

THE HOT AIR DIFFUSER

Chapter Newsletter

FEBRUARY 2016

Volume 22 Issue 6



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FEBRUARY:

Global Warming Potential Refrigerants (GWPs)

The February 2015 monthly Idaho ASHRAE meeting will take place at the Idaho Power headquarters. The meeting was organized by our Refrigeration Subcommittee, Eric Nelson and Dustin Lilya. The speaker will be Keilly Whiteman. Keilly will be presenting on the future of high Global Warming Potential (GWP) refrigerants and the EPA's potential plans in the near future.

KW Refrigerant Management Strategy is a consulting firm specializing in refrigerant management strategy for the supermarket industry. Owner Keilly Witman is the nation's recognized expert in supermarket refrigerant management. She worked with over 8,500 food retailers to reduce refrigerant emissions and decrease their impact on the ozone layer and climate change, while helping them to save money.

Keilly launched KW Refrigerant Management Strategy in 2014 to help supermarket owners, service contractors and equipment manufacturers better understand what they need to do to prepare for future refrigerant regulatory changes, comply with existing refrigerant regulations, and provide objective and independent advice on best practices and advanced environmental refrigeration technology.

Please Register online at:

www.idahoashrae.com

When:

Wednesday, February 10th, 2016
11:45am to 1:00 pm MST

Where:

Idaho Power
1221 W. Idaho St.
Boise, ID

JANUARY:

Graduate Studies Speakers

The January 2016 monthly ASHRAE meeting was hosted at Idaho Power. The focus was three different projects undertaken by mechanical engineering graduate level students in the valley. Dammon Woods, Shrief Elsayed Shrief, and Hanna Luthman spoke on their respective graduate studies.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

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PRESIDENT'S MESSAGE

RUSSELL PRATT

Has anyone else noticed how hard it is lately to find entry level EIT's? It also seems to be difficult for contractors to find installers that have a good basic skill set to start with. Recently, I've found a few piping installation details that leave me scratching my head saying something like "really, you didn't know that a swing check can't be installed pointing down?" So, I did a little research and found that Dennis Technical-Education Center does not have an HVAC technician training program. I've also found that West Ada school district has a pre-engineering program at the Professional Technical Center. It does not have an architectural engineering program that would give kids a head start on a career in HVAC engineering.

I've seen a need and I want to assemble a team of key people with an interest in helping these two facilities. We need to help them create the programs we need to inspire an interest in this career path at an earlier age. We can use the resources we have at the chapter level to start and then leverage local industry support to build. If you agree and have an interest in getting involved, let me know. You can email me at russell.pratt@cshqa.com.

<http://www.westada.org/Page/22635>

<http://www.westada.org/Page/634>



HISTORY LESSON

FEBRUARY

Five Years Ago

The chapter president was Carl Marcum. The meeting was held on February 9, 2011, at the Idaho Power Building. John Rimer, Commissioning Department Manager for McKinstry, discussed the commissioning agent's responsibilities.

Ten Years Ago

The chapter president was Bob Tikker. The meeting was held on February 10, 2006, at the Idaho Power Building. A panel discussion was held discussing "LEED Projects in Idaho".

Fifteen Years Ago

The chapter president was Ben Kohler. The meeting was held on February 9, 2001, at the King's Table Restaurant. The meeting was a presentation by Shirl C. Boyce, Boise Area Chamber of Commerce, on Idaho's economy

Twenty-Five Years Ago

The chapter president was Scott Richardson. The meeting was held on February 8, 1991, at the King's Table Restaurant. The program was a panel discussion on "Deregulation and its impact on Energy Availability", "Meeting Demand for Energy during Idaho's Rapid Growth", "Conservation's Significant Role in the Northwest's Energy Picture", and "How the Gulf War Will Impact Our Energy Supplies".

Thirty Years Ago

The chapter president was Dave Asmus. The meeting was held on February 10, 1986, at the King's Table Restaurant. The program was a presentation on the Boise Cascade Building conversion from a conventional constant volume refrigeration-and-reheat air conditioning system to a VAV system.

NEWS FROM THE HOME OFFICE

Senate to Consider Landmark Energy Bill Next Week

The US Senate is poised to consider the Energy Policy Modernization Act (S.2012) beginning Tuesday Jan 26th. The bill will be debated under an open amendment process that will likely several days – and according to some Senate staff – multiple weeks to complete. The details of amendments that may be offered are not yet available.

ASHRAE supports the building energy codes provisions of S.2012, as well as the reauthorization of the State Energy Program and Weatherization Assistance Program. The Society recommends adding language from H.R.8 that would support the consensus process for developing energy conservation standards for residential non-weatherized gas furnaces and mobile home gas furnaces. ASHRAE also suggests that Senators add language supporting the Sensible Accounting to Value Energy (SAVE) Act, which would encourage energy efficiency to be considered during mortgage underwriting .

