

THE HOT AIR DIFFUSER

Chapter Newsletter

APRIL 2017



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randy@norbryhn.com

APRIL CHAPTER MEETING

APRIL:

There will be no meeting in April. Instead Idaho ASHRAE is holding the Annual Technical Conference. Please visit www.idahoashrae.com for more information.

Where:

Riverside Hotel
2900 W Chinden Blvd.
Boise, ID 83714

When:

Friday, April 214, 2017
7:30 am to 5:30 pm MST

Please Register online at:

www.idahoashrae.com

MARCH:

The March meeting was a roundtable discussion on VRF systems. The discussion was moderated by the Idaho Chapter. During the discussion, the panel answered questions asked by the moderator. The last 10 minutes of the discussion were open for more questions from audience to the panel. The panel was formed of industry experts from 6 different VRF manufacturers; Daikin, Lennox, LG, Mitsubishi, Samsung and Toshiba-Carrier.

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

A Building Operators' View on Plans and Specifications- Suggestions and Advice for Design Engineers.

Design engineers have a tough job. Mechanical building systems are growing evermore intricate. Technological advancements are consistently pushing mechanical equipment to increase in efficiency, functionality and complexity. This article is meant to humbly offer suggestions to design engineers with an understanding that we all must work together for high quality buildings.

Equipment placement can make all the difference to whether the units can be fully serviced or not. In new commercial facilities there is a desire towards aesthetics that can be less than practical for equipment servicing. As we all know; when serviceability is compromised, reduced performance is the outcome. Please take the time to assure that additional code requirements do not become necessary simply to provide for safe and practical equipment access.

Meeting a facilities designed, or modeled energy usage index is becoming more an expectation than a desire. Due to equipment performance degradation over time; the design should take into consideration, and allow for some loss of performance, assuring that the EUI cannot only be met but sustained.

The integration of controls components has a higher success rate when a controls contractor is involved from the schematic design of a project, through its completion. The end result(s) historically take less of everyone's time, provide trackable usage of the equipment installed, protect a variety of warranty concerns including the OEM, and/or provide warranty proof to the OEM of proper equipment operation.

A lack of isolation valves in hydronic applications will certainly lower the installation cost(s) and may get a project completed under budget, but the cost savings stop there. It may be soon after a job is completed, or years after all warranties have expired, but the proof of a system designs quality will be evident the first time a hydronic loop has to be fully drained to replace one component. Estimators may assist the design engineer(s) by identifying the value of isolation valves, or assuring that equipment specified includes all valves required for the equipment to reach its full service life.

Tom Coles IBOA



HISTORY LESSON

APRIL

Ten Years Ago

The chapter president was Arden Davis. The meeting was held on Friday, April 13, 2007, at the Foothills Learning Center. Scott Gates, Idaho Power, gave a presentation on the usage of a fuel cell and solar panels to power the facility.

Fifteen Years Ago

The chapter president was Greg Hobbs. The meeting was held on Friday, April 12, 2002, at the Doubletree Riverside. Michael Gifford, Executive Vice President of the Idaho Association of General Contractors, discussed current activities of the AGC including recent changes and new services available online.

Twenty Years Ago

The chapter president was Chuck Keene. The meeting was held on Friday, April 11, 1997, at Zilog in Nampa. There was a slide show presentation during lunch, with a guided tour of the Zilog facility following lunch.

Twenty Five Years Ago

The chapter president was Ken Tewksbury. The meeting was held on Friday, April 10, 1992 at the King's Table Restaurant. Gerald Fleishman, from the Water Resources Board, gave a presentation on cogeneration using waste heat to produce electricity.

Thirty Years Ago

The chapter president was Adrian Fannin. The meeting was held on Friday, April 10, 1987, at the Kings Table Restaurant. Nathan Gellert and Bob Drake gave a presentation on refrigeration for ventilated potato storage buildings.





2017 ASHRAE Tech Conference

Friday, April 14, 2017

Register now online, www.idahoashrae.com

2017 CONFERENCE LOCATION

Riverside Hotel • 2900 W Chinden • Boise, ID 83714

7:30am - 5:30pm

REGISTRATION FEES

• member \$125 • non-member \$150 • Registration includes breakfast, lunch, social hour and raffle entry.

BREAKFAST PLENARY SESSION

Jim Vallort: Primary Heating/Cooling Plant Strategies to Maximize Energy & Financial savings 1.5 PDH, 1.5 LU/HSW

SYSTEMS OPERATION POD

Retro Cx Case Study/A Building Operator's Perspective
Speaker: Jesse Barnum

-BREAK-

Hydronic System Design and Control Considerations
Speaker: Bob Sorenson

IAQ POD

What you need to know about ASHRAE IAQ:
Speaker: Hoy Bohanon Jr.

