

THE HOT AIR DIFFUSER

Chapter Newsletter

January 2019



IDAHO ASHRAE CHAPTER OFFICERS

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FEBRUARY CHAPTER MEETING

Presentation

This months presentations will take place in Idaho Falls on the 12th and Boise on the 13th

9:30am-11:30am Technical Workshop

This presentation covers the very basics of VRF – What is it? Why use it? When to use it? And maybe most importantly, when NOT to use it. The presentation will hit key highlights from VRF Chapter of the ASHRAE Handbook. In addition, this presentation covers the most important design considerations for VRF systems including common pitfalls and best practices for ventilation with VRF.

11:45am-1:00pm Chapter Lunch Meeting

If you have a never-ending to-do list, an inbox that's never empty, or a calendar that's jammed with meetings...this session is for you. Most of us don't prioritize our time well, and as a result we confuse urgent priorities with unimportant reminders or basic tasks. This can lead to procrastination on the most important work we have on our plate. In this session, we'll talk about various methods to manage your inbox, keep your to-do list organized, and be more productive.

Speaker

Pam Duffy, P.E. has over 10 years of experience in the HVAC industry. She has a mechanical engineering degree from the University of Central Florida and is a licensed P.E..

Pam is most well-known for bringing new HVAC products to life. As a seasoned product manager, Pam has been responsible for strategic direction, product roadmaps, new product development, launches and sunsets, and ongoing product category support.

Pam serves on many boards and committees in ASHRAE. She says her greatest ASHRAE achievement was winning the Chapter of the Year award after serving as President of the Atlan-

Please Register online at:

www.idahoashrae.com

Idaho Falls Meeting

WHEN: February, 12 2019 | 9:30 to 11 and 11:45am to 1:00pm MST

WHERE: North Wind Group at Taylor Crossing | 1075 S. Utah Ave, Suite 200 | Idaho Falls, ID 83402

Boise Meeting

WHEN: February, 13 2019 | 9:30 to 11 and 11:45am to 1:00pm MST

WHERE: Idaho Power | 1221 W. Idaho St. | Boise, ID 83702

PRESIDENT'S MESSAGE



Daniel C. Russell, PE, HFDP

Hello Idaho Chapter Members, I hope your 2019 is off to a rockin' good start.

Earlier this month I had the chance to meet up with a couple of our Idaho members in Atlanta during the ASHRAE Winter Meeting and AHR Expo. If you're not familiar with the annual ASHRAE events, I encourage you to check them out. The Annual Meeting is held in June each year and the Winter Meeting is held in January or February each year.

The Winter Meeting is always accompanied by the AHR Expo which is the largest HVAC industry trade show in the world with every manufacturer you could think of and more represented ranging from small booths with informational flyers to real life 1500-ton chillers, 2-story product exhibits and semi-trailers decked out with the latest HVAC products and tech.

The ASHRAE Meetings in summer and winter are the premier meeting opportunities for all of ASHRAE's standards and technical committees, most of which are open and free for members to attend which makes them very accessible for anyone to sit in and check out just how ASHRAE documents like Standard 90.1 or the Advanced Energy Design Guides or your favorite chapter of the Fundamentals handbook are being continuously developed and improved. Those meetings are also a great starting point for anyone interested in becoming more involved with ASHRAE at the society's most technical level.

If you were in attendance for our December chapter meeting, you heard our guest Distinguished Lecturer Dru Crawley share that ASHRAE has allowed him to have more industry impact than any other organization as a result of the committee process and the ability for members to contribute to real technical documents that are being published and used by engineers and agencies all over the world. You could be the next great contributor!

On top of this, the technical program provides an expansive continuing education opportunity with the presentation of current and relevant white papers, debates, case studies and workshops put on by a variety of subject-matter leaders.

Those are just a couple of opportunities for involvement throughout the year, so check out what ASHRAE has planned for conferences coming up and make plans now to take your next, or first, step toward attending the Annual or Winter meeting.

<https://www.ashrae.org/conferences/ashrae-conferences>

Thanks for all you do for your chapter and our community!



