

THE HOT AIR DIFFUSER

Chapter Newsletter

NOVEMBER 2015 Volume 22 Issue 3



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NOVEMBER CHAPTER MEETING

NOVEMBER: TAB

The November 2015 monthly Idaho ASHRAE meeting will take place at the Idaho Power headquarters. David Kirkham with Building Systems Technologies (BST) will be our guest speaker. BST is a Testing, Adjusting, and Balancing (TAB) company as well as commissioning provider. Since TAB companies and commissioning authorities are usually the last entities on projects, they tend to find all kinds of "interesting" things. David will illustrate examples of such findings and discuss ways we can reduce the both the energy consumption and economic impact on projects. He calls it the "80/20 split" and assures that it will be beneficial to our diverse membership.



Please Register online at:
www.idahoashrae.com

When:

Wednesday, December 9th, 2015
11:45am to 1:00 pm MST

Where:

Idaho Power
1100 N. 20th St
Boise, ID 83720

OCTOBER: TOUR

The October 2015 monthly ASHRAE meeting was hosted at Johnson Thermal Systems. A tour of the process chiller plant included explanation of the custom chiller specification process, also how they are built and tested"



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

NOVEMBER

Five Years Ago

The chapter president was Carl Marcum. The meeting was held on November 10, 2010, at Idaho Power. William J. England, Hydronics Training Manager for Flow Design, Inc., gave a presentation on the challenges faced in developing an effective solution to balancing for variable flow.

Ten Years Ago

The chapter president was Bob Tikker. The meeting was held on November 11, 2005, at Idaho Power. Edward L. Fronapfel, Principal of Professional Investigative Engineers, spoke on forensic engineering for building inspections.

Fifteen Years Ago

The chapter president was Ben Kohler. The meeting was held on November 17, 2000, at the Doubletree Riverside. The program was an International Mechanical Code review presentation.

Twenty Years Ago

The chapter president was Jon Mason. The meeting was held on November 10, 1995, at Micron and included a tour of the Micron facility.

Twenty-Five Years Ago

The chapter president was Scott Richardson. The meeting was held on November 9, 1990, at the King's Table Restaurant. Al Terry, VP of Marketing for Rapid Engineering, Grand Rapids, MI, gave a presentation titled "Direct Fired Heating and the Pressurization Concept".

Thirty Years Ago

The chapter president was Dave Asmus. The meeting was held on November 8, 1985, at the Intermountain Gas Company Hospitality Room. Lloyd Little, Intermountain Gas Company, gave a presentation on high efficiency furnaces.

The Fall Social was held on Saturday, November 30, 1985, at the Owyhee Plaza Hotel with entertainment provided by a magician, a mime, and an impersonator. According to the official Idaho Chapter history records, Steve Bastian got his coat back expecting to find a hole burned in it (must have been an illusion), and Brad Bird had to take Comet cleanser to his bald head to get all the lipstick off.

NEWS FROM THE HOME OFFICE

New Course on Legionella Standard among ASHRAE 2016 Winter Conference Courses

ATLANTA – Guidance on how to reduce the risk of Legionnaires' Disease via a recently published standard will be shared in a new course from ASHRAE at its 2016 Winter Conference. The course is one of 20 courses being presented at the Conference and AHR Expo.

"We've already seen the real-life application of this standard when sections of it were adopted by the New York City Council following a deadly outbreak there," Bill Pearson, course instructor who serves on the Standard 188 committee. "This course is designed to help prevent future outbreaks by showing the industry how to navigate the standard."

The Conference takes place Jan. 23-27, Orlando Hilton, while the ASHRAE co-sponsored AHR Expo takes place Jan. 25-27, next door at the Orange County Convention Center. To register for the ASHRAE Conference, which includes free access to the Expo, visit www.ashrae.org/orlando.

ASHRAE Learning Institute (ALI) is offering 20 high-quality, authoritative Professional Development Seminars and Short Courses. ALI courses provide training with real-world experiences for immediate application. Attendees can earn continuing education credits. For more information or to register, visit www.ashrae.org/orlandocourses.

