

THE HOT AIR DIFFUSER IDAHO CHAPTER NEWSLETTER

NOVEMBER 2009



VOLUME 16 ISSUE 3



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PRESIDENT'S MESSAGE

Calling all ASHRAE Idaho Chapter members!

WE NEED YOUR HELP! As our calendar year approaches its end, the Board of Governors is planning for next year and preparations are underway for several events. Two dates to mark down on your calendar include the annual golf tournament which will be held on Friday, June 18, 2010 at Eagle Hills Golf Course and the annual Technical Conference which will be held on Friday, May 21, 2010 at the Oxford Suites Hotel. In an effort to make these events a success, several committees are being established to undertake planning, organizing, and fundraising. If you have a desire to help your local ASHRAE chapter this would be a great way to get involved. Any amount of help or input would be greatly welcomed. There are a number of members who used to frequent our meetings that have since become scarce in their attendance. What can our chapter do for you? How can we get you back to the meetings and participating in our events? These are questions our chapter must answer to continue to thrive in our current environment. Without our members our organization cannot exist. I encourage everyone to get involved in some fashion. It will be rewarding and benefit you in the long run.

THANK YOU INNOVATIVE AIR!!

I want to send a big thank you to George Masing and Innovative Air, Inc. for hosting a social night last Friday, November 6 at their offices. The night was a success and we were able to bring in a few newer members for participation. I think everyone who attended had an enjoyable time. Thank You!

Spencer Shepard, PE
President
Idaho Chapter ASHRAE



NOVEMBER PROGRAM

For this month's meeting we have invited Tom Zabala and Steve Turney with ZGA Architects to join us for a round-table discussion regarding project interaction between architects and the HVAC design team. Most of us in the HVAC design/supply industry rely on architects for the majority of our work so keeping them satisfied most often will affect whether you get the next job or not. Tom and Steve have agreed to come and talk about things that they desire from the HVAC design team based on both good and bad experiences that they have had on past projects. They also will accept comments from the audience on issues that they as architects could do better to make the HVAC design team's job easier. This should be a great learning experience for everyone and we look forward to seeing you at the meeting. Please RSVP*

-Rick Goeres, CTTC Committee

**WHEN: FRIDAY, November 13, 2009
11:45AM—1PM**

**WHERE: Idaho Power Bldg.
1221 W. Idaho Street
Boise, ID**

**Important notice regarding this month's program: in an effort to save money, from this meeting forward, all members will be required to RSVP (at www.idahoashrae.com) for each month's meeting so that the correct amount of lunches may be ordered.*

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Sabol & Rice of Idaho

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ACCESS DOORS

ACUDOR - Duct, Architectural and Fire Rated Access Doors
NAILOR - Duct and Fire Rated Access Doors

AIR CONDITIONERS/HEAT PUMPS

ESSICKS - Evaporative Cooling Solutions
RETROAIRE - Replacement Package Terminal Air Conditioners and Heat Pumps
*SPACEPAK - High Velocity Central A/C System

AIR DISTRIBUTION

AIROLITE - Louvers, Perforators
AJ MANUFACTURING - Stainless Grilles & Diffusers
AMERICAN WARMING - Industrial Dampers
*NAILOR - Grilles, Diffusers, VAV Boxes, Dampers
WESTERN CANWELL - Ridge Ventilators

AIR DUCT

*FLEXMASTER USA - Insulated, Acoustic Flex Duct

AIR HANDLERS

*ESSICK - Evaporative Coolers
*HASTINGS - Duct Fans, Make-up Air
RAPID - Gas-Fired Make-up Air and Evap. Cooling
SEASONS 4 - Custom-built HVAC specialty equipment and direct replacement of existing multi-speed, single speed indoor and roof top units.
WESTAIRE - Indirect/Direct Evap Coolers

AIR MONITORS

AIRTEST - Gas Monitors and Transmitters

AIR / WATER FILTRATION

FLANDERS - Filters (Bag, Cartridge, HEPA), Housings
PEP FILTRATION - Commercial and Industrial Filtration
PUROFLUX - Process and Cooling Water Filtration Systems
STERIVENT - Dust Collectors

BOILERS/BURNERS

CHROMOLOX - Electric Boilers and Steam Generators
PARKER BOILER - Flexible Tube Boilers
WEBSTER - Forced Draft Burners
WEIL MCCLAIN - Boilers for every application, with unmatched reliability.