Bowling Fundraiser



February Mth

Wednesday | 6:00-8:00 PM

1385 5 Blue Marlin Ln, Meridian, ID 83642

Registration Details Can be found on the ASHRAE Idaho Website: www.idahoashrae.com

Join us for a fun evening while supporting your local chapter! Corporate or family teams encouraged to register early on the ASHRAE website, singles also welcome. 2 hours bowling, shoe rental, Tex-Mex buffet and SoX drinks included.

Early Bird Registration: Now Jan 23rd

5175 per 5-person team | 540 for singles

Normal Registration: Jan 24th Feb 1^{*}

5200 per 5-person team | 545 for singles

Membership Milestones

January 2019

New Idaho chapter members since 12/1/18

- Andrew Allen (Associate Member)
- Ryan Schwartz (Associate Member)
- Nicholas Blancett (Student - BSU)
- Leslie Cuen (Student - BSU)
- Quinton Heyrend (Student - BSU)
- Sean Meltreger (Student - BSU)
- Zoe Fleischman (Student - BSU)
- Hannah Hudson (Student - BSU)
- Andrew Brudevold (Student - Wenatchee Valley College)

ASHRAE Membership Anniversaries

5 year

- James Robinson
- Damon Woods

10 Year

- Tony Rieth
- Shrief Shrief

2018-2019 Honor Roll Donors

- ♦ Russel Pratt
- ♦ Randy Reed
- ♦ Brian Emtman
- ♦ Dan Russell
- ♦ Johnson Controls - Idaho
- ♦ Wesley Stanfill
- ♦ Andrew Beall
- ♦ Jeff Robenstein
- ♦ Chris Pollow
- ♦ Jerry Burstedt
- ♦ Dennis Fox
- ♦ Idaho Power Company



HISTORY LESSON

January 2019

Ten Years Ago

The chapter president was Jeff Fulcher. The meeting was held on January 9, 2009, with lunch held at Boondocks Fun Center. The program a tour of the piping infrastructure at Roaring Springs Water Park.

Fifteen Years Ago

The chapter president was Matthew May. The meeting was held on January 9, 2004, at the Doubletree Riverside. Dan Int-Hout, Chief Engineer, Krueger, presented at both the tech session and the meeting. His topics included air distribution, thermal comfort, acoustics, and VAV terminals.

Twenty Years Ago

The chapter president was Brent Robertson. The meeting was held on January 15, 1999, at the Doubletree Riverside. Phil Britain, Jones Boiler, gave a presentation on boiler system design and direct applications in the field.

Twenty Five Years Ago

The chapter president was Roger Albers. The meeting was held on January 14, 1994, at Edwards Restaurant. A pre-meeting technical session by Jerry Kresse covered certification requirements and procedures for those handling Freon. The meeting program was a presentation by Con Mahony, CEO for Atlas Mechanical. The topic is unknown.

Thirty Years Ago

The chapter president was Pat House. The meeting was held on Friday, January 13, 1989, at the Kings Table Restaurant. Phil Walker, Energy Policy Analyst, with Pacific NW Power Planning Council, gave a presentation on the Northwest Power Council's plan and remodel conservation standards.



Pieces of ASHRAE and HVAC&R History

Furnaces and Steam Systems

Ronald Howell, Fellow

By 1894, the year the American Society of Heating and Ventilating Engineers (ASH&VE) was born, central heating was fairly well developed. The basic heat sources were warm air furnaces and boilers. The combustion chambers of the first warm air furnaces were made of cast iron. Circulation in a gravity warm air furnace system is caused by the difference in air density in the many parts of the system. As the force of combustion is small, the system was designed to allow air to circulate freely. The addition of fans (circa 1899) to furnace systems provided a mechanical means of air circulation. Other additions to the modern furnace include cooling systems, humidification apparatuses, air distributors, and air filters. Another important step for the modern heating industry was the conversion of furnaces from coal to oil and gas, and from manual to automatic firing.

