

# The Latent News Ozark's ASHRAE Newsletter

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**(BETTER LATENT THAN NEVER)**

[www.ozarksashrae.com](http://www.ozarksashrae.com)

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**Ozarks ASHRAE**  
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**The Latent News is a  
monthly newsletter  
produced by the  
Ozark 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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## November's Meeting

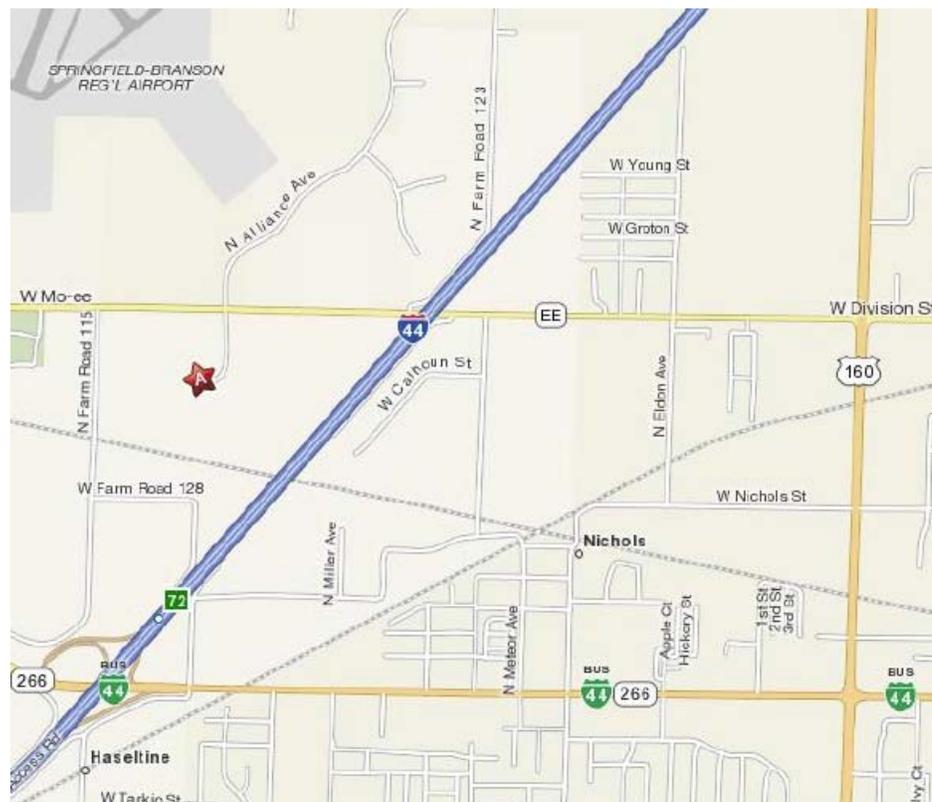
*"Northstar Battery Tour"*

The November ASHRAE general meeting will be a tour held Tuesday, November 17<sup>th</sup> at 3:00pm at the new Northstar Battery facility, 1320 North Alliance. To reach the building, take I-44 to the Division St exit. Turn west onto W Division St and follow that until reaching N Alliance Ave. Turn south (left) onto Alliance Ave. Turn south (left) onto Alliance Ave. Enter the plant through the front door and meet at the cafeteria to your left. Bring your safety glasses for this tour.

Dave Smith of Smith Goth Engineers will lead the tour, assisted by Garry Baldwin of Northstar. The plant is 317,000 square feet and contains

automatic and robotic production equipment that makes, assembles and fills lead-acid batteries for telecom applications. The formation (charging) department covers an area of 100,000 square feet and has an up-flow battery cooling system.

The building also contains a fan room for filtering and cooling 370,000 cfm with 1,000 tons of total capacity. Some other notable features you will see include an underfloor duct tunnel system, 3,000 ton chilled water plant, siphonic roof drain system and nine 3,000 amp 480 volt electrical services.