The new half-day Short Course, ASHRAE Standard 188-2015 – Successfully Managing the Risk of Legionellosis, focuses on ANSI/ASHRAE Standard 188-2015, *Legionellosis: Risk Management for Building Water Systems*, which establishes the minimum legionellosis risk management requirements for the design, construction, installation, commissioning, operation, maintenance and service of centralized building water systems and components. Michael Patton, a member of the Standard 188 committee, also is an instructor of the course.

Attendees will learn how to use and comply with the standard; where Legionella propagates and who is at high risk for legionellosis; how to create a workable Legionella water management plan; and the responsibilities of project engineers and designers.

AHRAE Extends Deadline for Call of Paper for IAQ 2016 Conference

ATLANTA – A call for papers for the IAQ 2016 Conference, "Defining Indoor Air Quality: Policy, Standards and Best Practices," co-organized by ASHRAE and AIVC, has been extended until Nov. 30, 2015.

The conference will take place Sept. 12-14, 2016, in Alexandria, Va. at the Crowne Plaza Old Town Alexandria. To submit an abstract or for more information, visit www.ashrae.org/IAQ2016.

The conference is the 18th in the ASHRAE IAQ series since its inception in 1986 and the 37th AIVC conference. The program will focus on current and emerging definitions of indoor air quality and how they are – or could be – implemented in government policies and in standards for the design and operation of buildings and other indoor environments used worldwide. IAQ 2016 will also highlight best practice solutions that go beyond existing minimum requirements.

Authors are invited to submit papers on the following topics and others appropriate to the Conference theme:

- Definitions and metrics
 - Perception vs. performance
 - Monetization of IAQ
 - DALY (disability adjusted life years) and related approaches
 - Task performance/productivity
 - Integrated IEQ metrics
- Regulatory vs. voluntary compliance for achieving IAQ
- IAQ certification programs
- Low energy/high performance buildings and IAQ
- IAQ in sustainable building programs
- Interactions: IEQ, climate change, energy efficiency
- Monitoring
 - Sensors and big data
 - Post occupancy evaluations
- Best practices
 - Case studies with data
 - Design, construction, operation
 - Commissioning
- Ventilation and infiltration
 - IAQ, energy and moisture impacts
 - Mechanical and natural ventilation performance
 - IEQ and natural ventilation
 - IAQ and building/ductwork airtightness
- Residential IAQ standards and policies
- IAQ in Developing Economies
- IAQ in mobile environments: aircraft, trains, ships, motor vehicles

NEWS FROM THE HOME OFFICE CONTINUED...

ASHRAE Celebrated Future of Engineering Innovation as Solar Decathlon Sponsor

ATLANTA – Innovative systems and interaction with future leaders of the built environment industry were among the highlights for ASHRAE members who took part in the recent U.S. Department of Energy Solar Decathlon.

As a sponsor, ASHRAE helped fund events at the Decathlon, which took place Oct. 8-18, 2015, at Orange County Great Park in Irvine, Calif. ASHRAE has been involved in the event for some 10 years.

The Decathlon challenges collegiate teams to design, build and operate solar-powered houses that are cost-effective, energy-efficient and attractive. Stevens Institute of Technology won top honors overall, sweeping all four juried categories, by designing, building, and operating the most cost-effective, energy-efficient and attractive solar powered house.

ASHRAE provided a judge on the engineering jury, with other juries focused on architecture, market appeal and communications. Ginger Scoggins, P.E., is ASHRAE Region IV director and regional chair on the Board of Directors. Michael J. Brandemuehl, Ph.D., P.E., a former director-at-large on the ASHRAE Board of Directors also served as a judge.

“It was extremely enjoyable,” Scoggins said. “The enthusiasm of the students and the systems that they included in their houses were very innovative! These kids worked on these houses for two years and raised money to cover the costs of construction and shipment, which ran in the \$300,000 range for most of the homes.”

