

THE HOT AIR DIFFUSER

Chapter Newsletter

January 2018



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JANUARY ASHRAE CHAPTER MEETING

January:

Incoming ASHRAE President Sheila Hayter will be presenting on integration of renewable energy systems into buildings.

This presentation introduces technical opportunities, means, and methods for incorporating renewable energy (RE) technologies into building designs and operations. The speaker will give an overview of RE resources and available technologies used successfully in the USA to offset building electrical and thermal energy loads. Methods for applying these technologies in buildings and the role of building energy efficiency in successful RE projects will be addressed. The speaker will discuss issues related to connecting RE systems to existing electrical grids and offer tips for implementing successful RE projects. Finally, the speaker will summarize ASHRAE activities related to and/or in support of RE applications in buildings.

When:

Wednesday, January 17

11:45 am to 1:00 pm MST

Please Register online at:

www.idahoashrae.com

Where:

Idaho Power Building

1221 W. Idaho St.

Boise, ID 83702

BECOME ASHRAE CERTIFIED

<https://www.ashrae.org/education-certification/certification>

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 - January

Michael S. Jones – PE, CPMP, CEM



Speaking and working with the HVAC&R community locally here in Idaho, I'm always amazed at the talent and great ideas that come from folks in our industry. I've seen a lot of great ideas put down on paper, many great solutions implemented in the field by installing contractors adapting to field conditions. Also, controls contractors suggested altering some sequences to help make the process more efficient and equipment suppliers suggest a no or low-cost energy saving equipment option during submittals. These great ideas don't just affect the folks we are working with the bring the project to completion, our work is much more permanent in nature. Who is the real winner (or

loser) directly affected by the decisions, innovative ideas, equipment upgrades etc.? In some cases, the owner may benefit from decreased utility costs, or increased thermal comfort. In other cases, the developer could use whatever upgrade or solution to help sell the property post-development. Occupants may benefit from better indoor air quality. Often times it is a combination of all three. However, in many commercial development situations, end-users change. Tenants move out, buildings are sold, but our work still has an impact years down the line.

One great idea was showcased at a chapter meeting a few years back on a tour of the HP campus. Their O&M folks explained how they use staged outdoor air, evaporative cooling and mechanical cooling to help achieve their energy targets while keeping server rooms temperate.

On a smaller scale, how about clients on the cities geothermal return loop? Since usage is based on gallons, send that water back to the city at lowest possible temperature to minimize geothermal use and cost. Depending on whether or not a heat exchanger is involved, one could add a VFD to the pump pulling from the City geothermal loop and control speed based on leaving water temperature. Be smart with that temperature set point though.

Those that know me, know that I'm a big fan of energy recovery. How about an ERV used to pull heat off a server room and use that heat to pre-treat ventilation air provided to the adjacent office space

Be smart with your innovative ideas, a good engineer fully evaluates what the actual benefit is to the short and long term end-users. A question for you all, no gift this month but fun nonetheless. Two equipment suppliers are trapped in a conference room. The first equipment suppliers says to the other, "If you give me two of your air handling units, I'll have as many air handling units as you have". The second equipment supplier replies, "If after I give you those two air handlers, you give me two air handlers, I will have double the amount of air handlers as you have". How many air handlers did each equipment supplier have prior to any deal making?



HISTORY LESSON

January 2018

Five Years Ago

The chapter president was Randy Reed. The meeting was held on Wednesday, January 9, 2013 at the Idaho Power Building. Matt Dunay from Altenergy, Inc. presented on various solar energy systems including evacuated tubes and photovoltaics.

Ten Years Ago

The chapter president was Xenon Long. The meeting was held on Friday, January 11, 2008, at the Idaho Power Building. Jim Tarala, Huntair, gave a presentation on fan wall technology.

Fifteen Years Ago

The chapter president was Preston Nance. The meeting was held on Friday, January 10, 2003, at the Double Tree Riverside. Shirl Boyce, Vice President and Manager of the Boise Metro Chamber of Commerce, gave a presentation on the local economic outlook for the upcoming year.

Twenty Five Years Ago

The chapter president was Richard Kartchner. The meeting was held on Friday, January 15, 1993, at Edwards Restaurant in Garden City. Con Mahoney, Chief Executive Officer for Atlas Mechanical, and State Representative, talked about new legislation that might affect our industry.



Chapter News

The Idaho Chapter of ASHRAE would like to congratulate to Steve Hardy, PE on his retirement in December of 2017!

Steve entered the industry in 1984 after completing a 2 year degree from Alfred State College in AC Engineering Technology. It was at Alfred State College where Steve became a student member of ASHRAE and purchased his first ASHRAE handbook, a book he still has today. Steve began his industry career at Cornell University in Facilities Engineering. He continued to pursue an academic career earning a Bachelor of Technology degree in Mechanical Engineering Technology at Binghamton University. In 1995 Steve and his family chose to move to the greater Boise area where he began work at Engineering Consultants Incorporated. Steve has spent the last 7 years at CSHQA.

Steve believes that ASHRAE is very important to the industry. In demonstrating that importance, Steve served for 14 years as the Idaho ASHRAE chapter Historian. Following his retirement Steve plans to spend time on his passions including bicycle repair, hiking and traveling. Steve will continue to volunteer for the Boise Bicycle Project and continue his education by attending the United Bicycle Institute in Ashland, OR, to become a certified bicycle mechanic. The Idaho Chapter of ASHRAE thanks Steve Hardy for his service and wishes him well in retirement.



Grassroots News

Welcome to ASHRAE's Government Affairs Update! This bi-weekly publication features information on government affairs-related activities of interest to ASHRAE members and others interested in the built environment. Archives of previous updates are available from the Government Affairs webpage.

U.S. Government Affairs

FY2018 Federal Funding

Congress continues to work on a longer-term spending measure to carry through the end of fiscal year 2018 (September 30, 2018).

ASHRAE joined other organizations in signing a letter to the U.S. Senate and House Appropriations Committee Chairs and Ranking Members urging them to support funding for federal energy efficiency programs. The letter also asks for Congressional oversight and direction to ensure that Federal agencies abide by Congressional intent. For example, the Energy Star program does not have a line item in the budget (or in appropriations bills), and so the letter asks Congress to provide clear direction for that program.

U.S. Department of Energy Requests Input on Energy Conservation Standards

The U.S. Department of Energy (DOE) is evaluating the potential use of a market-based mechanism such as an averaging, trading, fee-based or other type of market-based policy mechanism for the U.S. Appliance and Equipment Energy Conservation Standards (ECS) program. DOE is soliciting input on this approach, and published a Request for Information, with comments due on or before February 26, 2018.

U.S. House of Representatives Committee on Science, Space & Technology Holds Hearing on Solar Energy Technology

On December 13, the Subcommittee on Energy of the U.S. House Committee on Science, and Technology will hold a hearing entitled, "Advancing Solar Energy Technology: Research Trumps Deployment." Witnesses who are testifying include Mr. Daniel Simmons, principal deputy assistant secretary, Office of Energy Efficiency and Renewable Energy, Department of Energy; Dr. Martin Keller, director, National Renewable Energy Laboratory; Dr. Steve Eglash, executive director, Strategic Research Initiatives, Computer Science, Stanford University; and Mr. Kenny Stein, director of policy, Institute for Energy Research.



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Professional Development Hours

Professional Development Hours are now available at

ASHRAE monthly meetings!



Issues registering for monthly meetings?



**Please contact Scott Stultz
scottstultz1@gmail.com**

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



Please contact Mike Jones @
mikejones@seedidaho.com for more in-
formation.