-BREAK-

Cold Plasma Bi-Polar Ionization to Improve IAQ
Speaker: Jeff Jarvis

LUNCH WITH ASHRAE DISTINGUISHED LECTURER: HOY R. BOHANON

Commissioning, Operating and Maintaining Air-to-Air Energy Recovery Systems

RAFFLE & VISIT BOOTH EXHIBITS

ENHANCED BUILDINGS POD

Intelligent Buildings: Speaker: Jim Vallort

-BREAK-

Underfloor Air Distribution Systems
Speakers: Jack Geortner/Kevin Pedrigi

ADVANCED HVAC POD

ASHRAE 90.1 Compliant Laboratories: Speaker: Rafael Sabia

-BREAK-

Variable Frequency Drive Harmonics and IEEE 519
Speaker: Larry Gardner

SOCIAL HOUR - SPONSORED WITH SNACKS & OPEN BAR

*****Up to 7 PDH Credits Available*****

Visit the Idaho ASHRAE web page for more info and registration.

www.idahoashrae.com • 208.780.0434 • mikep@norbryhn.com

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In the Community to Serve®

ASHRAE Idaho Chapter

GOLF TOURNAMENT

- 4 PERSON SCRAMBLE TO BENEFIT THE IDAHO CHAPTER

WHERE: EAGLE HILLS GOLF COURSE

WHEN: 1:00 PM, FRIDAY, JUNE 23rd, 2017 SHOTGUN START

FOOD: BARBECUED HAMBURGERS, CHIPS, AND SALAD WILL BE SERVED FOR DINNER FOLLOWING THE TOURNAMENT.

PRICES: EARLY BIRD COSTS: \$100 PER PERSON, \$400 PER TEAM
AFTER June 2nd COSTS: \$110 PER PERSON, \$440 PER TEAM
- SINGLE PLAYERS WELCOME!
-\$15.00 FOR ADDITIONAL DINNER GUESTS

INCLUDES: 18 HOLES OF GOLF, CART, GOLF BALLS ON THE RANGE, FOOD, DRINKS, DOOR PRIZES, AND A \$10,000 HOLE IN ONE PRIZE

SPONSORS: TEE OR GREEN COMPANY LOGO SIGN-\$150
**INCLUDES ONE TEE OR GREEN SPONSOR SIGN WITH COMPANY LOGO*

TEE AND GREEN LOGO SIGNS-\$250
**INCLUDES ONE TEE AND ONE GREEN SPONSOR SIGN WITH COMPANY LOGO*

HOLE-IN-ONE PRIZES-\$500
**INCLUDES FOUR PRIZE SIGNS WITH COMPANY LOGO. INSURANCE FOR PRIZES IS INCLUDED IN THIS COST.*

INTERACTIVE DISPLAY BOOTH-\$400
**INCLUDES TEE OR GREEN SPONSORS SIGN WITH COMPANY LOGO, INTERACTIVE DISPLAY ON SELECTED TEE OR GREEN(FIRST AVAILABLE), AND 2 DINNERS*

TITLE SPONSORSHIP FOR DINNER PLATINUM LEVEL -\$1,000
**INCLUDES 6'x3' BANNER AT CLUBHOUSE, BRANDING ON ALL SCORECARD AND INSTRUCTION SHEETS AND 5 MINUTES FOR ADDRESSING TO THE GROUP AT DINNER*

TITLE SPONSORSHIP FOR DINNER SILVER LEVEL -\$500
**INCLUDES 4'x2' BANNER AT CLUBHOUSE, BRANDING ON ALL SCORECARD AND INSTRUCTION SHEETS*

DEADLINE FOR REGISTRATION AND SPONSORS
IS JUNE 16, 2017

TO REGISTER, PLEASE GO ONLINE TO www.idahoashrae.com AND PROCEED TO THE EVENTS CALENDAR WHERE YOU CAN FIND ALL BILLING INFORMATION. HANDICAPS FOR ALL PLAYERS WILL BE NEEDED TO COMPLETE THE FORM WITH A MAXIMUM OF 30. IF YOU NEED FURTHER ASSISTANCE OR ARE A SINGLE PLAYER WANTING TO BE PLACED ON A TEAM, PLEASE COORDINATE WITH SPENCER SHEPARD- EMAIL: spencers@ctagroup.com, PH#: 208 336-4900

ASHRAE Learning Institute

2017 Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

Phone: Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

One-part course (3 hours) **\$284 (\$219 ASHRAE Member)** – -- -- Two-part course (6 hours) **\$484 (\$359 ASHRAE Member)**

NEW! **Complying with Standard 90.1-2016: Envelope/Lighting**
Wednesday, April 5, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! **Complying with Standard 90.1-2016: HVAC/Mechanical**
Tuesday, April 11, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! **Complying with Standard 90.1-2016: Appendix G**
Tuesday, April 18, 2017 – 1:00 p.m. to 4:00 p.m.