COMPRESSORS

*KAESER - 3-600 HP Rotary Screw

CRITICAL AIRFLOW CONTROLS

TEK - AIR - Airflow Measurement and Control for Indoor Air Quality and Energy Consumption

ENCLOSURES

SPIDNAKER - Rooftop Screening Systems, Welded Wire Partition Systems

EXHAUST SYSTEMS

VAN-PACKER - Exhausting & Venting Stacks

FANS AND BLOWERS

*ACME ENGINEERING - Roof Exhausters, Fans, Blowers
AMERICAN COOLAIR - Propeller Fans
BROAN - Ventilation Fans, Heaters and Attic Ventilation
ILG - Propeller Fans
NUTONE - Ventilation Fans, Heaters and Attic Ventilation

HEAT TRANSFER

ALFA-LAVAL - Plate Heat Exchangers
BALTIMORE AIRCOIL - Cooling Towers
CC SOLUTIONS - Field-Erected Cooling Towers
RENEWAIRE - Energy Recovery Ventilators
SPIDNAKER - Energy Recovery Ventilators
SUPER RADIATOR - Industrial Coils
THERMAL - Condensers, Fluid Coolers
WATTS RADIANT - Radiant heat solutions from hydronic and electric radiant floor heating and snow melt systems

HUMIDITY CONTROL

DESERT AIRE - Refrigeration Dehumidifiers
*VAPAC - Steam Humidifiers

KITCHEN HOODS

CAPTIVE-AIRE - Nation's leading manufacturer of commercial kitchen ventilation systems
GAYLORD - Commercial Kitchen Ventilation Systems

PUMPS / WATER SPECIALTIES

BARNES - Waste Water Pumps
BLACKMER - Positive Displacement Pumps
HCI - Terminal Valve Kits
*PEERLESS - In-line, End Suction, Multi-Stage Pumps
WHEATLEY - Exp. Tanks, Heat Exchangers

SOUND / VIBRATION CONTROL

AEROSONICS, INC. - Duct Silencers
*M.W. SAUSSE - Spring Isolators

SPACE HEATERS

CHROMOLOX - Solutions for industrial heating applications
NAILOR - Electric Duct Heaters
Q-MARK - Electric Space Heating
REDD-I - Electric Space Heating
RUFFNECK - Explosion-Proof Heaters
SOLARONICS - Gas Infra-red Heaters

*Stocked Lines (Boise and/or Salt Lake City)

HISTORY LESSON

Five Years Ago

The chapter president was Tony Sutton. The meeting was held on November 12, 2004, at the Bank of America Centre. The program was a tour of the Bank of America Centre ice hockey arena.

Ten Years Ago

The chapter president was Ben Strawn. The meeting was held on November 12, 1999, at the Doubletree Riverside. Dan Taylor and Jack Hughs, Norco, gave a presentation on cryogenics and its application to our industry, including a demonstration of liquid nitrogen.

Twenty Years Ago

The chapter president was Dave Musgrove. The meeting was held on November 10, 1989, at the Kings Table Restaurant. The program was a panel discussion on system commissioning. The panel consisted of Don Wisdom, Engineering Inc., representing mechanical engineers; Bob "Stub" Clarkson, Ro-Bar Technology, representing the balancing engineers; Ray Hoobing, CM Corporation, representing the general contractors; Lynn Jones, Idaho Department of Public Works, Idaho Falls, representing the owners; and Roger Albers, Engineering Inc., moderator.

IMPORTANT DATES

NOVEMBER 13, 2009—ASHRAE Chapter Meeting

NOVEMBER 26, 2009—THANKSGIVING

DECEMBER 11, 2009—ASHRAE Chapter Meeting

DECEMBER 25, 2009—CHRISTMAS DAY

QUOTE OF THE MONTH

“Every man's life ends the same way. It is only the details of how he lived and how he died that distinguish one man from another. “

-Ernest Hemingway (1899-1961), American writer and journalist



NEWS FROM THE HOME OFFICE

Energy Efficiency Today Ensures Prosperous Economic Future, Declares President Obama

ATLANTA—President Obama has declared October National Energy Awareness Month, claiming that “a more prosperous future for our Nation's economy means making investments in energy efficiency and clean energy today.”

