, AIA and US DOE. Special thanks to Steve Strecker and Dale Green for generously providing the meeting place at MEIER Enterprises to the committee.

*Bing Liu*



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*Chapter President Bing Liu*

## Message from the President

### Nominating Committee Report:

At the March meeting, the nominating committee presented the names of candidates selected for the 2007-2008 chapter officers and opened nominations from the floor at the meeting. This month, Jay Ashbaugh, our chapter secretary, is preparing a sample ballot with the names of candidates and will be forwarding ballot to the chapter members eligible to vote soon. You can also vote at the program meeting on April 10.

### April Program:

This month's program meeting will feature a presentation by Mr. Don Williams at the Richland Public Library. Don will talk about boiler efficiency, various boiler designs etc. So mark your calendar for April 10 and join us having a dinner and learning new technologies from "Captain Combustion" himself!

*Bing*



*News You Can Use*

## Design Build for Green Buildings (continued)

(From Page 1) 'high performance' buildings as an outcome. Success is measured over time and the process requires greater team contribution and coordination.

A key component of green design is the merging of the architectural and engineering design effort to yield a more holistic design. The better the team coordination; the greater the opportunities to deliver a high performance building. Another movement in the industry is in project delivery. Design\Build and partnering have become much more commonplace project execution techniques even in public sector projects. Design\build seeks to gain time and cost efficiencies by merging the lines between design and construction. Given that both philosophies – green buildings and design\build – have the integration of services at their core, it is only natural that the two would also merge in the delivery of projects. Mr Swann described key ideas, elements and issues inherent in both approaches and where and how they interface on a project.

If sustainability does have a value, a failure to achieve 'it' in a completed project should diminish the project value relative to the contract. The program identified the typical

issues which impact the achievement of sustainable design and operation and provide a framework in which to assess value for those issues. Thoughts to consider when making the deal include buying the extended warranty on the equipment and installation to discourage cheapening and identifying ways to discourage the 'save now - pay later' approach.

Alternative Dispute Resolution (ADR) has a long history of use in labor, workplace and construction disputes. In fact, the construction industry is often seen as the lead innovator in the use of ADR techniques to address and resolve disputes in on-going projects while keeping the project moving forward. ADR is applied in all types of businesses and personal negotiations - from employment disputes to business mediations to neighborhood groups to international refugee crises. These situations may arise out of an impromptu confluence of circumstance or have a formal pathway for resolution defined by the contract. Swann identified the core principles and practices of ADR with a special emphasis on contractual situations, such as construction, contract manufacturing and service outsourcing.

*Lois Payne*



## April Meeting

### ***Boilers — Designs, Efficiencies and Burner Technologies***

**By Don Williams**

Mr. Don Williams will give a talk on boiler designs, their efficiencies and the latest advances in burner technologies.

**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. as Industrial Combustion Sales/Project Manager specializing in large steam generation projects.

**Where:** Richland Public Library (Doris Roberts Gallery)  
955 Northgate Drive, Richland

**When:** Tuesday, April 10, 2007  
6:00 - 6:30 pm Social Time  
6:30 - 7:00 pm Dinner  
7:00 - 8:00 pm Program

**Cost:** \$10 Dinner and Program

**RSVP:** Jay Ashbaugh at (509) 735-1589 or [jpashbaugh@meierinc.com](mailto:jpashbaugh@meierinc.com)  
No Later Than 3:00 PM, Monday, April 9, 2007

*\*A reservation made is a reservation paid.*

## Program Calendar (2006—2007)

**September 12, 2006:** *25th Anniversary Cruise*

**October 10, 2006:** *National CAD Standard Basics, Carl Brenneise, P.E.*

**November 14, 2006:** *Tour of the Integrated Energy Operations Center (IEOC)*

**December 12, 2006:** *Moving from Blue to Green: ASHRAE's Journey to Sustainability, Ron Jarnagin, PNNL*

**January 16, 2007:**

*Role of Controls for Acceptable IAQ, Kent Peterson, ASHRAE Distinguished Lecturer*

**February 23, 2007:**

*Engineers' Week Banquet*

**March 13, 2007:**

*Green Design and Sustainability, E. Mitchell Swann, ASHRAE Distinguished Lecturer*