James Watt developed the first steam heating system in 1770. However, the first real breakthrough in design did not occur until the early 1900s when circulation problems in these systems were improved with the introduction of a fluid-operated thermostatic trap.

From 1900 to 1925, two-pipe steam systems with thermostatic traps at the outlet of each radiator and at drip points in the piping gained wide acceptance. In smaller buildings, gravity systems were commonly installed to remove condensate. For larger systems, boiler return traps and condensate pumps with receivers were used. By 1926, the vacuum return line system was perfected for installation in large and moderate-sized buildings.

Hot water heating systems were developed in parallel with steam systems. As mentioned before, the first hot water heating system was the gravity system. In 1927, the circulator, which forced water through the system, was added to two-pipe heating systems. A few years later, a diverting tee was added to the one pipe system, allowing for forced circulation.

During the 1930s, radiators and convectors were commonly concealed by enclosures, shields, and cabinets. In 1944, the baseboard radiator was developed. Baseboard heating improved comfort conditions as it reduced floor-to-ceiling temperature stratification.

Unit heaters and unit ventilators are two other forms of convection heating developed in the 1920s. Unit heaters were available in suspended and floor types and were classified according to the heating medium used (e.g. steam, hot water, electricity, gas, oil, or coal combustion). In addition to the heating element and fan, unit ventilators were often equipped with an air filter. Many designs provided air recirculation and were equipped with a separate outdoor air connection.

Panel heating, another form of heat distribution, was developed in the 1920s. In panel heating, a fluid such as hot water, steam, air, or electricity, circulates through distribution units embedded in the building components.



Government Affairs News

ASHRAE IDAHO CHAPTER DAY ON THE HILL

When: February 19th

Where: Idaho State Capitol Building

Jim Scarborough ASHRAE's Senior Manager of State and Local Government Affairs will be joining us for the Idaho Chapter Day on the Hill.

To make this a successful event we are looking for some volunteers. How many we need has not yet been determined. Details will be forth coming. Please contact Troy James GAC Chair if you would like to attend the Day on the Hill. 208 794-9461.

What is ASHRAE's Day on the Hill?

ASHRAE's public policy briefing and advocacy day.

A time for ASHRAE volunteers to raise awareness of ASHRAE and the issues of concern to the society.

Why should we plan a Day on the Hill?

The pre-eminent opportunity to approach elected and appointed officials and their staffs face-to-face.

An opportunity to support or oppose a particular piece of legislation on the legislative calendar.

A chance to make the ASHRAE Chapter and members the "go-to" people when issues arise in our industry in our area.



LEGISLATIVE UPDATE

Brody Aston, IDABO Government Affairs

A few of the highlights from his budget recommendation and State of the State and Budget Address today include:

- **Conservative budget:** Governor Little's FY20 budget recommendation to the Legislature leaves larger-than-normal ending balances in FY 2019 (\$97,647,500 ending balance) and FY 2020 (\$172,588,000 ending balance), laying the foundation for the grocery tax repeal in FY 2021. The conservative and responsible ending balances also enable the state to respond without disruption in services if revenue shortfalls occur. Governor Little's budget grows slower than the rate of the state's forecasted economic growth. Approximately 75-percent of the budget growth is due to population increases and maintenance of operations within agencies.
- **Proposition 2 implementation:** Governor Little's budget implements voter-passed Proposition 2 – Medicaid expansion – with a net-zero impact on the state's General Fund.
- **Teacher pay:** Governor Little recommends increasing starting teacher salaries to \$40,000. His budget provides the funding to implement the fifth year of the five-year funding plan for the teacher career ladder. He recommends new funding to recognize and financially reward outstanding teachers.
- **Investments in education:** Governor Little's budget doubles funding for literacy programs. He recommends additional funding for the popular Advanced Opportunity program for students wanting to go-on to post-secondary learning of their choice. He introduced his plans to create the Our Kids, Idaho's Future task force to come up with the next five-year blueprint for education investment and reform. He highlighted the creation of his new "Children's Cabinet" made up a broad group of education stakeholders, including parents, to advise him on a variety of education issues.
- **Higher education:** Governor Little recommends a 4.72-percent overall increase in funds for Idaho's colleges and universities, including new funds to add 19 new medical residents and fellows to address the shortage of physicians in Idaho. He proposes increasing funds available to Idaho students through the Opportunity Scholarship by \$7 million.
- **Workforce development:** Governor Little's budget authorizes spending authority to implement the first year of a new three-year Job Corps demonstration project that increases learning for out-of-school or at-risk youth. Governor Little also recommends increasing incentive funding for career technical educators as a means of boosting enrollment in workforce readiness programs. Governor Little's budget includes new positions at the Idaho Youth Challenge Academy in Pierce to keep up with the success of the program in helping high school dropouts lead productive lives.



