



Mississippi Valley Chapter Newsletter

October 2009

<http://www.mississippivalleyashrae.org>

Monthly Newsletter

Important Dates

- **October 15, 2009**
Energy Audits
- **November 19, 2009**
Alternative Refrigerants
- **December 2, 2009**
Christmas Party Sign-up
Deadline
- **December 17, 2009**
Christmas Party @ Circa
21 Dinner Theater -
Holly Jolly Christmas
- **January 21, 2010**
To follow
- **February 18, 2010**
ASHRAE'S Building
Energy Labeling
Program
- **March 18, 2010**
Seminar
- **April 15, 2010**
Hybrid Geothermal
Systems
- **May 20, 2010**
To follow
- **June 2010**
Golf Outing

Energy Audits

Duane Paul

Duane Paul is a Project Manager in Nexant's Energy and Carbon Management Division and is located at the Madison, WI office. He has over 25 years of professional mechanical engineering experience.

Duane heads up Nexant's Commercial Technology Group that provides program assistance and technical support to energy efficiency programs. His responsibilities include providing retro-commissioning services to clients, performing walk-through energy audits in commercial and industrial facilities, completing detailed technical reviews of projects, and mentoring staff on HVAC systems and energy improvement projects in commercial buildings.

Duane holds a M.S in Mechanical Engineering and a B.S. in Nuclear Engineering from the University of Wisconsin-Madison. Duane is a Professional Engineer (PE) in Wisconsin, a LEED accredited professional and a Qualified Commissioning Process Provider.

Duane is a member of the National Society of Professional Engineers (NSPE), the American Society of Mechanical Engineers (ASME), and American Society of Heating, Refrigeration and Air Conditioning engineers (ASHRAE).

Technical Topic

Energy audits identify energy improvement projects that reduce energy use and the cost of operating a building. As the price and demand for energy continue to escalate, energy audits provide building owners and operators the ability to make informed decisions regarding energy usage and potential improvements. Key elements that will be reviewed in the presentation include benchmarking, walk-through site visit procedures, data analysis, and typical findings. Additionally, an overview of several example improvement projects will be presented.

October 15th Program

Location: The SteepleGate Inn
Symposium Room
100 W 76th St
Davenport, IA

Program: Energy Audits

Agenda: 4:30-5:30 Program
5:30-5:45 Meeting at SteepleGate
5:45-6:45 Dinner at SteepleGate

Menu: Sicilian Chicken
Tossed Salad
Fresh Seasonal Vegetables
Baked Potato
Freshly Baked Dinner Rolls
Black Forest Cake



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ASHRAE News

Proposed High-Performance Building Standard 189.1 Draws Nearer to Publication Date

ATLANTA – The total building sustainability package, addressing everything from design and commissioning to plans for high-performance operation, is covered in a proposed green building standard currently open for public review.

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. It is expected to be published in early 2010.

<http://www.ashrae.org/pressroom/detail/17295>

Carbon Monoxide Alarms Proposed for ASHRAE Residential Ventilation Standard

ATLANTA – In a change that would bring its residential ventilation and indoor air quality standard closer in line with that of the 2009 International Residential Code, ASHRAE is proposing that carbon monoxide alarms be required in homes.

Under proposed addendum I to ANSI/ASHRAE Standard 62.2-2007, *Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings*, carbon monoxide alarms would be required to be installed outside of each sleeping area. The proposed addendum is open for public comment until Oct. 26, 2009. Nine other addenda, unrelated to CO, also are open for review. Steve Emmerich, chair of the Standard 62.2 Committee, said that as the standard becomes more widely used as a result of its adoption into building codes and green building programs, several clarifications are being addressed through proposed changes.

<http://www.ashrae.org/pressroom/detail/17293>

Memorandum of Understanding with IGBC to Promote Sustainability around the World

ATLANTA—The signing of a memorandum of understanding between ASHRAE and the Indian Green Building Council (IGBC) represents the country's potential as a market for constructing energy efficient buildings.

The MOU between ASHRAE and IGBC, a not-for-profit organization that promotes energy efficiency in buildings, allows the two societies to share products, jointly promote educational programs and, where appropriate, cross-market each other's products and services.

