

THE HOT AIR DIFFUSER

IDAHO CHAPTER NEWSLETTER

SEPTEMBER 2009

VOLUME 16 ISSUE 1



SEPTEMBER PROGRAM

1ST ASHRAE TOUR OF THE YEAR!
(SEE ATTACHEMENT)

WHEN: FRIDAY, September 11, 2009
11AM-NOON, NOON-1PM

**WHERE: New FAA Tower at the Boise
Airport**

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PRESIDENT'S MESSAGE

Hello Idaho ASHRAE members,

As we enter a new ASHRAE year, there are many things that should provide our members with excitement. Along with an excellent tour to kickoff our monthly chapter meetings, the board is planning several fun activities and an assortment of exceptional speakers and programs. Over the past several years we have had a decrease in attendance. The board has recognized this and will take action to persuade more attendance at all local meetings. To do so, the Idaho chapter will continue to host an annual golf tournament and technical session which have been popular events in the past, but will also add a "social" night to allow more interaction between members and upcoming professionals. Our hope is to bring in young professionals, students, and seasoned members together to share thoughts and ideas about the future of our industry.

I want to personally encourage every member to become more involved and provide suggestions or critiques to myself or anyone else on the BOG. The chapter can get better and improve with this type of communication. Getting involved in the Idaho chapter or at the society level of ASHRAE can be very beneficial. Volunteering allows people to network, learn about established and emerging industry standards, and provide input on how the HVAC industry is shaped for future generations.

In conclusion, I want to welcome everyone back for another great year and thank all Idaho ASHRAE members for supporting your local chapter and everyone on the board of governors for the help with planning and setting up all of our upcoming events.

Spencer Shepard, PE
President
Idaho Chapter ASHRAE

IDAHO ASHRAE CHAPTER BOARD

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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, Perforates
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 Furnaces, Make-up Air
RAPID - Gas-Fired Make-up Air and Evap. Cooling
SEASONS 4 - Custom-built HVAC specialty equipments 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 - 1-600 HP Rotary Screw

CRITICAL AIRFLOW CONTROLS

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

ENCLOSURES

SPINNAKER - 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
SPINNAKER - 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)

RESEARCH PROMOTION

I wanted to send a hearty "THANK YOU!" to everyone who contributed to ASHRAE Research last year! Our goal was \$8996, and we ended up with \$10,844 in donations. Thanks to your support, we attained a new high mark and met our challenge goal. Let's give the kudos to all those companies and individuals who donated to ASHRAE Research and will make my job even harder this year – Technical Air Products, Clima-Tech, Engineering Inc., Innovative Air, Robertson's LLC, Norbryhn Equipment Co., Musgrove Engineering, Tikker Engineering, Columbia Hydronics, Intermountain Gas Company, Felts House Engineering, Inc., YMC, Inc., RoBar Technical Services, Midgley Huber Inc., Sabol & Rice, Inc., Northwest Energy Efficiency Alliance, FM Sheet Metal, Inc., Hobson Fabricating Corp., McClure Engineering, ATS Inland NW, and DeBest Plumbing & Mechanical, Inc. Individual donors were: Jeff Fulcher, Spencer Shepard, Cameron Sprinkel, Pam Hayes, Scott Mackay, Andrew Beall, George Masing, Bart Petterson, Arden Davis, Bruce Cleveland, Xenon Long, and Sam Park-ins. Thanks once again to each and every one of you for your generous support!

Since I am staying on as RP chair this year, I will be the one calling for support for this year's campaign. Last year's performance will be difficult to duplicate, but I am confident you all will come through once again. Just a reminder that you can make a contribution 24 hours a day at www.ashrae.org/contribute with your debit or credit card. Please call on me if I can be of any assistance to you with respect to your donation.

Scott Mackay
RP Chair

IMPORTANT DATES

SEPTEMBER 11, 2009—ASHRAE Chapter Meeting
OCTOBER 9, 2009—ASHRAE Chapter Meeting
OCTOBER 31, 2009—HALLOWEEN
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

"And in the end, it's not the years in your life that count. It's the life in your years."

