

The



Tumbleweed

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

Don't Miss This Month's Event

May 16, 2006

**Operations and Maintenance Best Practices -
The O&M Approach to
Energy Efficiency and
Resource Savings**

Greg Sullivan, PNNL

Details on page 3

Wireless Sensors for Building Operations: What Are the Opportunities?

Michael Kintner-Meyer, Senior Staff Engineer in the Energy Technology Development group at PNNL, gave a technical presentation on the future of wireless sensors based on the performance of the over 1,000 wireless sensors installed in PNNL campus buildings. He reported the results of an ASHRAE survey, provided an overview of typical system configurations, and described the benefits of using wireless versus hard-wired systems, based on PNNL Lessons Learned. Based on their survey, this technology is advancing; projections show a \$7 Billion market for wireless sensors by 2010. The installation cost for wireless was less than half of the cost for a hard-wired control system. Improved fault detection and diagnostic capabilities eased trouble-shooting which resulted in improved energy efficiency, ability to perform condition-based maintenance and extended equipment life. By using the wireless sensors for real-time feedback and system performance monitoring, trouble calls were greatly reduced; in one

case, improvements resulted in a less than one-year payback. Potential future uses identified include occupancy sensing and monitoring emergency lighting ballasts. You can expect to see a new Chapter in the 2007 ASHRAE Handbook on Wireless Sensing.

Thirteen professionals attended this ASHRAE presentation held at the Richland Library. An Italian Pasta Bar was served for dinner followed by announcements from President Dale Green.

Gil Hibbs presented awards to Michele Friedrich, Dale Green, Ron Jarnagin, Bing Liu, Kerry McDaniel, Steve Strecker, and Carl Brenneise for their contributions to ASHRAE during 2004-2005. The 2006-2007 Mid-Columbia ASHRAE Officer nominees were unanimously approved by the voting members in attendance.

Inside this issue:

| | |
|--|---|
| Message from the President | 2 |
| From the Summit | 2 |
| This Month's Event | 3 |
| Program Calendar (2005-2006) | 3 |
| Mid Columbia ASHRAE Board and Committee Chairs | 4 |
| Future ASHRAE Meeting Dates | 4 |

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

A response by June 1, 2006 will be appreciated (See Page 5 for details)

SCRAMBLER FORMAT

- * Four Person Teams; Prizes will be awarded

Where: Columbia Point Golf Course, Richland, Wa
When: June 15, Thursday - Starts at 1:00 PM



Chapter President Dale Green

Message from the President

May already? WOW!! This month will be the final ASHRAE meeting until we start back with a new year in September. I would like to thank all of the Board of Governors (BOG) for giving of their time this year. One person can not keep this organization running. All of your efforts are greatly appreciated.

In April, we elected a new slate of officers that will carry this chapter through next year. Again, thanks for your willingness to serve the Mid-Columbia Chapter and good luck. I hope you have a successful year.

The BOG will hold its last meeting of the year prior to the regular chapter meeting on May 16 at 5:30 pm. All of the members for next year's BOG are invited to attend.

May might be the last meeting for the Mid-Columbia Chapter, however it is not the end. Our golf tournament is scheduled for June 15 at the Columbia Point Golf Course. The tournament will

start at 1:00 pm and there will be a cookout following golf. 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. In addition, plans are already in the works for the Mid-Columbia Chapters 25th Anniversary celebration, which will be held in September.

Our regions Chapter Regional Conference (CRC) will be held in Victoria BC, Canada on May 10th – 13th, 2006. You can find more information on the CRC and register at the Region XI portion of the ASHRAE website or at <http://www.ashrae.bc.ca/vi/crc2006.htm>

Dale



*Mr. Ron Jamagin
ASHRAE Vice President*

From The Summit: Exercise Your Right To Choose Your ASHRAE Leaders!

By Ron Jamagin, ASHRAE Vice President

Every ASHRAE member with an e-mail address on file with headquarters should have received a notice of the ASHRAE annual election in their inbox in April. If you do not have an e-mail address on file then you should have received a paper ballot in the regular mail. In case you have not yet done so, please go online and cast your ballot or fill out the mail ballot for this most important election.

Each ASHRAE member gets to vote for 2 senior officers (President Elect and Treasurer), 4 Vice Presidents, 3 Directors-at-Large, and 4 or 5 Directors and Regional Chairmen. There is no vote for the President since under ASHRAE rules the President Elect automatically ascends to the office without a vote. All of these candidates will represent the Society on the Board of Directors for their respective terms. Officers are elected for a one-year term, and directors are elected for 3-year terms.

You may have noted in the past that the ballots contain only a single name for each officer and director position. This is a reflection of the ASHRAE philosophy that "the job seeks the person."

Recommended candidates are screened extensively by the Society Nominating Committee, made up of membership from each Region as well as Board elected membership. The Nominating Committee performs the detailed vetting for the membership, and puts forth their recommended candidates. Each member does have the option to write-in a vote if they chose, so please make sure to return your completed ballot.

In addition to the election of officers and directors, certain questions may appear on the ballot for the membership at large. This year's ballot contains 3 proposed changes to the Society By-laws. The bylaws changes address dues payment methods, the reinstatement of a membership after the lapse of dues payments, and the authority of Members Council for the regions, chapters, sections and student branches. The Bylaws are one of the main governing documents of the Society, and your vote will help shape that document. The Board of Directors recommends a positive vote on all 3 proposed changes.