<http://www.ashrae.org/pressroom/detail/17292>

Digital Journal

http://www.nxtbook.com/nxtbooks/ashrae/ashraejournal_200904/#/0

Industry News

Citi Builds LEED® Platinum Data Center

FRANKFURT, Germany—Citi has opened a 230,000 ft² (21 000 m²) data center here that it says is the first data center to earn LEED® Platinum certification from the U.S. Green Building Council (USGBC). The financial services company says the new data center consumes only 30% of the power required for a conventional data center. According to Citi, the facility incorporates a 63% free-cooling rate. Other features include a vegetative roof, an enhanced CRAC unit design that reduces power consumption, modular cabinets and reduced water use. Citi says the facility was built for about the same money as more conventional data centers.

<http://images.ashrae.biz/redirect/?url=1336>

Study Finds Health Hazards at Ice Rinks

BRISTOL, Conn.—Indoor ice arenas with poorly maintained ice-resurfacing machines and inadequate ventilation create potentially dangerous health hazards, according to an investigation by ESPN news program "E:60." The investigation found that in the past six months, nearly 200 people have been sickened by carbon monoxide, nitrogen dioxide and ultrafine particles emitted from poorly maintained ice resurfacing machines.

<http://images.ashrae.biz/redirect/?url=1338>

Europe Moves Up Deadline for 'Greener' Automobile AC

LONDON—The European Commission recently ruled that a 2006 law, the mobile air-conditioning directive (MAC), will become effective in 2011 rather than 2017 as the European automotive industry has wanted. Automakers cite economic problems in producing sustainable technologies and fuel-efficient vehicles. The Commission says that refrigerants used in current air-conditioning systems in most European cars have a global warming potential much higher than the 150 set by the MAC law.

<http://images.ashrae.biz/redirect/?url=1339>

Regional Credits Added to New Version of LEED®

WASHINGTON—The U.S. Green Building Council (USGBC) has added LEED® regional credits to LEED 2009, the new version of the LEED Green Building Rating System. LEED regional credits encourage specific regional environmental priorities be addressed in the design, construction and operations of buildings in different geographic locations. "Regionally specific credits give LEED a way to directly respond to diverse, regionally grounded issues," said Brendan Owens, a USGBC vice president.

<http://images.ashrae.biz/redirect/?url=1340>

Study Finds Link Between Asthma, Obesity and AC Use

COLUMBIA, Md.—Increases in asthma and obesity in the U.S. correlate with the nation's increased use of central heating and air conditioning, according to a recent study. The study by the National Center for Healthy Housing analyzed relationships between health status and housing quality over a 30-year period. The researchers postulated that increased thermal comfort inside air-conditioned homes can encourage residents to remain indoors. Sedentary habits can lead to obesity, and spending many hours in a poorly ventilated home can increase the chances of developing asthma.

<http://images.ashrae.biz/redirect/?url=1327> to read the report.

EPA Formally Declares 6 GHGs as Dangerous

WASHINGTON—The U.S. Environmental Protection Agency (EPA) has formally declared carbon dioxide and five other greenhouse gases to be pollutants that endanger public health. The ruling sets in motion a process that will lead to the regulation in the U.S. of the gases, which include HFCs. The April 17 ruling initiated a 60-day comment period before any proposals for regulations governing emissions of heat-trapping gases are published.

<http://images.ashrae.biz/redirect/?url=1328>

World Trade Center Project Won't Be Fully Occupied Until 2037, Says Study

NEW YORK—The buildings intended to replace the World Trade Center won't be fully built and occupied until 2037, according to a new study. Delays that have plagued the site could drag on, pushing back the project's completion nearly a generation, said a marketing analysis prepared for the Port Authority of New York and New Jersey. The study predicts that the site's centerpiece, the 1,776 ft (541 m) 1 World Trade Center, won't be filled with tenants until 2019. Ground will be broken on other skyscrapers in the project as late as 2026, with full occupancy of the buildings taking several years after their completion.

<http://images.ashrae.biz/redirect/?url=1329>

AC Said To Ensure Optimum Sleep

MANILLA, Philippines—Samsung says its new air conditioner can determine a person's skin temperature and then maintains a specific room temperature range to ensure optimum sleep. The product is based on studies by the National Bukyong University in Korea, which found that the skin temperature needs to be 94°F–96°F (34.5°C–35.5°C) for the body to feel relaxed. A microchip in the Vivaldi split-system air conditioner monitors skin temperature and adjusts the cooling rate to ensure relaxation through three stages of sleep: falling asleep, sound asleep and waking up.

<http://images.ashrae.biz/redirect/?url=1330>

Check-out the Updated Chapter

Website at:

www.mississippivalleyashrae.org

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