-Abraham Lincoln (1809-1865), 16th President of the United States

NEWS FROM THE HOME OFFICE

ASHRAE Announces Newest Distinguished Lecturers for 2009

ATLANTA – ASHRAE has named 13 new Distinguished Lecturers who provide Society chapters with noted authorities who speak on relevant topics that impact the HVAC&R industry. This marks the 13th year of the Distinguished Lecturer Program. The new lecturers and their areas of expertise are:

- David Arnold, Ph.D., Troup Bywaters and Anders, Reading, England – Chilled Beams for Low Energy Cooling in Sustainable Buildings, Estimating the Future Reliable Service Life of Existing Plant, The Evolution of Modern Office Buildings and Air Conditioning and Air Conditioning and the Impact on the Growth and Development of the USA in the 20th Century.

- William P. Bahnfleth, Ph.D., P.E., Pennsylvania State University, University Park, Pennsylvania – Fundamentals of Ultraviolet Germicidal Irradiation for Air and Surface Disinfection, Variable Primary Flow Chilled Water Systems and Cool Thermal Energy Storage in the Era of Sustainability.

- Hoy Bohanon, P.E., WorkingBuildings, LLC., Winston-Salem, North Carolina – Update on ASHRAE Standard 62.1, How to Apply the ASHRAE Standard 62.1 Multiple Spaces Equation, How to Implement Demand Control Ventilation and Comply with ASHRAE Standards and Using the Retro-commissioning Process for Energy Savings and Recovery Equipment.

- William A. Harrison, Trane Arkansas, Little Rock, Arkansas – Maintain to Sustain-Delivering ASHRAE's Sustainability Promise.

- Sam C. H. Hui, Ph.D., The University of Hong Kong, Hong Kong – Building Energy Codes and Building Energy Performance Evaluation, Building Energy Labels and Energy Benchmarking, Green Building Design and Assessment and Green Roof Systems and Technology

- Sanjeev Jain, Ph.D., Indian Institute of Technology Delhi, New Delhi, India – Renewable and Low Energy Driven Cooling Technologies for a Greener Tomorrow, Desiccant Technologies for Dehumidification and Cooling, Natural Refrigerants: Meeting the Challenges to Sustainability and Advanced Evaporative Cooling Systems for Sustainable Development

- Ronald E. Jarnagin, Pacific Northwest National Lab, Richland, Washington – Standard 90.1-Past, Present and Future, Advanced Energy Design Guides-Going Beyond Minimum Standards, Moving from Blue to Green-ASHRAE's Path to Sustainability, Today's ASHRAE-It's Not What You Think Anymore, ASHRAE's Headquarters Renovation-What Happens When Leaders Try to Do It Right, ASHRAE's Living Laboratory-Learning and Involvement by All Members and ASHRAE's Building Energy Labeling Program-A First Look

- M. Dennis Knight, P.E., DHIMEX, Mexico City, Mexico – Developing and Integrated Personal Management System to Help Get Things Done, Integrated Building Design, Building Performance Analysis for Building Performance Rating Systems and Building Information Modeling for the Mechanical Disciples.

- R. Christopher Mathis, MC2 Mathis Consulting Company, Asheville, North Carolina – Energy Efficiency in Residential Buildings, Energy Efficient Window and Fenestration Technologies, Energy Efficiency in Commercial Buildings, Compliance with ASHRAE 90.1 and Building Science Lessons from the Honey Bees

- Jianlei Nui, Ph.D., The Hong Kong Polytechnic University, Hong Kong – Room Air Distribution: Stratified Air Distribution Systems and Reduced Cooling Load Calculation Methods, Personalized Ventilation: Energy Saving Potential and Application Modes, High-Rise Residential Building Ventilation Design: Public Health and Local Community Air Quality and Low-Energy Building Cooling and Heating Technologies: From Sky to Underground to Address Sustainability.

- Todd L. Rindlisbaker, P.E., QCxP, HBDP, LEED® AP, CDP, Total Building Commissioning, Inc., Salt Lake City, Utah – Design Engineers Working with a Commissioning Agent, Who Sabotaged My High-Performance Building, The LEED and ASHRAE Affair and The Integrated Project Delivery Process.