Northstar Battery Co, 1320 North Alliance, Springfield, MO

## Contribute to ASHRAE Research

One of the important functions ASHRAE provides for our industry is research to develop new technology and further our understanding of the systems we use today. As an ASHRAE member, you can support their efforts.

### 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](http://www.ashrae.com/contribute)

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



### Open Position

Now hiring mechanical, plumbing ,hvac, estimator, must have knowledge of local codes, computer skills in Microsoft Office,a working knowledge of mechanical systems. Experience necessary. Send resume or contact Connelly Plumbing Co. at 417 8662256 or [info@connellyplumbing.com](mailto:info@connellyplumbing.com)

## Fall Shooter Tournament Results

by Naomi Fisher

The ASHRAE Fall Shooting Tournament was held Friday, November 6, at Ozarks Shooters. Following lunch at the facility, nineteen shooters participated in the tournament, which included both wobble and sporting clays.

Taking top place was Aaron Fields, with a total of 69 out of a total possible 75 clays. Second place went to Travis Moats and third place was awarded to Ron Bogart.



## 2010 ASHRAE Winter Conference

The 2010 ASHRAE Winter Conference, which takes place January 23-27, 2010 in Orlando, Fla. will focus on developments that contribute to making indoor environments sustainable in humid climates, while also addressing a myriad of other HVAC&R industry issues.

The technical program will be based on the theme *Building Sustainability from the Inside Out*. According to Dennis Wessel, the Orlando Conference chair, "the technical program presents state-of-the-art concepts and design techniques on a wide range of hot topics."

"The technical program features a mix of presentations and papers concentrated in 11 tracks, including the impact of ASHRAE standards 90.1 and 62.1, sustainability, and a combined energy conservation and alternative energy solutions track, the largest track," Wessel said.

The technical program focuses on humidity control and the industry's ability to improve comfort for occupants and save energy. Sessions address *Operating Cost Implications in Humid Environments*, *Enhanced Dehumidification Strategies with Energy Recovery in Hot and Humid Climates*, *Humidity Control Issues and Solutions for High Performing Buildings*, *Ensuring the Performance of Your UFAD System* and *Solving Moisture Problems Created by Energy Retrofits*.

Current interest programs include building information modeling, design of healthcare facilities, wireless sensing and control networks, commissioning, data centers, LEED and ground source heat pumps. In addition, the professional skills track includes business management sessions on billing and collection practices.

The technical plenary will discuss H1N1 and look at the importance of building ventilation as compared to vaccination and quarantine in infection control. The technical plenary will take place Sunday, Jan. 24, 9:45 – 10:45 am.

Additionally, two free contractor-related sessions will be presented in conjunction with the AHR Expo held at the Orange County Convention Center. *Construction Management* will be held Monday, Jan. 25, 2-3 pm and *Cost/Benefit Analysis Methodology and Tools Needed by Owners* will be held Tuesday, Jan. 26, 2-3 pm.

In all, the technical program features more than 90 programs and 300 speakers. The 2010 ASHRAE Winter Conference and will take place at the Rosen Shingle Creek hotel, Orlando, Fla. For complete conference information, including abstracts on all technical program sessions, or to register, visit [www.ashrae.org/orlando](http://www.ashrae.org/orlando).



## Upcoming Events

Mark your calendars for these dates:

- General meeting – November 17, 2009 Northstar Battery Tour
- Young Engineers in ASHRAE night December 8, 2009 – 6:00pm, Pool Tournament at the Fox and Hound.
- General meeting – December 15, 2009 “Engineering Ethics” presented by Roddy Rogers
- General Meeting – January 19, 2010 “Life Cycle Cost Analysis”

## Trivia Tidbit

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

After a dam is created the water upstream of the dam begins back up, creating a reservoir. The weight of this water creates pressure on the underlying bedrock.

This excess pressure is known to have triggered earthquakes near at least three of the dams throughout the world.

# 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. It is estimated that the 2010 standard will result in 25 to 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.

## 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.