

# THE HOT AIR DIFFUSER IDAHO CHAPTER NEWSLETTER

OCTOBER 2009

VOLUME 16 ISSUE 2



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## PRESIDENT'S MESSAGE

Hello Idaho ASHRAE members,

As we welcome fall into the Treasure Valley exciting things are happening in our local ASHRAE chapter. Last month we had one of the best tours ever offered in our region. Touring the new FAA tower under construction at the airport was both interesting and inspiring with breathtaking views from the air traffic control level. The Idaho Chapter would like to thank Layton Construction and YMC Inc. for setting up the tour and allowing our members the opportunity to visit. In the next few days this tower will be turned over to the FAA which will highly limit any future tours.

Looking into our fall schedule, there are some new events that will be taking place. On Friday, November 6, 2009, our chapter will be hosting a social night at the offices of Innovative Air. This will be held in conjunction with the BSU game versus Louisiana Tech. A 55" big screen will be set up for viewing and complimentary food and beverages will be provided. This event will be a chance to meet and greet other ASHRAE members while enjoying some football. I encourage all members to mark this night down to attend and enjoy a night out with other ASHRAE members. Later into the fall season the board is examining the possibility of having an ASHRAE family night with some sort of activity involved. If anyone has any ideas, please feel free to send them to myself or any other board members.

In closing, I would like to thank everyone in our chapter for their support. It is needed now more than ever. Your attendance at the monthly meetings is a big step in helping our chapter move forward with continued success.

Spencer Shepard, PE  
President  
Idaho Chapter ASHRAE

## OCTOBER PROGRAM

**We will be having Wayne D. Meuleman (Attorney-at-Law) come and talk to our chapter regarding construction laws and understanding and interpreting the laws.**

**WHEN: FRIDAY, October 9, 2009  
11:45AM—1PM**

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

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## Sabot & Rice of Idaho

**MANUFACTURER'S REPRESENTATIVE**  
PHONE: (208) 362-7910 • FAX: (208) 362-7920  
11770 W. PRESIDENT DRIVE • SUITE A  
BOISE, IDAHO 83713

### 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, Penhouses  
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  
STERNVENT - 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

SPDNNAKER - 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  
SPDNNAKER - 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 October 8, 2004, at the Foothills Environmental Building. The program was a tour of the Foothills Environmental Building.

### Ten Years Ago

The chapter president was Ben Strawn. The meeting was held on October 8, 1999, at the Doubletree Riverside. Eric Shannon, Idaho Transportation Department, gave a presentation on the current progress of the Flying Y with computer drawings showing what the finished project will look like.

### Twenty Years Ago

The chapter president was David Musgrove. The meeting was held on October 9, 1989, at the Kings Table Restaurant. Shirl Boyce, Chamber of Commerce, gave a presentation on "The State of the Economy of Idaho".



## IMPORTANT DATES

OCTOBER 9, 2009—ASHRAE Chapter Meeting

OCTOBER 31, 2009—HALLOWEEN

NOVEMBER 6, 2009—Social Night @ Innovative Air & BSU Game (vs. LATECH) on the big screen

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

“Flying might not be all plain sailing, but the fun of it is worth the price.”

-Amelia Earhart (1897-1937), American aviation pioneer and author

## NEWS FROM THE HOME OFFICE

### **Carbon Monoxide Alarms Proposed for ASHRAE Residential Ventilation Standard**

ATLANTA – In a change that would bring its residential ventilation and indoor air quality standard closer in line with that of the 2009 International Residential Code, ASHRAE is proposing that carbon monoxide alarms be required in homes.

Under proposed addendum 1 to ANSI/ASHRAE Standard 62.2-2007, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings, carbon monoxide alarms would be required to be installed outside of each sleeping area. The proposed addendum is open for public comment until Oct. 26, 2009. Nine other addenda, unrelated to CO, also are open for review. Steve Emmerich, chair of the Standard 62.2 Committee, said that as the standard becomes more widely used as a result of its adoption into building codes and green building programs, several clarifications are being addressed through proposed changes.

