

*The*



# *Tumbleweed*

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

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

**Wednesday, May 23,  
2007**

## **Sustainable De- sign Applications**

*Details on page 3*

## ***"Captain Combustion" on Boilers – Design, Efficiency and Burner Technologies***

The Mid-Columbia Chapter of ASHRAE held its April Program Meeting on April 10 at the Richland Library. The event started with a social hour where pizza and soft drinks were served buffet style, and finished with a presentation on boilers.

Don Williams, a.k.a Captain Combustion, with Proctor Sales Incorporated presented on boiler methodologies, his presentation was titled Boilers - designs, efficiencies, and burner technologies. The presentation was an overview of how boilers work and what correct design parameters are. Don also discussed how to select, maintain and design boiler systems and touched on the advantages and disadvantages from one kind of boiler to another. Don went into detailed discussion of

how to correctly design a condensing boiler system and how to correctly design for a non-condensing boiler system. Poor boiler system design causes boilers to have short lives, decreases efficiencies and increases maintenance costs.

The Mid-Columbia ASHRAE chapter is going to try and bring back Don Williams next year so he can present more on burner technologies. We want to thank all who made it out for the April Program and send a special thanks to Captain Combustion for a very informative presentation.

*Jay*

## **Workshop on Commissioning – April 25, 2007**



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*Chapter President Bing Liu*

## Message from the President

Time has passed by so fast. Before I realized it, it is already the month of May. A lot of exciting things will be happening this month. The Chapter Regional Conference (CRC) in our region will be hosted by Alaska chapter and aboard a cruise ship from Vancouver, B.C. to Alaska on May 9<sup>th</sup> – 16<sup>th</sup>. The delegate and alternate representing Mid-Columbia Chapter are Lois Payne and Jay Ashbaugh, respectively. As the Chair of the CRC Action Committee, I am pleased to report that our chapter is in great shape to present our chapter's report at the CRC meeting and submit some application forms for regional awards. Special thanks to all the committee chairs and officers who provided inputs to the report. I know Lois spent a fair amount of time to get the report together.

In April, we elected a new slate of officers that will take office on July 1 and serve this chapter through the new society year. At this month's program meeting, I'll host a ceremony to install the new officers. All the members are invited to witness the installation of the new officers and wish them all the best on their new positions!

This month will be the last ASHRAE technical meeting until we start back with a new year in September. As we kicked off this society year's

program strongly - by celebrating our chapter's 25<sup>th</sup> Anniversary, we will end this year's program strongly - by having ASHRAE President Terry Townsend as the keynote speaker at the meeting on May 23. Terry is a strong advocate of building sustainability and has challenged the ASHRAE society to catch FIRE on sustainability. Having had an opportunity to hear his speech before, I guarantee that you will be inspired by it. So mark your calendar for Wednesday, May 23 and join us for a dinner conversation with ASHRAE President!

May might be the last technical meeting for Mid-Columbia Chapter; however, it is not the end. Our golf tournament is scheduled on June 14 from 1:00 pm at the Columbia Point Golf Course. The proceeds from the tournament will go to support ASHRAE Research. I encourage all of you to come out and golf with us. Also, please distribute the flyer to people you know and encourage them to get on a team and/or be a tee sponsor. This is an easy and fun way to help support ASHRAE Research.

Finally, I would like to thank all of the Board of Governors (BOG) for giving of their time and supporting our chapter's operation this year. One person can not keep this organization running at the volunteering time. All of your efforts are greatly appreciated.

*Bing*



*News You Can Use*

## 2007-2008 Officers Elected

The Mid-Columbia Chapter of ASHRAE held officer elections for the 2007 - 2008 year on April 10, 2007. The nominating committee presented the nominations for the Officer and Board of Governors positions and opened the floor for nominations during the March meeting. No other nominations were presented and the nomination period was closed. Ballots for the election were then distributed to the general membership by e-mail and at the April Chapter meeting. Several people responded to the e-mail by faxing their signed ballots to the nominating committee.

A total of fifteen ballots were returned and the Officers and Board of Governors nominees were unanimously elected. The Slate of Officers and Board of Governors for the 2007 - 2008 Chapter year are as follows:

**President** Lois Payne  
**President- Elect / CRC Delegate** Jay Ashbaugh  
**Secretary / CRC Alternate** Wei Jiang  
**Treasurer** Mark Simon  
**Board of Governors:**  
 Gil Hibbs  
 Dale Green  
 Bing Liu

Congratulations to all those elected and thank you for being willing to serve our chapter. Thanks also to those who served on the nominating committee: Steve Strecker (Chair), Rich Evans, Dr. Sriram Somasundaram, and Dale Green.

*Dale Green*



## May Meeting

### *Sustainable Design Applications*

**By Terry Townsend, P.E., ASHRAE President and FASHRAE**



Terry E. Townsend, P.E., Fellow ASHRAE, is President, Townsend Engineering Inc., Chattanooga, Tennessee, and Panama City, Florida. As ASHRAE's president, Mr. Townsend directs the Society's Board of Directors and oversees the Executive Committee. During his term, Townsend is focusing on the ASHRAE Promise: *A Sustainable Future*, highlighting ASHRAE's efforts in sustainability in the building environment. Mr. Townsend has served as president-elect, treasurer, vice president and Region VII director and regional chair.

He is the recipient of the Exceptional Service Award, the Distinguished Service Award, a Region VII Technology Award, a Regional Award of Merit and a Chapter Report Award. He was awarded a bachelor of science in 1971 and a master of science in mechanical engineering in 1973 from Tennessee Technological University.

