

THE HOT AIR DIFFUSER IDAHO CHAPTER NEWSLETTER

APRIL 2009

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PRESIDENT'S MESSAGE

Greetings Idaho ASHRAE members,

This month our ASHRAE program will be replaced by our annual technical conference on April 10, 2009 starting at 8:00 at the Oxford Suites in Boise. Along with nine different topics, this year we are offering a full breakfast and lunch, included with your registration. If you have not registered yet, please do so as soon as possible to reserve your seat. Seating is limited, and we are already at 2/3 capacity, so go to www.idahoashrae.com as soon as possible, or contact Kenny Calkins to register by mail. We would like to get everyone registered no later than Monday 4-6-09.

We also have several sponsorship and exhibitor slots still available. This year, we have included over two hours of exhibitor time, so if you are interested, please see the available options for sponsorship and exhibition at idahoashrae.com.

I look forward to seeing everyone at the technical conference, and if there is someone outside of ASHRAE you think may be interested, please let them know of this great learning and networking opportunity.

Jeff Fulcher, PE
President
Idaho Chapter ASHRAE

APRIL PROGRAM

ASHRAE TECHNICAL CONFERENCE
(See attached for detailed schedule)

WHEN: FRIDAY, April 10, 2009
8AM—5PM

WHERE: Oxford Suites, Boise

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Sabol & Rice of Idaho

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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, 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 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
ICI - 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 Matthew May. The meeting was held on April 9, 2004, at the Red Lion Riverside. Boise State University senior engineering students Jennifer Cole and Kate Roeske gave a presentation titled "Biological Applications of Atomic Force Microscopy". The presentation included a history of AFM, the theory behind AFM, and advantages of using AFM for biological research.

Ten years ago

The chapter president was Brent Robertson. The meeting was held on April 9, 1999, at the Double Tree Riverside. A 1 hour tech session was given by Gil Avery, a mechanical engineering consultant from Memphis, TN, on selecting control valves and control piping for heating and cooling coils. The lunch presentation was also by Mr. Avery on control considerations for the 21st century.

Fifteen years ago

The chapter president was Roger Albers. The meeting was held on April 8, 1994, at Edwards Restaurant. Joseph Prin, Beacon Light Industries, allegedly sang, tap danced, and told dirty jokes in conjunction with a discussion of the "Bulb Boss", an energy saving lighting control.

Twenty years ago

The chapter president was Pat House. The meeting was held on April 14, 1989, at the Kings Table Restaurant. Greg Miner, Residuals Management, Inc., gave a presentation on hazardous materials including asbestos.

Steve Hardy
Historian

IMPORTANT DATES

APRIL 10, 2009—ASHRAE Technical Conference

APRIL 12, 2009—Easter Sunday

MAY 8, 2009—ASHRAE Chapter Meeting

MAY 25, 2009—Memorial Day

JUNE 12, 2009—ASHRAE Golf Tournament

QUOTE OF THE MONTH

"A lie can travel halfway around the world while the truth is putting on its shoes."

-Mark Twain (1835-1910), American author and humorist

NEWS FROM THE HOME OFFICE

Stimulus Funding for Schools Provides Energy Efficiency Opportunities

ASHRAE Advanced Energy Design Guide Provides Simple Tool

ATLANTA – As school boards and superintendents develop programs to utilize recent U.S. economic recovery stimulus funds, projects focused on improving energy efficiency can result in long-term savings for school districts.

Guidance from The American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) can help schools earn an A+ in achieving that efficiency.

The American Recovery and Reinvestment Act (ARRA) signed by President Obama on February 17, 2009, provides significant funding and financing opportunities to modernize, renovate and repair public schools. Under the “State Fiscal Stabilization Fund” up to \$48.3 billion can be allocated to schools. An additional \$25 billion in eligible bonds also have been authorized.

ASHRAE and other leading building industry organizations have developed the *Advanced Energy Design Guide for K-12 School Buildings*. The guide provides recommendations for achieving 30 percent energy savings over the minimum code requirements of ANSI/ASHRAE/IESNA Standard 90.1-1999. Estimates show that a full 16 percent of schools districts’ controllable costs is spent on energy.