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, May 16, 2006

Operations and Maintenance Best Practices - The O&M Approach to Energy Efficiency and Resource Savings



By Greg Sullivan

Pacific Northwest National Laboratory

The U.S. Department of Energy's Operations and Maintenance Best Practices Guide highlights O&M programs targeting energy efficiency estimated to save between 5% and 20% on energy bills. Depending on the site, these savings can represent thousands to hundreds-of-thousands of dollars each year. Furthermore, many of these activities require little capital investment but instead focus on strategies for doing more with existing staff and equipment. In addition to energy/resource savings, a well-run O&M program will:

- * Increase the safety of all staff because properly maintained equipment is safer equipment.
- * Ensure the comfort, health and safety of building occupants through properly functioning equipment, providing a healthy indoor environment.
- * Confirm the design life expectancy of equipment is achieved.
- * Facilitate compliance with Federal legislation such as the Clean Air Act and the Clean Water Act.

This presentation will highlight the O&M Best Practices Guide as a resource and present an overview of some of the often hidden savings found at our nation's Federal and private-sector facilities.

Greg Sullivan is a Senior Research Engineer with Pacific Northwest National Laboratory where he has worked for the past 12 years. His research interests include resource efficiency, end-use metering, technology evaluation and O&M. Greg is a registered Professional Engineer in the state of Washington and a Certified Energy Manager.

Location: Richland Library, Doris Roberts Gallery, 955 Northgate Drive, Richland

Date: Tuesday, May 16, 2006

Time

| | |
|----------------|-------------|
| 5:30 - 6:30 pm | BOG Meeting |
| 6:00 - 6:30 pm | Social Time |
| 6:30 - 7:00 pm | Dinner |
| 7:00 - 8:00 pm | Program |

Cost: \$10.00 Dinner and Program (Pizza); \$3.00 Program Only
Program attendance is free for students. Student dinner cost is \$7.00

RSVP: Bing Liu at (509) 375-3710 or bing.liu@pnl.gov
No Later Than 1:00 PM, Monday, May 15, 2006

*A reservation made is a reservation paid.

Program Calendar (2005–2006)

Mark your calendars for the following upcoming events:

2005

Sep. 13, 2005: Condenser Water Heat Recovery, Julian de Bullet, McQuay International

Oct. 18, 2005: Global Warming, Victor Goldschmidt, ASHRAE Distinguished Lecturer

Oct. 26, 2005: USGBC LEED and Green Building Workshop

Nov. 9, 2005: Innovative Air-side Systems Designed to Conform to ASHRAE 90.1 and Improve IAQ, Evans Lizardos, ASHRAE Distinguished Lecturer

Dec. 13, 2005: Battelle Research Campus Update, Mike Lawrence, PNNL Deputy Director

2006

Jan. 10, 2006: Building commissioning and retro-commissioning, Janice Peterson, Green Building Services in Portland

Feb. 24, 2006: National Engineers' Week Banquet

March 15, 2006: ASHRAE President Lee Burgett's visit; Specifications Round Table, Traci Hanegan

April 11, 2006: Wireless Sensors for building operations: What are the opportunities? Michael Kintner-Meyer, PNNL

April 19, 2006: ASHRAE Satellite Broadcast on Green Buildings; WSU-TC

May 16, 2006: Best Practice of O&M, Greg Sullivan, PNNL

Mid-Columbia ASHRAE Chapter

2005-2006 Officers/ BOG

| | |
|---------------------------------------|--|
| President (509) 735-1589 | Dale Green degreen@meierinc.com |
| President Elect (509) 375-3710 | Bing Liu bing.liu@pnl.gov |
| Secretary (509) 373-2259 | Lois Payne lois_payne@rl.gov |
| Treasurer (509) 735-1589 | Jay Ashbaugh jpashbaugh@meierinc.com |
| BOG Member at Large (509) 527-7540 | Carl Brenneise carl.b.brenneise@nww01.usace.army.mil |
| BOG Member at Large (509) 375-6317 | Jeff McCullough jeff.mccullough@pnl.gov |
| BOG Member at Large (509) 375-5989 | Michele Friedrich mfriedrich@pnl.gov |

Committee Chairs

| | |
|--------------------------------------|---|
| Membership (509) 375-5989 | Michele Friedrich mfriedrich@pnl.gov |
| Newsletter (509) 375-6842 | Sriram Somasundaram sriram.somasundaram@pnl.gov |
| Web Page (509) 735-1589 | John Sutton jasutton@meierinc.com |
| CTTC (509) 375-3710 | Bing Liu bing.liu@pnl.gov |
| Student Activities (509) 627-2272 | Kaleem Ullah mkaleem.ullah@verizon.net |
| Honors & Awards (509) 375-5989 | Michele Friedrich mfriedrich@pnl.gov |
| Research Promotion (509) 783-1625 | Gil Hibbs qilh@scm-ae.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
Jay Ashbaugh at (509) 735-1589
jpashbaugh@meierinc.com

Important Notice About Future Meeting Dates

The dates for the 2006 and 2007 Winter Meetings are incorrect on some ASHRAE membership cards.

The correct dates for the Winter and Annual Meetings are:

- **2006**, Jan. 21–25 in Chicago, and June 24–28 in Quebec City, QC,
 - **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,
- Canada;



Come Golf With Us

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



American Society of Heating Refrigerating and Air Conditioning Engineers

Where: Columbia Point Golf Course, Richland, Wa


When: June 15, Thursday - Starts at 1:00 PM

SCRAMBLER FORMAT

Four Person Teams

Prizes will be Awarded

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



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 and your business. Sponsor a team!

Cookout following Golf

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

Send Entry with Check to: Gil Hibbs c/o SCM Consultants, Inc, 7601 W Clearwater Ave, Kennewick, WA 99336

Payable to: Mid Columbia ASHRAE . A Response by June 1 would be appreciated.

Contact Gil Hibbs at 509-783-1625, gilh@scm-ae.com or Steve Strecker at 509-735-1589 sjstrecker@meienmc.com if you have prizes to donate!!