**Date:** Wednesday, May 23rd, 2007

**Location:** Clarion Hotel - Richland  
1515 George Washington Way  
Richland, WA

**Time:** 5:30pm – 6:00pm Social Half Hour  
6:00pm – 7:00pm Dinner  
7:00pm – 8:00pm Main Program

**Meeting Cost:**

\$20.00 – Dinner & Program with RSVP

\$25.00 – Dinner & Program without RSVP

FREE – Students

**RSVP Deadline for this meeting is 12:00pm on Monday, May 21, 2007**

Please only RSVP to Lois Payne at [lois\\_payne@rl.gov](mailto:lois_payne@rl.gov)

The May meeting will be the last monthly meeting in the 2006-2007 society year and the new officers will be installed. Please come to support our local ASHRAE Chapter!

## 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, Don Williams*

**April 18, 2007:**

*Indoor Air Quality, Satellite Broadcast*

**April 25, 2007:**

*Workshop on Commissioning*

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

**May 23, 2007:**

*Sustainable Design Applications, Terry Townsend, ASHRAE President*

**June 14, 2007:**

*Golf Tournament for RP Fundraising (See Page 5 of this newsletter for details)*

## 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>
Treasurer (509) 372-6256	Wei Jiang <a href="mailto:wei.jiang@pnl.gov">wei.jiang@pnl.gov</a>
BOG Member at Large (509) 527-7540	Carl Brenneise <a href="mailto:carl.b.brenneise@nww01.usace.army.mil">carl.b.brenneise@nww01.usace.army.mil</a>
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.

# Come Golf With Us

ASHRAE—Mid Columbia Chapter  
Third Annual Golf Tournament  
For  
RESEARCH PROMOTION



American Society of Heating Refrigerating and Air Conditioning Engineers

Where: Columbia Point Golf Course, Richland, Wa

When: June 14th, Thursday, 2007 - Starts at 1:00 PM

**SCRAMBLER  
FORMAT**

**Four Person  
Teams**

**Prizes will be  
Awarded**

**Carts will be  
provided**

**Driving  
Range Free  
Before Golf**

**Raffle Prizes**



*Cookout following Golf*

**Be a TEE  
SPONSOR  
and receive  
recognition  
for your  
Business!**

ASHRAE research advance the arts and sciences of heating, ventilation, air conditioning, refrigeration and related human factors to serve the evolving needs of the public. Your support benefits your quality of life and your business. Sponsor a team!

Team Entry (four golfers, two carts) - \$270	_____	\$
Individual Entry (One Golfer, 1/2 cart) - \$70	_____	\$
Tee Sponsorship: Company Name Displayed at Tournament/In Tumbleweed \$100.	_____	\$
		\$
	Total	\$ _____

Send Entry with Check to: Gil Hibbs c/o Hibbs Engineering, Inc, 4308 S Gum St., Kennewick, WA 99337  
Payable to: Mid Columbia ASHRAE . A Response by June 1 would be appreciated.

Contact Gil Hibbs at ghibbs@clearwire.net or Steve Strecker at 509-735-1589 sjstrecker@meierinc.com for if you have questions or if you have prizes to donate!!

# ASHRAE Learning Institute

## Courses & Seminars at ASHRAE's Annual Meeting in Long Beach, CA

### 2 WAYS TO REGISTER

**Internet:** [www.ashrae.org/longbeachcourses](http://www.ashrae.org/longbeachcourses)

**Phone:** Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

### Full Day Professional Development Seminar

**\$460/\$360** ASHRAE Member  
Earn 6 PDH/6 CEU or 6 AIA LU credits

**New!** The Commissioning Process in  
New & Existing Buildings

Saturday, Jun 23 – 8:00 AM - 3:00 PM



**ASHRAE**  
LEARNING \* INSTITUTE

### Half Day Short Courses

**\$139/\$105** ASHRAE Member  
Earn 3 PDH/.3 CEU or 3 AIA LU credits

**Healthcare Facilities-Best Practice HVAC**  
Saturday, Jun 23 – 9:00 a.m. to 12:00 p.m.

**Introduction Thermal Energy Storage  
System for Air Condition**  
Saturday, Jun 23 – 12:00 p.m. to 3:00 p.m.

**New!** Engineering Ethics: You be the Judge  
Sunday, Jun 24 – 2:30 p.m. to 5:30 p.m.

**Healthcare Facilities-HVAC System**  
Saturday, Jun 23 – 9:00 a.m. to 12:00 p.m.

**Intro to Green Building and Sustainable**  
Sunday, Jun 24 – 2:30 p.m. to 5:30 p.m.

**Complying with ANSI/ASHRAE/IESNA  
Standard 90.1-2004 HVAC/Mechanical**  
Monday, Jun 25 – 2:30 p.m. to 5:30 p.m.

**New!** Natural Ventilation  
Monday, Jun 25 – 2:30 p.m. to 5:30 p.m.

Naturally...  
Nobody Does It Better

How does ASHRAE do it better?  
Join us in Long Beach and find out!

2007 ASHRAE Annual Meeting  
June 23-27

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

**NEW! 8 Focused Tracks  
in Long Beach**

**Wednesday, June 27<sup>th</sup>**

**MIX & MATCH**  
Earn 5 PDH Credits

#### Focus Tracks

Commissioning  
Data Center Cooling  
Environmental Health  
Exergy  
Heat Pump  
Laboratory Design  
Peak Demand/Storage Systems  
Refrigeration

Price: \$190 ASHRAE Member

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

# ASHRAE IAQ Conference 2007

## Baltimore's Inner Harbor, Maryland

### October 14-17

## Healthy & Sustainable Buildings

The conference program includes:

- Internationally acclaimed keynote speakers
- Presentations of original peer reviewed papers
- The latest in sustainable building practices
- Workshops with informal panel discussions
- Networking opportunities at social events



Visit [www.iaq2007](http://www.iaq2007) for more  
information on the conference



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