**April 10, 2007:**

*Boilers, Ray Garner*

**April 18, 2007:**

*Indoor Air Quality, Satellite Broadcast*

**April 25, 2007:**

*Workshop on Commissioning*

**May 9-16, 2007:** *Region XI CRC*

**May 23, 2007:**

*ASHRAE's Sustainable Future, ASHRAE President Terry Townsend*

**June 12, 2007:**

*Golf Tournament for RP Fundraising*

## Mid-Columbia ASHRAE Chapter

### 2006-2007 Officers/ BOG

President (509) 375-3710	Bing Liu <a href="mailto:bing.liu@pnl.gov">bing.liu@pnl.gov</a>
President-Elect (509) 373-2259	Lois Payne <a href="mailto:lois_payne@rl.gov">lois_payne@rl.gov</a>
Secretary (509) 735-1589	Jay Ashbaugh <a href="mailto:jpashbaugh@meierinc.com">jpashbaugh@meierinc.com</a>
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BOG Member at Large (509) 735-1589	Dale Green <a href="mailto:degreen@meierinc.com">degreen@meierinc.com</a>
BOG Member at Large (509) 783-1625	Gil Hibbs <a href="mailto:gilh@scm-ae.com">gilh@scm-ae.com</a>

### Committee Chairs

Membership (509) 735-1589	Steve Strecker <a href="mailto:sjstrecker@meierinc.com">sjstrecker@meierinc.com</a>
Research Promotion (509) 783-1625	Gil Hibbs <a href="mailto:gilh@scm-ae.com">gilh@scm-ae.com</a>
CTTC (509) 373-2259	Lois Payne <a href="mailto:lois_payne@rl.gov">lois_payne@rl.gov</a>
Honors & Awards (509) 375-3710	Bing Liu <a href="mailto:bing.liu@pnl.gov">bing.liu@pnl.gov</a>
Newsletter (509) 375-6842	Sriram Somasundaram <a href="mailto:sriram.somasundaram@pnl.gov">sriram.somasundaram@pnl.gov</a>
Historian (509) 375-1020	Rich Evans <a href="mailto:richevans1@juno.com">richevans1@juno.com</a>
Web Page (509) 372-6256	Wei Jiang <a href="mailto:wei.jiang@pnl.gov">wei.jiang@pnl.gov</a>

*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  
Wei Jiang at (509) 372-6256  
[Wei.jiang@pnl.gov](mailto:Wei.jiang@pnl.gov)

### Important Notice About Future Meeting Dates

The dates for the Winter and Annual Meetings in 2007, 2008 and 2009 are:

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





**ASHRAE**

THE MANY LEVELS OF ASHRAE  
American Society of Heating, Refrigerating and Air-Conditioning Engineers



Together we can create change that will last for generations.

## ASHRAE's

### Healthcare Facility Design Certification Program

- Enhance your credibility
- Expand your industry knowledge
- Demonstrate your commitment to professional development

### Be part of the leading edge!

The first administration of the examination for ASHRAE's Healthcare Facility Design Professional certification program will take place the morning of June 28, 2007, in Long Beach, CA, immediately following the 2007 ASHRAE Annual Meeting.

Please visit [www.ashrae.org/certification](http://www.ashrae.org/certification) for eligibility requirements and other related information. Membership in ASHRAE is not required for participation in the program. However, ASHRAE members will receive a discounts on the price of the certification examinations.

[www.ashrae.org/certification](http://www.ashrae.org/certification)

## Hot Products Coming in June!

2007 ASHRAE  
Handbook — HVAC  
Applications

Air-Conditioning  
Systems Design  
Manual, 2<sup>nd</sup> Edition

Additional ASHRAE titles  
can be purchased at  
[www.ashrae.org](http://www.ashrae.org)

## Registration Now Open!



Long Beach

Join  
**ASHRAE**  
in Long  
Beach  
June  
**23-27**

## Visit the ASHRAE Bookstore at Long Beach for the Latest in Standards!

**\*\*these Standards are expected to be released in June!**

### Continuous Maintenance Standards to Include:

- Standard 90.1-2007, Energy Standard for Buildings Except Low-Rise Residential Buildings (I-P and SI)
- Standard 90.1-User's Manual
- Standard 90.2-2007, Energy Efficiency Design of Low-Rise Residential Buildings
- Standard 62.1-2007, Ventilation for Acceptable Indoor Air Quality
- Standard 62.1 User's Manual
- Standard 62.2-2007, Ventilation for Acceptable Indoor Air Quality
- Standard 52.2-2007, Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size
- Standard 140-2007, Method of Testing for the Evaluation of Building Energy Analysis Computer Programs
- Standard 15-2007, Safety Standard for Refrigeration Systems
- Standard 34-2007, Designation and Safety Classification of Refrigerants



### New Standards to Include:

- Standard 124-2007, Method of Testing for Rating Combination Space-Heating and Water-Heating Appliances
- Standard 183-2007, Peak Cooling and Heating Load Calculations in Buildings Except Low-Rise Residential Buildings

### Reaffirmations to Include:

- Standard 32.3-2003 (RA 2007), Methods of Testing for Rating Pre-Mix and Post-Mix Beverage Dispensing Equipment

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Technical Programs  
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[www.ashrae.org/longbeach](http://www.ashrae.org/longbeach)