- Wei Sun, P.E., Engsysco, Inc., Ann Arbor, Michigan, Cleanrooms and HVAC Systems Design Fundamentals, Laboratories and HVAC Systems Design Fundamentals, HVAC Systems Design for Airborne Infection Control Spaces in Healthcare Facilities, Design Practices for Pressurization Systems-Technologies in Suite Pressure Control and Performance Modeling, Fan Energy Conservation in Cleanrooms-Airflow Modeling and Demand Flow Control and Primary, Secondary and Tertiary Air Handling Systems Design Strategies for Controlled Environments

- Dennis A. Stanke, Trane Commercial Systems, Ingersoll-Rand, La Crosse, Wisconsin – Standard 62.1 Update, Standard 62.1: The Ventilation Rate Procedure, Standard 62.1: Dynamite Reset and LEED Indoor Environmental Quality (EQ) Credits.

The new lecturers will serve a two-year term. There are 72 Distinguished Lecturers representing 20 countries for 2009-2010. These lecturers are available to present on 319 topics. For a complete listing of Distinguished Lecturers and detailed procedures on how to arrange a lecturer presentation, visit <http://www.ashrae.org/distinguishedlecturers>.

For additional information, contact Rosy Douglas, manager of chapter programs, at rdouglas@ashrae.org or 678-539-1128.

NEWS FROM THE HOME OFFICE (CONT'D)

ASHRAE Provides Opportunity for Continuing Education

ATLANTA—In keeping with ASHRAE's goal of continuing education, the Society will once again offer fall online seminars. These online, instructor-led seminars will run from late September through early November and are available to those interested in expanding their knowledge of the HVAC industry and keeping up to date with the latest technology and their applications. Many popular courses will be offered, several of which will include updated material. The courses will cover a broad range of topics, including:

- Understanding & Designing Dedicated Outdoor Air Systems (DOAS)
- The Commissioning Process & Guideline 0
- Complying with Standard 90.1-2007 HVAC/Mechanical
- Introduction to Green Buildings and Sustainable Construction
- Complying with Standard 90.1-2007 Envelope/Lighting
- The Basics of Radiant Panel Heating & Cooling*
- Using Standard 90.1-2007 to Meet LEED Requirements
- Chilled Beam Technology for Excellent Indoor Climate in an Energy Efficient Manner
- Complying with Requirements of ASHRAE Standard 62.1-2007
- Energy Management in Existing Buildings*
- Humidity Controls: Basic Principles Loads & Equipment
- Humidity Controls: Application, Control Levels & Mold Avoidance
- The Basics of a Proposed Standard on High Performance Green Buildings (Standard 189.1)

*Indicates updated course material.

The three-hour-long courses are taught in real-time, from 1 p.m. to 4 p.m. EDT, and feature interactive audio. Either three professional development hours or American Institute of Architects learning units or 0.3 continuing education units are available for each course.

Those who sign up for courses before Sept. 11 will receive a reduced registration fee. A 20 percent discount is also available to participants who register for courses with related topics.

A full list of courses and registration information can be found at www.ashrae.org/onlinecourses.

JOKE OF THE MONTH

An engineer dies and reports to the pearly gates. St. Peter checks his dossier and says, "Ah, you're an engineer — you're in the wrong place." So the engineer reports to the gates of hell and is let in.

Pretty soon, the engineer gets dissatisfied with the level of comfort in hell, and she starts designing and building improvements. After a while, they've got air conditioning, flush toilets and escalators, and the engineer is becoming a pretty popular gal. One day God calls Satan up on the telephone and asks with a sneer, "So, how's it going down there in hell?"

Satan replies, "Hey, things are going great. We've got air conditioning, flush toilets and escalators, and there's no telling what this engineer is going to come up with next."

God replies, "What??? You've got an engineer? That's a mistake — she should never have gotten down there; send her up here."

Satan says, "No way! I like having an engineer on the staff, and I'm keeping her."

God says, "Send her back up here or I'll sue."

Satan laughs uproariously and answers, "Yeah right. And just where are YOU going to get a lawyer?"

ATTENTION: ASHRAE MEMBERS

**The Chapter is now accepting
advertisements in the monthly newsletter.**

Sponsorship Rates are as follows:

	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