

The Latent News Ozark's ASHRAE Newsletter

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(BETTER LATENT THAN NEVER)

www.ozarksashrae.com

December 8, 2009 Volume 12, Issue 4



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**The Latent News is a
monthly newsletter
produced by the
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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

"Engineering Ethics"

The December ASHRAE general meeting will be held Tuesday, December 15th at 11:30pm at the Springfield Brewing Company, 301 S Market Ave. Meal cost is \$12, payable at the door and first-time attendees are free.

Our speaker for the meeting will be Roddy Rogers, manager of water distribution and supply for City Utilities of Springfield, Missouri. Mr. Rogers will be speaking on engineering ethics. His discussion will include information on engineering licensure, the engineering code of ethics, value systems and the application of these to engineering practice.

Roddy Rogers is a graduate of the University of Missouri – Rolla. He holds a bachelors degree in civil engineering, a



Roddy Rogers, City Utilities

master's degree in geotechnical engineering and a second master's degree in engineering management. Mr. Rogers is a registered professional engineer and has been design engineer and/or project manager for several water supply projects.

ASHRAE Conference goes Virtual

ATLANTA—ASHRAE's Winter Conferences provide members and professionals in the HVAC&R industry with technical guidance, networking opportunities and access to the latest technology. For 2010, the Society will continue in this tradition with an additional new twist: The Conference is going virtual.

The Virtual Conference extends access to advances in the HVAC&R industry to professionals across the country and around the world. Participants in the Virtual Conference will be able to interact with speakers and attendees by posting questions and comments, viewing other comments and viewing the presenters' responses through an online discussion board, in addition to ASHRAE's traditional recordings (synced audio and PowerPoint presentations).

Benefits of the Virtual Conference:

Access to over 250 presentations.

Complete coverage of the technical program with access to seminar presentations, select Transactions sessions, posters and questions and answers from attendees and presenters.

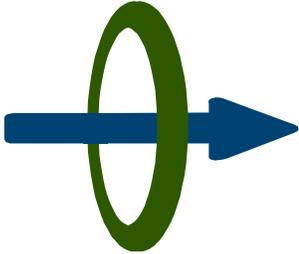
The ability to post and view comments on presentations.

Send and receive questions and answers from presenters of selected sessions for a two-week period

Online access to the presentations for one year.

ASHRAE members may register for the Virtual Conference at www.ashrae.org/orlandovirtual for \$299. Non-members may register for \$464; registration includes one-year ASHRAE membership upon completion of membership application. Companies may also register three or more employees for the Virtual Conference.

Ozarks ASHRAE Reaches Full Circle



Congratulations to the Ozarks ASHRAE chapter on reaching the Full Circle level in the ASHRAE Research fund-raising campaign. Full Circle is a designation that indicates that all members of the Board of Governors have contributed to ASHRAE research. This is the second year in a row that the Ozarks chapter has reached the Full Circle level. Thanks to our Board of Governors for setting an example for all of the members!



Want to support ASHRAE research?

You can contribute towards ASHRAE research by contacting our Research Promotion chair, Earl Burk, or online by going to:

www.ashrae.com/contribute

Put the amount you wish to contribute in the ASHRAE Research cell.

High Performance Building Standard Provides the Foundation for Green Building Codes

ATLANTA – A proposed high-performance building standard and a stronger version of Standard 90.1, both being released next year, together will provide a total green resource for local and state governments looking to set building code requirements to reduce energy use.

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 when published early in 2010.

It covers key topic areas typically included in green building rating systems: site sustainability, water use efficiency, energy efficiency, indoor environmental quality, and the building's impact on the atmosphere, materials and resources.

ASHRAE and IES also are working to strengthen the requirements in ANSI/ASHRAE/IESNA Standard 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, which provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings. ASHRAE's goal for the 2010 standard is 30 percent energy savings over the 2004 version. The 2010 standard is expected to be released in mid-2010.



An update on the development of Standard 189.1P will be given this week at the USGBC GreenBuild Expo at a press conference on Thursday.

"Both standards are written in mandatory language to allow for adoption with building codes," Gordon Holness, ASHRAE president, said. "They are being developed using the widely respected American National Standards Institute consensus procedures. As such, their strength comes from the volunteer committee of experts from all facets of the building industry. In addition, the requirements in the draft standard were strengthened through the public review process with input from a variety of building industry professional."

Proposed Standard 189.1P has been written by experts representing all areas of the building industry, including engineers, lighting designers, sustainability experts, building owners, designers, architects, code and compliance officials, utilities, materials experts and equipment manufacturers. These volunteer experts have contributed tens of thousands of man hours valued at millions of dollars.

The technical requirements in the standard also are supported by input from the building industry during the public review process. The standard recently completed a fourth public review, in which 109 comments were received. The comments are being reviewed by working groups of the committee developing the standard. The full committee meets this week in conjunction with the GreenBuild Expo to act on the suggested comments.

The standard has undergone four public reviews, meaning anyone could comment on its proposed requirements. Some 2,500 comments were received during the review periods.



Upcoming Events

Mark your calendars for these dates:

- General meeting – December 15, 2009 “Engineering Ethics” presented by Roddy Rogers
- General Meeting – January 19, 2010 “Life Cycle Cost Analysis” by Mike Mahoney
- General Meeting – March 16, 2010 “The Ethics and Economics of Energy Conservation” by William Coad

Trivia Tidbit

Back by popular demand, here's a bit of trivia to keep your brain cells active:

100 years ago...

The average life expectancy in the United States was forty-seven.

The average wage in the U.S. was twenty-two cents an hour. The average U.S. worker made between \$200 and \$400 per year.

A competent accountant could expect to earn \$2000 per year, a dentist \$2500 per year, a veterinarian between \$1500 and \$4000 per year, and a mechanical engineer about \$5000 per year.

Pilot Building Energy Labeling Program Launched by ASHRAE with Leading Owners, Designers

ATLANTA – A new program to inform building owners and operators, tenants and prospective buyers on the energy use of buildings, similar to a nutrition label on food or miles per gallon ratings on cars, was launched today to encourage the building industry to find ways to cut energy use and costs.

The Building Energy Quotient program, which will be known as Building EQ, will include both *As Designed* (asset) and *In Operation* (as operated) ratings for all building types, except residential. It also will provide a detailed certificate with data on actual energy use, energy demand profiles, indoor air quality and other information that will enable building owners to evaluate and reduce their building's energy use. The program is administered by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

“Information on a building energy's use is the critical first step in making the necessary changes and choices to reduce energy use and costs,” Gordon Holness, ASHRAE president, said. “The Building EQ program provides an easily understood scale to convey a building's energy use in comparison to similar buildings, occupancy types and climate zone,

while also providing building owners with building-specific information that can be used to improve building energy performance.”

Holness noted that building energy use disclosure is already mandatory in California; Washington, D.C.; Austin, Texas; Washington State; the European Union; and Australia.

Through the pilot program, the Building EQ program will allow fine-tuning and final development of the program. In parallel with this effort, ASHRAE has developed a certification program for building energy modelers. Following completion of the pilot program in mid-June, the program is expected to be fully functional by the end of 2010.

Under the program, new buildings will be eligible to receive an *As Designed*, or asset, rating, which provides an assessment of the building based on the components specified in the design and is based on the results of building energy modeling and simulation. An *In Operation* rating will be available once the building has at least one year of data on the actual energy use and is based on a combination of the structure of the building and how it is operated. Existing buildings would be eligible to receive both an *As Designed* and *In Operation* rating.

For more information, visit www.buildingEQ.com.

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.