Scoggins said some of the innovative systems she saw included:

- Houses designed to withstand natural disasters (100 percent waterproof up to 4' above grade)
- Windows with the same thermal resistance as typical building walls
- Grey water and rainwater collection and treatment systems, some with heat recovery
- Radiant heating and cooling systems – both floors and ceilings
- Evaporative cooling systems that displace and enhance conventional air conditioners

- Lots of heat pump technologies for both water heating and space conditioning
- Phase change material for energy storage
- Thermal energy storage using water tanks, including one integrated with rainwater collection
- A freeze tolerant solar water heating system
- Integrated solar PV and water heating equipment
- PV cells integrated into awnings and building glass
- A forward looking electrical system with both AC and DC distribution
- A variety of smart home energy monitoring, control, and dashboard systems

Design Build Sessions Offered by ASHRAE at AHR Expo

ATLANTA – Four sessions focused on design build are being offered for free at the AHR Expo as part of the ASHRAE 2016 Winter Conference.

The Conference takes place Jan. 23-27, Orlando Hilton, while the ASHRAE co-sponsored AHR Expo takes place Jan. 25-27, next door at the Orange County Convention Center. To register for the ASHRAE Conference, which includes free access to the Expo, visit www.ashrae.org/orlando. Information about the Expo can be found at www.ahrexpo.com.

The Technical Program features eight tracks, some 100 sessions and more than 300 speakers. It runs Sunday, Jan. 24 through Wednesday, Jan. 27

, and offers over 200 Professional Development Hours, as well as Continuing Education Units, which can be applied toward a Professional Engineering license in many states, including the state of Florida.

Four sessions are being offered at no cost at the AHR Expo. The three seminars and one workshop are all part of the Design Build track.

“ASHRAE is always looking for opportunities to improve the Technical Program, and at the same time, to include the theme of the Society president,” Jennifer Leach, Conference chair, said. “ASHRAE President David Underwood spent much of his career as a design-build contractor and suggested the Design Build track. Offering these programs at the Expo is a win-win given its close proximity to ASHRAE Conference at the hotel next door. ASHRAE gets an opportunity to reach out to its contractor members and engineers now have another reason to attend the Expo.”

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!



Issues registering for monthly meetings?



Please contact Katie Leichter @
kleichter@uidaho.edu

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.





ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference in Orlando, FL

2 WAYS TO REGISTER

Internet: www.ashrae.org/orlandocourses

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

Full-Day Professional Development Seminars

\$485/\$395 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs

Commercial Building Energy Audits

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

Energy Modeling Best Practices and Applications

Tuesday, January 26, 2016 – 9:00 a.m. to 4:00 p.m.

Commissioning Process in New & Existing Buildings

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

Operations & Maintenance of High-Performance Buildings

Tuesday, January 26, 2016 – 9:00 a.m. to 4:00 p.m.

Designing HVAC Systems to Control Noise & Vibrations

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

Half-Day Short Courses

\$159/\$119 ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs

Laboratory Design: The Basics and Beyond

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Advoiding IAQ Problems

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Troubleshooting Humidity Control Problems

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Commissioning Process & ASHRAE Standard 202

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Understanding & Designing Dedicated Outdoor Air Systems

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Complying with Standard 90.1-2013: HVAC/Mechanical

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Variable Refrigerant Flow System Design & Applications **NEW!**

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Evaluation and Control of Legionella in Building Water Systems **NEW!**

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Air-to-Air Energy Recovery Applications: Best Practices

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

Exceeding Standard 90.1-2013 to Meet LEED Requirements

Monday, January 26, 2016 – 9:00 a.m. to 12:00 p.m.

Applications of Standard 62.1-2013

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

IT Equipment Design Evolution & Data Center Operation Optimization

Monday, January 26, 2016 – 9:00 a.m. to 12:00 p.m.

Building Demand Response & the Coming Smart Grid

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

Designing High-Performance Healthcare HVAC

Monday, January 26, 2016 – 1:00 p.m. to 4:00 p.m.

Energy Management Best Practices

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

ASHRAE HVAC Design Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Halifax • Hong Kong • Houston

Kuala Lumpur • Miami • Minneapolis • Vancouver

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.