Government Affairs News

- **First Time Home Buyers Savings Account:** Governor Little recommends establishing a program that allows first time homebuyers to reduce the cost of purchasing their first single-family home in Idaho.
- **Health and human services:** Governor Little's budget includes spending authority to create a system of preventing, monitoring and treating opioid-related addiction and carries out a grant that addresses prescription drug misuse among young people. He recommends continuing a project to update Idaho's Child Welfare Information System. He proposes additional funding for suicide prevention and establishes a new statewide program that supports family caregivers.
- **Transportation:** Governor Little's budget includes \$121,140,100 to support additional maintenance and construction projects on Idaho's roadways.
- **State employees:** Governor Little recommends funding a 3-percent Change in Employee Compensation to increase pay for State employees as a means of retaining valuable public servants.
- **Public safety:** Governor Little recommends adding 220 prisoner beds at the new North Idaho Re-Entry Center and the St. Anthony Facility Expansion. His budget adds 17 new probation and parole positions for the Idaho Department of Correction. Governor Little's budget includes four new Idaho State Police troopers, two in Pocatello and two in Coeur d'Alene. He proposes new spending to assess threats to Idaho's schools.
- **Natural resources:** The State of Idaho assumed primacy from the U.S. Environmental Protection Agency to implement the Idaho Pollutant Discharge Elimination System. Governor Little recommends the funding and new positions needed to continue the implementation. Governor Little recommends drawing down the balance in the Idaho Fire Deficiency Fund and pre-funding Idaho's future fire season costs by adding \$20,000,000 to the fund.
- **Veterans:** Governor Little recommends spending authority for the construction of Idaho's fourth veterans home to be located in Post Falls.

The members of the 65th Idaho Legislature began work last week reviewing administrative rules created in 2018 by the executive agencies. They also started reviewing budgets in the Joint Finance and Appropriations committee including the appropriations for Statewide officials including the Controller, Secretary of State and Treasurer. The Economic Outlook and Revenue Assessment Committee also submitted their revenue expectation coming in \$93.2 million below Gov. Brad Little's projections. Little's proposed budget still fits in to the lower forecast — because he called for leaving a larger-than-usual \$172.5 million year-end balance unspent at the end of fiscal year 2020. He wants to tap that to eliminate the grocery tax in 2021. The lawmakers' move cuts that projected year-end balance for 2020 to \$79.4 million.

Only one bill has been introduced thus far House Bill 001, which addresses how the Dept. of Water Resources will handle water storage and fill of the Boise River Reservoir System after a flood release in Boise River Basin 63. This was introduced by Speaker Bedke in the House Ways and Means Committee Tuesday

The full text from Governor Little's address can be found here: <https://dfm.idaho.gov/publications/exec/fy2020/budget/>



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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 ⁶ issues)
Business Card	\$10.00	\$50.00
Quarter Page	\$25.00	\$225.00 \$150
Half Page	\$40.00	\$325.00 \$240
Full Page	\$60.00	\$450.00 \$360

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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

Contact Sean Drake to add your job opening here!!!

sdrake@catorruma.com



Issues registering for monthly meetings?



Please contact Brian Emtman

brianemtman@ctagroup.com

Interested in becoming more involved with your local ASHRAE Chapter? Please contact Dan Russell @

dan@norbryhn.com

for more information.



