

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

Articles may be reproduced  
without permission. Please  
credit the source.

April 2012

# The

# Tumbleweed



<http://www.midcolumbia.ashraechapters.org> – Celebrating 30 years.

Things Heat Up for ASHRAE: Annual Conference to be Held in San Antonio, Texas

## Don't Miss This Month's Event

April 10, 2012

Specifying VFD's

By: Kevin Caskey.

[Details on pages 3.](#)

Also the Flyer for the  
June 14th Golf Tournam-  
ent is attached.

ATLANTA—In a city with deep historical roots, ASHRAE will convene in San Antonio, Texas, to not only “remember the Alamo,” but look toward a greener future. The 2012 ASHRAE Annual Conference focuses on everything from the basics of HVAC maintenance to integrated building design.

As members work together to shape tomorrow's built environment, the influences of San Antonio's past—Old Mexico, the Wild West and the Deep South—serve as a reminder of the Society's significant role in the city's hot and dusty past, as well as the Society's position as part of a future of sustainability.

Join ASHRAE in this historic city; registration is now open for ASHRAE's 2012 Annual Conference, June 23-27.

The Technical Program features focused tracks on Integrated Energy Systems, Building Modeling Applications, Refrigeration Applications and Indoor Environmental Applications and general tracks addressing HVAC&R Systems and Equipment and Fundamentals and Applications.

“Interoperability of Smart Building Systems and Smart Grid” is the topic of the Technical Plenary, presented by Lawrence Jones, Ph.D., Alstom Grid Inc., Washington, D.C., on Sunday, June 24.

Also, an Integrated Building Controls “mini-conference” addresses the extension of building controls from just mechanical systems to lighting, water consumption, security and other building systems, working toward the goal of “intelligent buildings.” Sessions related to this topic are scheduled on Sunday and Monday.

The technical program begins Sunday, June 24, and ends Wednesday, June 27, with all sessions at the Henry B. Gonzalez Convention Center. Complete program details are available at [www.ashrae.org/sanantonio](http://www.ashrae.org/sanantonio). The entire technical program is approved for PDHs, and the majority of sessions are also approved

for NY PDHs, AIA LUs and LEED AP credits. The ASHRAE Learning Institute offers eight instructor-led training opportunities. Participants may choose from two full-day and six half-day courses to stay current on HVAC trends, including a new offering on understanding ASHRAE Standard 189.1-2011, Standard for the Design of High-Performance, Green Buildings.

The Conference keynote speaker is Ryan Dorsey, the Gen Y Guy®. Dorsey will focus on “Crossing the Generational Divide,” explaining how four generations are currently working side-by-side in the workplace and the strengths, weaknesses and different perspectives of each. The Plenary session takes place Saturday, June 23 at Grand Hyatt San Antonio. ASHRAE technical tours offer an inside view of how technology developed by members is practically applied in building environments. Tours at the Annual Conference include the SAWS Chiller Plant and the Blue Wing Solar Farm.

The ASHRAE Annual Conference takes place June 23-27. Register before April 20 for early bird rates. The Grand Hyatt San Antonio will serve as the headquarters hotel. Visit [www.ashrae.org/sanantonio](http://www.ashrae.org/sanantonio) for more information.

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow's built environment today.

## Inside this issue:

[Message from the President](#) 2

[This Month's Event \(MAP\)](#) 3f

[Program Calendar \(2011-2012\)](#) 3

[Mid-Columbia ASHRAE Board and Committee Chairs](#) 4

[Future ASHRAE Meeting Dates](#) 4



## Message from the President

By James Clifford

Spring is finally here! Well, the weather isn't necessarily showing it is spring yet. But we will soon be able to dust off the clubs and hit the driving range and the fairways. Speaking of hitting the fairway, our chapter puts on the annual Golf Tournament in which proceeds go for ASHRAE Research Promotion. There will be drawings and activities for prizes for you to add to your golf bag. For information to be a bronze, silver or gold contributor look for the flyer or contact Colin Bates at [cmbates@meierinc.com](mailto:cmbates@meierinc.com).

As for our monthly program, Kevin Caskey will be at the M Hotel and Conference Center (formerly Clarion Inn) on April 10th at noon. Mr. Caskey will be discussing Specifying VFDs. Hope you are able to attend this program.

Have a fun and relaxing Spring Break!

## Promote the ASHRAE Webcast At Your Chapter!



The ASHRAE webcast, "**Dedicated Outdoor Air Systems: A Path to Balancing Energy and IEQ**" will be held on April 19, 2012. ASHRAE is counting on your chapter to help promote the webcast on your homepage, in your newsletter, and at your chapter meetings.

Chapters that use the media kit, available on the webcast webpage, will go into a drawing to receive items from the ASHRAE logo store to use as door prizes at any of your Spring 2012 chapter meetings.

Visit the website at [www.ashrae.org/DOASwebcast](http://www.ashrae.org/DOASwebcast) and find out more about the webcast and download the marketing materials. Then, send a copy of your newsletter or link to your webpage to [marketing@ashrae.org](mailto:marketing@ashrae.org) and you will be entered to win.

Thank you in advance for your participation and promotion of the ASHRAE webcast program.



**This Month's Event—****Speaker:** Kevin Caskey**Title:** Specifying VFD's**Outline:**

Using a VFD Schedule

VFDs for 115V/single phase motors?

How to size a VFD?

Enclosures: NEMA 1, NEMA 12, NEMA 3R or...?

Bypasses: Do you need them? A simple test; what are the options?

Redundant VFDs? What are they, why and when to consider them?

Harmonics: Harmonics Analysis and IEEE-519

Reactors &amp; filters: What are they? Do you need them? If so, when?