DOE Issues Final Rule on Test Procedures for Residential Furnaces and Boilers

The US Department of Energy (DOE) has issued a final rule amending its test procedure for residential furnaces and boilers established under the Energy Policy Conservation Act. ASHRAE Standard 103 Method of Testing for Annual Fuel Utilization Efficiency of Residential Central Furnaces and Boilers is extensively discussed in this rulemaking, which can be found at:

<https://www.federalregister.gov/articles/2016/01/15/2016-00040/energy-conservation-program-for-consumer-products-test-procedures-for-residential-furnaces-and> .

Direct Final Rule and Supplemental Notice of Proposed Rulemaking Issued by DOE on Small, Large, and Very Large Air-Cooled Commercial Package Air Conditioning and Heating Equipment and Commercial Warm Air Furnaces

DOE has issued a direct final rule and supplemental notice of proposed rulemaking (SNOPR) amending the energy conservation standards for both small, large, and very large air-cooled commercial package air con-

ditioning and heating equipment and commercial warm air furnaces after determining that the amended energy conservation standards being adopted for these equipment would result in the significant conservation of energy and be technologically feasible and economically justified. If DOE receives adverse comments and determines that such comment may provide a reasonable basis for withdrawing the direct final rule, DOE will publish a document withdrawing the direct final rule and will proceed with the proposed rule.

The direct final rule can be viewed at.

<https://www.federalregister.gov/articles/2016/01/15/2015-33069/energy-conservation-program-for-certain-industrial-equipment-energy-conservation-standards-for-small>

ANSI/ASHRAE/IES 90.1 Energy Standard for Buildings Except Low-Rise Residential Buildings is extensively discussed in these documents .

DOE Issues Proposed Rule on Energy Conservation Standards for Ceiling Fans

DOE has issued a notice of proposed rulemaking that would amend energy conservation standards for ceiling fans, and has also announced a public meeting to receive comment on these proposed standards and associated analyses and results. Full information on this rulemaking can be found at:

<https://www.federalregister.gov/articles/2016/01/13/2015-33062/energy-conservation-program-energy-conservation-standards-for-ceiling-fans> .

Legislatures Continue to Convene for 2016 Sessions

Fifteen additional States have convened sessions of the legislature for their 2016 sessions. Lawmakers in Alaska, Arizona, Colorado, Delaware, Florida, Georgia, Illinois, Maryland, New Jersey, New Mexico, South Carolina, South Dakota, Tennessee, Virginia and West Virginia returned to their capitals within the past two weeks looking at a diverse set of issues. Of particular interest is the State of Illinois, which was unable to pass a State budget for the current fiscal year due to an impasse between the legislature and the Governor.

NEWS FROM THE HOME OFFICE CONTINUED...

Legislative leaders there are not optimistic that a budget deal is close.

In addition to passage of budgets in all these States, other items of interest include:

- Florida – a water quality protection bill is likely to be introduced
- New Mexico – possible modification of the State's renewable portfolio standards for energy production
- South Carolina – potential legislation on coastal wind energy development
- West Virginia – probable legislation on forced pooling of natural gas leasing agreements, which compels land-owners to join natural gas-leasing agreements with neighbors (a similar bill failed last year).

Rhode Island Governor Issues Executive Order on Energy Efficiency and Clean Energy

On December 8, 2015, Rhode Island Governor Gina M. Raimondo (D) issued an Executive Order that established a Lead by Example program within the Office of Energy Resources (OER), to oversee and coordinate efforts at State agencies to reduce energy consumption and greenhouse gas emissions. The Executive Order, among other provisions:

- Calls for reduction of fossil fuel energy consumption in State facilities
- 100% renewable energy for State facilities by 2025
- Reduction of energy consumption by 10% in State facilities by 2019
- 25% of new light-duty State fleet purchases and leases will be zero-emissions vehicles by 2025
- Achievement of a high standard of green building operations and maintenance at all State facilities such as may be accomplished through the International Green Construction Code, US Green Building Council's LEED certification, or an equivalent high performance green building standard
- Establishment of a voluntary aspirational or stretch building code based on the International Green Construction Code or equivalent by 2017 that shall be publicly available for use in all State construction and renovation projects as well as those in the private sector .

New ASHRAE Application Automates Compliance Calculations for Standard 90.1-2010

ATLANTA – A new web application from ASHRAE automates the calculations needed to show a building project's compliance with Standard 90.1-2010.

The 90.1 ECB web application is a tool for modeling compliance with ANSI/ASHRAE/IES 90.1-2010, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, using the Energy Cost Budget (ECB) method in the standard.

The application allows users to input project parameters and then calculate the proposed design's projected performance and compliance, with the results exportable in a workable spreadsheet for project use," Drake Erbe, chair of the Standard 90.1 committee, said.

The application is accessible from desktop, tablet or other device. It allows users to store project information in one place for easy reference and comparison.

The app is free of charge to users. To learn more, visit 901ECB.ashrae.org.

ADVERTISEMENTS

Online Advertising!!