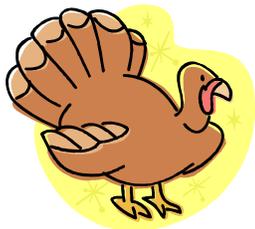
In his official proclamation, the President emphasized the importance of focusing on energy efficiency, promoting sustainable industries and setting effective and achievable standards for the generation and use of clean energy in order to advance energy and climate security. “The declaration as an opportunity for Americans to become more aware of how their everyday choices and actions impact energy use—particularly in their homes and the buildings where they work and play,” Gordon Holness, ASHRAE president, said. “Most Americans do not cite buildings as the sector responsible for the greatest energy use and greenhouse gas emissions. Hopefully by becoming more aware, Americans will demand greater efficiency.”

Obama has also issued an executive order focused on Federal leadership in environmental, energy and economic performance. “As the largest consumer of energy in the U.S. economy, the Federal Government can and should lead by example when it comes to creating innovative ways to reduce greenhouse gas emissions, increase energy efficiency, conserve water, reduce waste and use environmentally-responsible products and technologies,” the President said.

ASHRAE responded to the executive order by commending Obama's leadership to establish the Federal Government as a leader in increasing the energy efficiency of buildings, as well as to offer ASHRAE's standards and new labeling program as resources for achieving the President's goal of energy efficiency.

ASHRAE has long been doing its part to promote energy efficiency and sustainability through research, standards writing and education. For example, Standard 189.1P, Standard for the Design of High Performance, Green Buildings Except Low-Rise Residential Buildings—which is currently up for its fourth public review—addresses sustainable sites, water use efficiency, energy efficiency, a building's impact on the atmosphere, materials and resources and indoor environmental quality.

Additionally, ASHRAE's building energy labeling program, the Building Energy Quotient, provides building owners and the public with valuable information on the energy use of buildings by measuring both the energy the building is designed to use and the energy actually being consumed, thereby helping to close the gaps between intention and operation. The label is currently in its pilot stage and will be available in 2010.



ASHRAE Seeks Proposals on User's Manual for Green Buildings

ATLANTA—There are many ways to define a green building. Energy-saving measures, water efficiency, indoor environmental quality, materials and building orientations all play a role, but it is the way that all of these come together that makes a building truly high performing.

Requirements to achieve green buildings will soon be available from ASHRAE, the U.S. Green Building Council and the Illuminating Engineering Society of North America in the form of a standard. Standard 189.1P, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings, will define the minimum requirements for high-performance green buildings.

And to make following those requirements easier, a user's manual also is being developed. ASHRAE is currently accepting research proposals for development of a user's manual for Standard 189.1P. Proposals are due Nov. 9. For more information, visit www.ashrae.org/technology/page/548.

“The manual will provide users with a better understanding of how to apply the standard, as well as serve as a guide for self-education and training about the requirements and appropriate strategies to meet them,” Kent Peterson, chair of the Standard 189 committee, said. “It will include worksheets and examples that can be used to determine compliance.” As part of its energy efficiency efforts, ASHRAE also is accepting proposals for a User's Manual for Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings. The 2010 standard, which will be published next year, is being developed with the goal of achieving a 30 percent energy cost savings improvement compared to the 2004 standard.

More information on both projects can be found at www.ashrae.org/technology/page/548.

Winter Conference Technical Program to Focus on Humidity, Indoor Environments

ATLANTA— What better place to learn about the latest developments in humidity control than Florida? The 2010 ASHRAE Winter Conference, which takes place January 23-27, 2010 in Orlando, Fla. will focus on developments that contribute to making indoor environments sustainable in humid climates, while also addressing a myriad of other HVAC&R industry issues.

The technical program will be based on the theme Building Sustainability from the Inside Out. According to Dennis Wessel, the Orlando Conference chair, “the technical program presents state-of-the-art concepts and design techniques on a wide range of hot topics.”

“The technical program features a mix of presentations and papers concentrated in 11 tracks, including the impact of ASHRAE standards 90.1 and 62.1, sustainability, and a combined energy conservation and alternative energy solutions track, the largest track,” Wessel said.

NEWS FROM THE HOME OFFICE (CONTINUED)

The technical program focuses on humidity control and the industry's ability to improve comfort for occupants and save energy. Sessions address Operating Cost Implications in Humid Environments, Enhanced Dehumidification Strategies with Energy Recovery in Hot and Humid Climates, Humidity Control Issues and Solutions for High Performing Buildings, Ensuring the Performance of Your UFAD System and Solving Moisture Problems Created by Energy Retrofits.