BMS Interface and Serial Communications issues: BACnet, LON, Others

Extended Warranties, start-up, training, spare fuses/parts/VFDs

Who should provide VFDs (Electrical, Mechanical, Controls, Others)? Why?

**WHEN:** Tuesday April 10, 2012**TIME:** 12 Noon**Cost:** \$20.00**WHERE:** M Hotel and Conference Center (Previously the Clarion Inn)

1515 George Washington Way

Richland, WA 99352

**RSVP Information to Weimin Wang:** weimin.wang@pnnl.gov**phone:** 509-372-6787. Please RSVP before April 9.**Program Calendar  
(2011–2012)****September 1, 2011: Ron Jarnagin. Sustaining ASHRAE Through Leadership****October 11, 2011: Michael Hatten. Using Integrated Design to Achieve Net Zero Energy Performance.****November 8, 2011: Gary Watkins. Technical Tour: BSF/CSF Building at PNNL****December 13, 2011: Erich Binder: ASHRAE Region XI Activities and how Mid-Columbia Chapter will be a big part of the future.****January 10, 2012: Floyd Barwig: Public Benefits Programs in New York State****February 2012: Engineers Week Banquet****March 13, 2012: Bryan Lampley: Digital Control Systems Explained****April 10, 2012: Kevin Caskey, Specifying VFDs****May 16, 2012: Stanley A. Mumma: DOAS and Chilled Beams in building Design****June 14, 2012: Mid-Columbia ASHRAE Golf Tournament to benefit ASHRAE/Research, Columbia Point Golf Course**

## Mid-Columbia ASHRAE Chapter

### 2009-2010 Officers/ BOG

President (509) 308-0924	James Clifford <a href="mailto:jimclifford15@msn.com">jimclifford15@msn.com</a>
President-Elect (509) 372-6787	Weimin Wang <a href="mailto:weimin.wang@pnl.gov">weimin.wang@pnl.gov</a>
Secretary (509) 371-6608	Jian Zhang <a href="mailto:j.zhang@pnl.gov">j.zhang@pnl.gov</a>
Treasurer (509) 372-3956	Heejin Cho <a href="mailto:HeeJin.cho@pnl.gov">HeeJin.cho@pnl.gov</a>
BOG Member at Large (509) 735-1589	Colin Bates <a href="mailto:cmbates@meierinc.com">cmbates@meierinc.com</a>
BOG Member at Large (509) 735-1589	Jay Ashbaugh <a href="mailto:jpashbaugh@meierinc.com">jpashbaugh@meierinc.com</a>
BOG Member at Large (509) 377-8713	Mark Simon <a href="mailto:msimon@energy-northwest.com">msimon@energy-northwest.com</a>
<u>Committee Chairs</u>	
Membership (509) 377-8713	Mark Simon <a href="mailto:msimon@energy-northwest.com">msimon@energy-northwest.com</a>
Research Promotion (509) 735-1589	Colin Bates <a href="mailto:cmbates@meierinc.com">cmbates@meierinc.com</a>
CTTC (509) 372-6787	Weimin Wang <a href="mailto:weimin.wang@pnl.gov">weimin.wang@pnl.gov</a>
Honors & Awards (509) 735-1589	Jay Ashbaugh <a href="mailto:jpashbaugh@meierinc.com">jpashbaugh@meierinc.com</a>
Newsletter (509) 735-1589	Colin Bates <a href="mailto:cmbates@meierinc.com">cmbates@meierinc.com</a>
Historian (509) 375-1020	By Committee
Web Page (509) 372-3956	Heejin Cho <a href="mailto:heejin.cho@pnl.gov">heejin.cho@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  
Weimin Wang at (509) 372-6787  
[weimin.wang@pnl.gov](mailto:weimin.wang@pnl.gov)

### Important Notice About Future Meeting Dates

Washington Society of Professional Engineers:  
Standards of Professionalism in Engineering Practice.

Friday May 4th

Here is the link for more information:  
<http://wspemay2012.eventbrite.com/>







**8th Annual Mid-Columbia ASHRAE Golf Tournament  
Columbia Point Golf Course**

**Thursday, June 14, 2012—12:00 pm Tee Time**

PROCEEDS FROM THE TOURNAMENT GO TO ASHRAE RESEARCH PROMOTION

**SCRAMBLER  
FORMAT**

**Four Person  
Teams**

**Prizes will be  
Awarded**

**Carts will be  
Provided**

**Driving  
Range Free  
Before Golf**

**Sponsorship Levels:**

**Bronze:** Tee Sponsor Only, ASHRAE Honor Roll - \$150

Silver: Team of 4 - \$300

**Gold:** Team of 4, Tee Sponsorship, ASHRAE Honor Roll Investor, Name in Chapter Newsletter - \$400

Platinum: Team of 4, Tee Sponsorship, ASHRAE Major Donor Status (receives plaque from ASHRAE), 20 Raffle Tickets, Free Mulligan per player, Name in Chapter Newsletter - \$500

*ASHRAE research advances 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*

Sponsorship Level (Bronze, Silver, Gold, Platinum)	\$ _____
\$150/300/400/500	\$ _____
Individual Entry (One Golfer, 1/2 cart) - \$80	\$ _____
Additional ASHRAE Research Contributions	\$ _____
Total	\$ _____

**Raffle Prizes**

Send Entry with Check Payable to Mid-Columbia ASHRAE to:  
Colin Bates  
c/o Meier Architecture • Engineering  
8697 Gage Blvd.  
Kennewick, WA 99336.

A Response by June 1 would be appreciated.

Please list the names of the golfers on your team as well as their golf handicap below.

***Cookout  
following  
Golf***

Name of Golfer	Handicap (30 max)
_____	_____
_____	_____
_____	_____