



The Latent News

Ozark's ASHRAE Newsletter

(Better Latent than Never)

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www.ozarksashrae.org

Ozarks ASHRAE

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**The Latent News is a
monthly newsletter
produced by the
Ozarks' chapter of
ASHRAE
Chapter may not speak
for society.**

If you have information
you would like to include
in the next ASHRAE
Latent News, please
have it to the editor no
later than the first
Tuesday of the month.

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About our Speaker

"Filtration and Airborne Contaminant Control"

Our January ASHRAE general meeting will take the form of a half-day seminar held Tuesday, January 20, 2009 from 8:00am-12:30pm at the "Colorado B" room in the University Plaza Convention Center, 333 John Q Hammons Parkway. Seminar cost is \$50, and includes breakfast. Advance registration is encouraged as seating is limited, please contact Mark Schober at mark@larose-schober.com for a registration form. Four professional development hours will be available to attendees.

The seminar presenter is Brian Monk, PE, an ASHRAE distinguished lecturer. Mr. Monk will cover filtration and airborne contaminant control for health care facilities and elimination of corrosive, odorous and toxic gases.

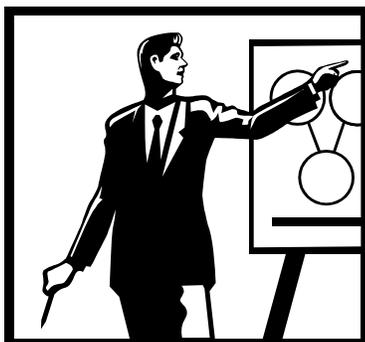
Mr. Monk is Director of Sales and Marketing for Carrier Corporation in Montreal, Canada for RACAN Custom Air Handling Division. From 1998 to 2006, Mr. Monk served as the Vice-President of Sales / Marketing for Dectron International, specializing in the application of dehumidification / filtration systems for commercial and industrial environments.



Brian Monk, Carrier Corporation

Mr. Monk has been a member of ASHRAE since 1988, and as Director of Engineering for Circul-Aire, had spent 10 years in the application and design of air filtration and energy recovery systems, in the industrial and commercial HVAC market.

His academic background is comprised of a college degree in Applied Science (Building Systems Engineering Technology) from Vanier College of Montreal and a Bachelor of Building Engineering from Concordia University of Montreal. Mr. Monk is a Registered Professional Engineer with the Province of Quebec, Canada, and the Association of Professional Engineers and Geoscientists of British Columbia, Canada.





A Bright Idea in Compact Fluorescents

For those who want to go green but can't quite get used to swirl shaped CFLs, the Energy Smart CFL bulb by GE, which features its Spiral CFL inside the glass bulb will soon be available. The bulb's profile is virtually identical to a standard incandescent light bulb.

The bulb debuted nationwide at Target on Dec.28, at selected Ace Hardware stores in January, and more broadly around Earth Day (April 22, 2009) at retailers such as Sam's Club and Walmart. The equivalent of a 60W incandescent bulb, the new 8,000-hour rated life CFL is guaranteed for five years based on four hours of daily use.

Between April and June 2009, GE plans to introduce 9W and 20W incandescent-shaped covered Energy Smart CFLs, 40W and 75W equivalents, respectively. The 20W CFL will have a slightly taller profile that mirrors a standard incandescent three-way bulb. A 100W equivalent, incandescent-shaped covered Energy Smart CFL and other inventive products for household applications could be introduced as early as 2010.

Engineers Week Activities in Springfield

Engineers Week 2009 is coming up February 15-21 and the Ozarks ASHRAE chapter will be working with the local chapter of Missouri Society of Professional Engineers to host an event to help get children excited about engineering.

The Ozarks' Engineer Week celebration provides interactive displays for children and their parents to see, touch and experience to help them see what engineers do in their daily jobs and how what they do impacts the lives of people around them. Past activities have included a bridge-design program that allows students to build and test a bridge design on the computer, a display explaining liquefaction and making simple polymers. If you have an idea for an interactive demonstration related to ASHRAE, we'd love to include it in the event.