Current interest programs include building information modeling, design of healthcare facilities, wireless sensing and control networks, commissioning, data centers, LEED and ground source heat pumps. In addition, the professional skills track includes business management sessions on billing and collection practices.

The technical plenary will discuss H1N1 and look at the importance of building ventilation as compared to vaccination and quarantine in infection control. The technical plenary will take place Sunday, Jan. 24, 9:45 – 10:45 am.

Additionally, two free contractor-related sessions will be presented in conjunction with the AHR Expo held at the Orange County Convention Center. Construction Management will be held Monday, Jan. 25, 2-3 pm and Cost/Benefit Analysis Methodology and Tools Needed by Owners will be held Tuesday, Jan. 26, 2-3 pm.

In all, the technical program features more than 90 programs and 300 speakers. The 2010 ASHRAE Winter Conference and will take place at the Rosen Shingle Creek hotel, Orlando, Fla. For complete conference information, including abstracts on all technical program sessions, or to register, visit www.ashrae.org/orlando.

Sessions to Boost Efficiency, Sustainability of Contractor Projects Featured at AHR Expo

ATLANTA – Two sessions to assist contractors in construction management and high-performance building are being offered by ASHRAE at the AHR Expo.

“The bottom line is that we're all striving to deliver excellent service for our clients and to do that more effectively,” Billy Austin, chair of ASHRAE's task group on contractors and design build firms that is sponsoring the sessions, said. “These ASHRAE sessions will bring together all members of the building team to learn new skills and to explore ways to work more closely together. With contractors representing 25 percent of Expo attendees, ASHRAE seeks to bring their knowledge and expertise into these sessions as well as to help shape the Society's future activities in contracting and design/build.”

The sessions, which require no conference badge or fee for AHR Expo attendees, are Construction Management, 2-3 p.m., Monday, Jan. 25, and Cost/Benefit Analysis Methodology and Tools Needed by Owners, 2-3 p.m., Tuesday, Jan. 26. Both take place at the Orange County Convention Center, site of the 2010 AHR Expo, Jan. 25-27, Orlando. The ASHRAE 2010

Winter Conference takes place Jan. 23-27, Rosen Shingle Creek hotel, Orlando. For more information, visit www.ashrae.org/orlando.

Construction Management addresses two key contractor-related topics to help improve the quality of their work: whether systems commissioning will improve the contractors' ability to perform well and preconstruction management basics for mechanical engineers and contractors on design-build/design-assist projects.

Cost/Benefit Analysis Methodology and Tools Needed by Owners provides an understanding of high-performance building cost-benefit analysis with a focus on the LEED rating system. Several topics are addressed, including cost/benefit project setup, fiscal metrics, constraints and length of analysis.

ASHRAE Handbook Becomes More Accessible in Online Format

ATLANTA—What was once the turn of a page will now be the click of a mouse. The ASHRAE Handbook is now available online to allow for quick and easy access to a vast amount of HVAC&R information. “The advantages of the ASHRAE Handbook Online are numerous,” Dennis O'Neal, 2009-10 chair of the ASHRAE Handbook Committee, said. “For one, the text is fully searchable and includes live links to figures, tables, footnotes, equations and other Web references. Going online also allows for fast navigation among all four current Handbook volumes, with live cross-reference links.”

Unlike the ASHRAE HandbookCD+ 2006-2009, an ASHRAE Handbook Online subscription provides immediate access to Handbook content, in contrast to the two weeks required for the shipping of the CD; requires no software installation; eliminates dependency on one computer by allowing for quick and easy access from any computer with an Internet connection; and costs considerably less than the price of purchasing each volume separately, offering a \$331 savings for non-members.

The benefits of the ASHRAE Handbook Online don't stop there. Taking the Handbook online will provide an opportunity for the Society to fulfill its mission of advancing the HVAC&R industry through publishing by making the Handbook more accessible. “This helps ASHRAE position its publishing program for customer expectations in the digital age,” O'Neal said. “Additionally, having the Handbook online opens it to members globally and makes ASHRAE information more readily available.”

The ASHRAE Handbook is the most widely cited reference source for HVAC&R technology in the world. The hardback version of the Handbook is published in a series of four volumes, one of which is revised each year, ensuring that no volume is older than four years. The ASHRAE Handbook Online, however, allows access to all of the four most recent volumes at once. To subscribe to the ASHRAE Handbook Online, visit <https://handbook.ashrae.org> for immediate access to vast and valuable HVAC&R technology and resources. Additional information may be found at www.ashrae.org/handbookonline.