Get your business card posted on

www.idahoashrae.com

*renewals are due now

Annual Business Card Ad on Website: **\$50**



Professional Development Hours

Professional Development Hours are now available at
ASHRAE monthly meetings!



ATTENTION: ASHRAE MEMBERS The Chapter is now accepting advertisements in the monthly newsletter. <u>Sponsorship Rates are as follows:</u>		
	Per Issue	Annual (9 issues)
Business Card	\$10.00	\$50.00
Quarter Page	\$25.00	\$200.00
Half Page	\$40.00	\$325.00
Full Page	\$60.00	\$450.00

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Simple Advertisements Available For FREE!!

EXAMPLE:

Engineering Company-Mechanical Engineer I Position now open
Visit: www.engineeringcompany.com/.careers for more information

- For quarter, half, or full page job advertisements see above for pricing

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- For quarter, half, or full page job advertisements see above for pricing

Interested in becoming more involved with your local ASHRAE Chapter? Positions will be opening up soon!

Please contact Russell Pratt @ russell.pratt@cshqa.com for more information.





BEAP - Building Energy Assessment Professional Certification

ASHRAE has certified more than 2,000 professionals who have demonstrated their knowledge and expertise in the HVAC&R industry. Gain a competitive edge by earning an ASHRAE certification in building energy assessment. The BEAP certification validates competency to do the following:

1. Audit, assess and analyze residential, commercial and industrial building energy use.
2. Develop recommendations thereof.

Value of BEAP Certification

- Demonstrate competency in critical energy assessment knowledge, skills and abilities,
- Elevate your reputation among peers in the workplace and among clients,
- Comply with local, state and federal requirements,
- Conduct Building Energy Quotient (bEQ) in Operation rating



Earn a BEAP Certification

1. Check Your Eligibility.

Review the eligibility criteria on page 2 of the [Candidate Guidebook](#) to see if you are eligible to sit for the exam.

2. Apply Online in Just 5 Minutes

The application fee is \$415 (ASHRAE member discount - \$295). After ASHRAE approves your application to sit for the exam, you will receive instructions how to schedule a computer-based test (CBT) at 1 of over 300 locations.

3. Schedule Your Exam.

Testing centers are available worldwide. You must register for and take the examination within 90 days of the approval of your application.

4. Get Ready to Take Your Exam

Review Tips and Strategies for Certification Exam Preparation,
Try these Sample Exam Items,

Key and Related Resources are available for Applicants who wish to purchase a publication or participate in a preparatory activity.

5. Take the Practice Exam

Become more familiar with BEAP exam content and difficulty with this 30-question, Online Practice Exam.

6. Take Your Exam!

7. Questions?

These Certification FAQs can help. Please call 678-539-1113 or email with any additional questions.

ASHRAE FAMILY

BOWLING NIGHT

WHEN: FEBRUARY 17th, 2016 - 6:00 TO 8:00 PM MST

WHERE: BIG AL'S - 1900 N EAGLE ROAD MERIDIAN, ID 83646

Bring your Family out for a night of Bowling fun at Big Al's to benefit the Idaho Chapter of ASHRAE.

Paid Registration Includes...

2 Hours of Bowling
Shoe Rental
2 slices of Pizza
Bottomless Soda



Registration Costs...

\$30 - Individual Adult Registration
\$15 - Individual Kid Registration (High School & Younger)
\$150 - Team Registration (5 to 6 people)

Bowling Format: 5 or 6 person Tag-Team Bowling

Entire team rotates turns bowling frames on the same game.

1st Team member bowls 1st frame, 2nd team member bowls 2nd frame, 3rd team member bowls 3rd frame, etc. until all 10 frames have been bowled (15-20 minutes). Final Team score for each round is recorded.

Team average score is calculated at end of 2 hours with Trophy award to team with highest team average score.

*Note: Kids can be placed in groups on their own lane(s) nearby the adult lanes.

Tickets

\$30.00 Individual Adult Ticket

\$15.00 Individual Kid Ticket (High School and younger)

\$150.00 Team Ticket (5 to 6 persons any age)

[REGISTER](#)

Research Promotion

Thanks to everyone who has contributed to ASHRAE Research to this point. Our big fund raiser for our chapter is the Spring Technical Conference. This year it is on Friday April 8th, so mark your calendars. We have started to round up a slate of speakers and mini seminars for the event, but have room for more. If you have any suggestions, let us know. We are going to have a meeting following the chapter meeting on February 10th to discuss the Tech Conference. Please join us if you can. We can use all the help we can get.

The only way the Tech Conference and ASHRAE Research is possible is through contributions from our business supporters and our individual contributions. Donor Recognition from ASHRAE starts at \$100 for individuals and for businesses \$250. Please consider a contribution. All of us are valued so much by the standards and guidelines that are developed by ASHRAE for our industry.

Call if you have any questions on how to contribute or if you would like to get further involved with the Tech conference.

**Ken Tewksbury
Idaho Chapter Research Promotion Chairman
562-1360 or 559-3022**