The event will take place Saturday, February 14 at the Library Center on south Campbell and volunteers to help with the event are needed. If you would be interested in helping with some part of the planning or manning displays at



ENGINEERS WEEK® 2009

FEBRUARY 15-21

the event, please let Earl Burk know or e-mail Drew Sparks with MSPE at ozarkeweek@gmail.com.

ASHRAE hosts conference on Net-Zero building design

ATLANTA – To help drive the building industry toward market-viable net-zero-energy buildings, ASHRAE is hosting a specialty conference on the topic in March in San Francisco.

"We have reached a time when the building industry is being called to shift to a new level of performance that will reduce our energy and carbon footprint," Bill Harrison, ASHRAE president, said. "It is time to advance net-zero-energy building knowledge."

ASHRAE's *Countdown to a Sustainable Energy Future...Net-Zero and Beyond* conference takes place March 29-31 at Hyatt at Fisherman's Wharf in San Francisco. The conference will provide a forum to discuss the role of policy and regulatory involvement in addition to

providing application knowledge for the various aspects of net-zero-energy buildings for both residential and non-residential buildings. It will include building science, energy efficiency in HVAC, lighting and appliances, and renewable energy sources applied to buildings.

To register or for more information, visit www.ashrae.org/netzeroconference.

ASHRAE defines net-zero-energy buildings as those which, on an annual basis, use no more energy from the utility grid than is provided by on-site renewable energy sources. These buildings use 50-70% less energy than comparable traditional buildings, and the remaining energy use comes from renewable sources, like solar panels or wind turbines incorporated into the facility itself.



Upcoming Events

Programs being lined up for this year include:

- ❑ February – Tour of St. Johns Patient Tower and Energy Plant
- ❑ March – Global Warming.....or Not??
- ❑ March – Tour of construction at the new Springfield Airport Terminal with MSPE
- ❑ Visit from Bill Harrison, ASHRAE National President
- ❑ Spring golf tournament at Hidden Valley – Mark your calendars for May 29th!
- ❑ More.....



Watch upcoming newsletters for time and location information.

Standard 90.1-2004 Established as National Reference Standard by DOE

ATLANTA – States must now certify that their building codes meet the requirements in ASHRAE/IESNA’s 2004 energy efficiency standard, under a ruling issued by the United States Department of Energy (DOE) that finds the standard saves more energy than an earlier version.

ANSI/ASHRAE/IESNA Standard 90.1-2004, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, has been established by the DOE as the commercial building reference standard for state building energy codes under the federal Energy Policy Act.

The Act requires all states to certify that they have state energy codes in place that are at least as stringent as 90.1-2004, or justify why they cannot comply.

The DOE determined that Standard 90.1-2004 saves more energy than Standard 90.1- 1999, which was the previously referenced standard in the Act.

“The quantitative analysis of the energy consumption of buildings built to Standard 90.1-2004, as compared with buildings built to Standard 90.1-1999, indicates national source energy savings of approximately 13.9 percent of commercial building

energy consumption. Site energy savings are estimated to be approximately 11.9 percent,” according to the ruling published in *The Federal Register* on Dec. 30, 2008.

In addition, ASHRAE is working on providing more stringent energy guidance in a proposed standard for high-performance buildings. Being developed in partnership with IESNA and the U.S. Green Building Council, Standard 189.1, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, will provide minimum requirements for the design of high-performance new commercial buildings and major renovation projects, addressing energy efficiency, a building’s impact on the atmosphere, sustainable sites, water use efficiency, materials and resources, and indoor environmental quality.

Since being developed in response to the energy crisis in the 1970s, Standard 90.1 now influences building designs worldwide. It has become the basis for building codes, and the standard for building design and construction throughout the United States. ASHRAE publishes a revised version of the standard every three years. The 2007 version of Standard 90.1 was released last year.

ASHRAE Vision

ASHRAE will be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating.

ASHRAE Core Values

Advancement

We are committed to the advancement of the arts and sciences or HVAC & R for the benefit of society through research, technology development and transfer, and education and training.

Leadership

We are committed to providing leadership within our industry and developing leadership qualities in our members.