Air-to-Air Energy Recovery Fundamentals
Wednesday, May 3, 2017 – 1:00 p.m. to 4:00 p.m.

Air-to-Air Energy Recovery Applications: Best Practices
Tuesday, May 9, 2017 – 1:00 p.m. to 4:00 p.m.

Humidity Control: Basic Principles, Loads and Equipment
Tuesday, June 13, 2017 – 1:00 p.m. to 4:00 p.m.

Humidity Control: Applications, Control Levels and Mold Avoidance
Tuesday, June 20, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! **New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs**
Tuesday, July 11, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! **Variable Refrigerant Flow System: Design & Application**
Tuesday, July 18, 2017 – 1:00 p.m. to 4:00 p.m.

Advanced High-Performance Building Design
Wednesday, August 9, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! **Fundamental Requirements of Standard 62.1-2016**
Wednesday, September 6, 2017 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond
Tuesday, October 10, 2017 – 1:00 p.m. to 4:00 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems
Monday, October 16, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! **Complying with Standard 90.1-2016**
Part I: Wednesday, November 1, 2017 – 1:00 p.m. to 4:00 p.m.
Part II: Tuesday, November 7, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! **Variable Refrigerant Flow System: Design & Application**
Wednesday, November 29, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! **New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs**
Tuesday, December 5, 2017 – 1:00 p.m. to 4:00 p.m.

ASHRAE HVAC Design & Operation Training

3 Courses, 7 Days of Intense Instruction

Atlanta • Chicago • Denver • Hartford • Seattle • Toronto

Improving Existing Building Operation - Registration is \$599 (\$499 ASHRAE Member)

Identify ways to improve existing HVAC system efficiencies and reduce utility expenses while maximizing performance of the building systems. This training details proper system operation and maintenance and introduces methods for evaluating potential system improvements.

HVAC Design: Level I – Essentials - Registration is \$1,264 (\$1,009 ASHRAE Member)

Gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II – Applications - Registration is \$854 (\$699 ASHRAE Member)

HVAC Design: Level II — Applications provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit www.ashrae.org/hvactraining to register and learn how your Chapter can earn PAOE points.

Contact Karen Murray (kmurray@ashrae.org) to discuss scheduling ASHRAE HVAC Training in your Chapter area.

CSHQA and the Idaho Chapter of ASHRAE will host a viewing of the 2017 ASHRAE Webcast "Take Control: Using Analytics to Drive Building Performance" on Thursday April 20th, 2017. Please bring your lunch and join us at CSHQA office in Boise (200 Broad St., Boise, ID 83702). The Webcast starts at 11:00 am (MDT). The event is Free and invitation is open to ASHRAE members and non-

Take Control: Using Analytics to Drive Building Performance

April 20th, 2017 • 1:00 – 4:00 PM EDT

This webcast will feature industry experts who will define the importance of, and why we should strive for, better building operations through improved controls and analytics. Viewers will be able to describe key elements of controls and analytics for building operations, and identify steps required to deploy analytics in building projects, including commissioning. This program will quantify how applying best practice controls improve building performance, and will recognize the value of analytics in building operations to achieve a reduced cost and increased performance.

Attend this FREE webcast program and you may be awarded three Professional Development Hours (PDHs).

Opening remarks by:



Timothy Wentz, P.E.,
Fellow ASHRAE, HBDP



Mark Gallagher



Srinivas Katipamula,
Ph.D., Fellow ASHRAE,
FASME



Jim Meacham, P.E.

www.ashrae.org/webcast



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*renewals are due now

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



Professional Development Hours

Professional Development Hours are now available at
ASHRAE monthly meetings!





Thank you for connecting with the Intermountain Building Operator Association, a licensed BOC training provider!

BOC certified building operators stand out from the crowd. To learn more about the BOC curriculum, upcoming course dates, or to register, visit www.intboa.org/trainings-events/

If you're a building operator or facilities manager, you know firsthand the rapid pace at which this industry is changing. Managing commercial and industrial facilities means maintaining, operating, and repairing HVAC, electrical and plumbing systems, among numerous other responsibilities. With the Building Operator Certification (BOC) credential, you can learn essential skills to improve operations, reduce energy usage, and save your employer an average \$20,000 per year.

The BOC credential takes a "whole building" approach to facilities maintenance with an engaging curriculum that covers all aspects of building operation. Those with the BOC credential typically engage energy efficient operation and maintenances practices 30 percent better than the rest of the market, saving an average 2.5 cents/sf in electricity costs.

Partial and full tuition scholarships are available for those that qualify. To learn more about scholarship opportunities, or if you have any other questions, contact Clarence Wieting at iboa@intboa.org.

For more industry news and training dates, sign up for the bi-annual [BOC newsletter](#).

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

Issues registering for monthly meetings?



**Please contact Sean Drake @
sean@fulchereng.com**

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

Please contact Casey Huffaker
@ chuffaker@siglers.com for
more information.