Carbon monoxide (CO) poisoning leads to hundreds of deaths and thousands of injuries each year in homes. Such poisoning results primarily from automobiles left running in attached garages but also from portable generators, power tools and heaters, according to Emmerich. A small fraction of poisonings also result from failed central heating combustion appliances. “Residents have very little ability to sense the presence of CO without detectors, unlike many other indoor polluting events,” he said.

Whether to include CO alarms as a requirement in the standard has been discussed since the standard was first proposed. Debate has focused on the unreliability and cost of alarms. But Emmerich said the committee believes the time has come to make this change, noting that it will bring the standard into closer alignment with the 2009 International Residential Code, which requires alarms if the house has combustion appliances or attached garages, and with many states that have passed laws requiring CO alarms. “This proposed requirement goes a step further, expanding the protection to all homes, regardless of fuel type or garage configuration, reflecting the fact that many CO exposures occur due to causes completely independent of these factors,” he said. “It also requires that alarms be hard-wired with battery backup to address an increased likelihood of high CO exposure events during power outages.”

Also open for public comment is proposed addendum s, which would give credits for different types of residential ventilation systems. The proposed change increases mechanical ventilation system flow rates for systems that are unbalanced or not fully ducted, unless they have a provision for mixing. Emmerich said this is a fairly significant change that has been under extensive study by the committee.

Standard 62.2 addenda open for public comment until Oct. 11 are addenda m, n, s and t, while those open until Oct. 26 are j, l, o, p, q and r.

To view a copy of the addenda open for public review, go to [www.ashrae.org/publicreviews](http://www.ashrae.org/publicreviews). Copies of public review drafts are only available during public review periods.

## NEWS FROM THE HOME OFFICE (CONTINUED)

### **Proposed High-Performance Building Standard 189.1 Draws Nearer to Publication Date**

ATLANTA – The total building sustainability package, addressing everything from design and commissioning to plans for high-performance operation, is covered in a proposed green building standard currently open for public review.

Proposed Standard 189.1, Standard for the Design of High Performance, Green Buildings Except Low-Rise Residential Buildings, is being developed by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) in conjunction with the Illuminating Engineering Society (IES) and the U.S. Green Building Council (USGBC). The standard is slated to be the first code-intended commercial green building standard in the United States. It is expected to be published in early 2010. “This is one of the most highly-anticipated building standards ever released,” ASHRAE President Gordon Holness, said. “ASHRAE’s commitment to excellence and transparency in true consensus standards development is reflected in the quality of and interest in Standard 189.1.”

The proposed standard is currently open for a fourth public review. It is an “independent substantive change” review so only changes from the third public review, which ended in June 2009, are open for comment. The public comment period started Sept. 18 and remains open until Nov. 2, 2009.

“IES is pleased to co-sponsor this standard for high-performance green buildings and supports the goal shared with ASHRAE and USGBC of environmental responsibility toward current needs as well as those of future generations,” Rita M. Harrold, IES director of technology, said.

“The key to a prosperous future is cost-efficient and energy-saving green buildings and is imperative as we move forward,” Scot Horst, senior vice president of LEED, USGBC, said. “Standard 189.1 will help increase adoption of green building practices, leading to a prosperous and sustainable future for our nation.”

“The standard, once published, provides a ‘total building sustainability package’ for those who strive to design, build and operate green buildings,” Kent Peterson, chair of the committee writing the standard, said. “From site location to energy use to recycling, this standard will set the foundation for green buildings through its adoption into local codes. The dedication of those tasked with writing the standard has been unwavering. There are no short cuts to creating a quality, comprehensive green building standard that reflects input from all corners of the building community.”

Among the biggest proposed changes is in the exterior light pollution section, including elimination of the Total Site Lumen approach. The draft of the standard that went out for a third public review earlier this year required users to limit exterior lighting according to one of three methods for determining total initial lamp lumens, or light output, for all outdoor lighting.