“Beyond energy savings, by implementing the recommendations, schools may benefit from an improved learning environment, reduced operating costs, reduced environmental and climate impacts, and enhanced teaching opportunities on the environment,” ASHRAE President Bill Harrison said.

The recommendations in the guide allow those involved in designing or constructing school buildings to easily achieve advanced levels of energy savings without having to resort to detailed calculations or analysis. All of the energy-saving recommendations for each of the eight U.S. climate zones are summarized in a single table. Additional recommendations point to other opportunities to incorporate greater savings into the design of the building.

More than 14,000 free copies of the *Advanced Energy Design Guide for K-12 School Buildings* were sent to school systems in the United States last spring.

Details on the stimulus funding for educational facilities can be found on the Department of Education’s Recovery page (<http://www.ed.gov/policy/gen/leg/recovery>). Copies of the *Advanced Energy Design Guide for K-12 School Buildings* are available for free download at www.ashrae.org/freeaedg or print copies may be ordered from the ASHRAE Bookstore at www.ashrae.org.

ASHRAE Rolls into Louisville for 2009 Annual Conference

ATLANTA – The pounding hoof beats into the final turn. Ice tinkles in the glass of a frosted mint julep. The plaintive echoes of rivercraft are heard as they signal the drawbridge. These are the sights and sounds of Louisville....the home of ASHRAE’s 2009 Annual Conference. “*Rolling on the River* serves as the conference theme and echoes ASHRAE’s mission,” Bill Harrison, ASHRAE president, said. “A steady flow of rapidly advancing standards and research, both complimented by our technical and educational program, will enhance ASHRAE’s ability to drive the ongoing transformation to a more sustainable built environment.”

The ASHRAE Annual Conference takes place June 20-24. To register or for more information, visit www.ashrae.org/louisville. Most events take place at the waterfront Galt House Hotel.

The ASHRAE technical program, with nearly 100 sessions, focuses on optimal indoor air quality. It begins Sunday, June 21, and ends Wednesday, June 24, with all sessions at the Galt House. Complete program details will soon be available at www.ashrae.org/louisville. The technical program features a large building systems track that begins with an introduction to large buildings and addresses sustainable large building design, energy modeling, smoke control and specifically indoor sports facilities, entertainment venues, and museums and libraries. Other tracks with multiple programs include systems and equipment, indoor air quality, energy and sustainability.

The conference keynote speaker is Susan Roaf, professor of architectural engineering at Heriot Watt University, Edinburgh. Roaf’s thought-provoking comments include a range of building- and climate-related risks that individuals will face in the future along with a range of actions that homeowners and legislators can take to future-proof lifestyles against the growing challenges of the 21st century. She speaks at the Plenary Session on Saturday and the technical plenary on Sunday.

The ASHRAE Learning Institute offers two full-day professional development seminars and four half-day short courses, focusing on a range of HVAC&R related topics. New sessions include *Data Center Energy Efficiency* and *Air-to-Air Energy Recovery Systems*. ASHRAE’s Standard 90.1 course has been revamped to focus on using the standard to meet LEED and federal tax credit requirements.

ASHRAE also launches its newest certification program – Commissioning Process Management Professional. The certification recognizes that those who manage the commissioning process need to have people- and project-management skills in addition to knowledge of building design, construction, operations and maintenance. For more information, visit www.ashrae.org/cpmp. ASHRAE technical tours offer an inside view of how technology developed by members is practically applied in building environments. Tours include the central steam and chilled water plant at Louisville Medical Center, an HVAC system for a Class 100/1000 cleanroom at the University of Louisville, the CMTA Corporate Headquarters Building, and the Scribner Place YMCA and Aquatic Center. In addition, ASHRAE President-Elect Gordon Holness, P.E., Fellow ASHRAE, Life Member, a consulting engineer and chairman emeritus, Albert Kahn Associates Inc., Detroit, Mich., takes office as 2008-09 president. Holness presents his inaugural address at the president’s luncheon on Monday, June 22, focused on energy efficiency in existing buildings.