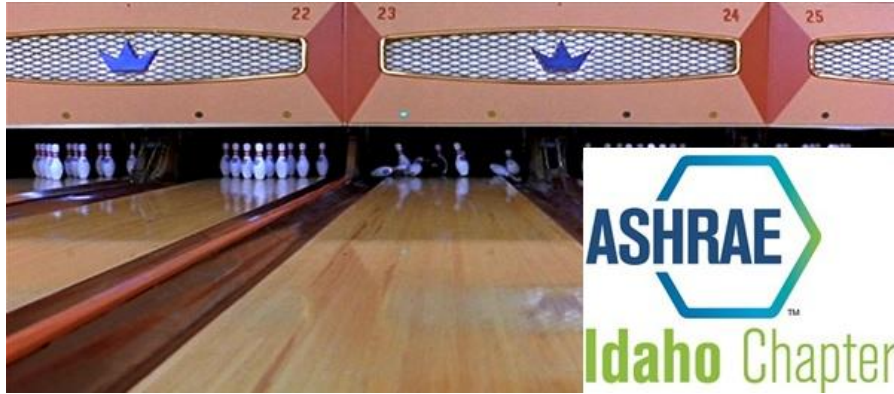
Following the monthly meeting we will have our donor recognition of the Research Promotion Donors from last year. Please join us to support those receiving recognition.

The following page lists the donors from last year.

Thank you so much for your generosity!

2014-2015

Company or Individual	Contact Name	2014-2015 Campaign
Technical Air Products	Mr. Bradley L. Bird	150
Tikker Engineering	Mr. Robert D. Tikker	150
SEEDIDAHO P.C.	Mr. Michael S. Jones, CEM, LEED AP	150
FM Sheet Metal – Boise	Mr. Greg E. Fannin	150
Col. Hydronics	Mr. David R. Prohl	150
Trane – Boise	Mr. Gordon Shields	150
Mr. Randy R. Reed		100
Mr. Dennis K. Fox		100
Mr. Brad V. Acker		100
Mr. Michael S. Jones, CEM, LEED AP		100
Mr. Casey A. Huffaker		100
Mr. Jeffrey M. Robenstein		100
Mr. Carl H. Marcum		100
Mr. Cory W. Law		100
Engineering – Boise	Mr. Michael L. Wisdom	250
Felts House Engineering	Mr. Patrick L. House	250
NWest Service Technologies	Mr. Benjamin R. Seitz	250
Ms. Katrina J. Lechliter		200
Ro Bar Technical Services	Mr. Barry G. Fitzgerald	150
A & H Supply	Mr. Greg F. Hobbs	150
Innovative Air	Mr. Keith Hickerson	150
Johnson Controls – Idaho		150
Mr. Xenon A. Long		100
Mr. James B. Robertson		100
Mr. Russell C. Pratt		100
Mr. Daniel C. Russell		100
Sabol & Rice of Idaho – Boise	Mr. Scott R. Schlagel	350
Mr. Ben F. Kohler		290
Clima-Tech Corporation	Mr. Darwin G. Roy	250
Company	Contact Name	2014-2015 Campaign
Midgley Huber – Boise	Mr. Ben Hill	875
Robertson's LLC	Mr. James B. Robertson	750
Musgrove Engineering	Mr. David O. Musgrove	650
Building Systems Technologies		525
YMC Inc	Mr. Xenon A. Long	500
ATS – Boise	Mr. William A. Kissinger	500
Johnson Thermal Systems		500
Intermountain Gas	Mr. Randy Morgan	1250
Norbryhn Equipment	Mr. Michael L. Norbryhn	1000
Idaho Power		1500



First Annual ASHRAE Scramble Bowling Fundraiser

Thursday – December 3rd, 2015

6:00 PM – 8:00 PM

AT



1900 N. Eagle Rd, Meridian ID 83646

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. There will be a lane dedicated for the kids. Pizza, Soft drinks and Bowling Shoes included.

\$150/team or \$30 for singles