



Mississippi Valley Chapter Newsletter

April 2010

<http://www.mississippivalleyashrae.org>

Monthly Newsletter

Important Dates

- April 15, 2010
Hybrid Geothermal
Systems
- May 20, 2010
The US Army Corps of
Engineers
Commissioning Lessons
Learned.
- June 4, 2010
Golf Outing

Hybrid Geothermal Systems

Jay Ramkumar

Jay Ramkumar has a bachelor's degree in Mechanical Engineering from State University of New York and a Master's in Construction Engineering from Iowa State University. He currently serves as an applications engineer for McQuay International. Jay works on new developments of water source heat pumps, geothermal heat pumps and energy modeling. Prior to working at McQuay International, Jay was an M.E.P project manager on geothermal projects. Jay is also a LEED AP.

Technical Topic

Hybrid geothermal heat pump systems couple conventional geothermal heat pump equipment with supplemental heat rejection or extraction systems. In cooling- or heating-dominated climates, the use of these supplemental systems has been shown to significantly improve the economics and energy usage of the system. However, the design and operation of hybrid geothermal are significantly more complex than geothermal and there is currently relatively little information available. This presentation will provide information on the optimization and economics of hybrid geothermal systems.

April 15th Program

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

Program: Hybrid Geothermal Systems

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

Menu: Two Mini Chicken Pillows
Tossed Salad
Fresh Seasonal Vegetables
Baked Potato
Freshly Baked Dinner Rolls
Strawberry Shortcake



Mississippi Valley Chapter Newsletter

April 2010

<http://www.mississippivalleyashrae.org>

Monthly Newsletter

ASHRAE News

Existing Building Upgrades: Energy-Conserving Practices and Policies Focus of NYC ASHRAE Conference

ATLANTA –From the city's most recognizable building to its first green commercial office tower, lessons learned underneath the sustainability skyline of New York City will be shared at an ASHRAE speciality conference in April.

Among the speakers at ASHRAE's *Existing Buildings in Urban Areas: Dramatically Cutting the Energy Waste*, are Tony Malkin, president, Malkin Properties, a real estate firm that owns and manages over 14 million square feet of office, retail residential and other properties in 15 states, including the Empire State Building, and Jody Durst, co-president, The Durst Organization, the owner, manager and builder of 9 million square feet of mid-town Manhattan office and residential properties, including 4 Times Square. These owners will help highlight NYC's ground-breaking "Greener, Greater Buildings" laws, the first in the nation to address energy usage in existing buildings.

<http://www.ashrae.org/pressroom/detail/17466>

ICC, ASHRAE, USGBC and IES Announce Nation's First Set of Model Codes and Standards for Green Building in the U.S.

ATLANTA – What do organizations representing building safety professionals, energy and lighting engineers, green building practitioners, architects and technical standards developers have in common? They have all come together to green the nation's built environment by establishing a comprehensive model green building code designed to rapidly advance green building practice across the U.S.

The International Code Council (ICC), the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), the U.S. Green Building Council (USGBC), and the Illuminating Engineering Society of North America (IES) today announce the launch of the International Green Construction Code (IGCC), representing the merger of two national efforts to develop adoptable and enforceable green building codes. The IGCC provides the building industry with language that both broadens and strengthens building codes in a way that will accelerate the construction of high performance green buildings across the U.S.

<http://www.ashrae.org/pressroom/detail/17468>

21 Changes Proposed for Standard 90.1

ATLANTA – Public input to help shape the technical requirements in Standard 90.1 is being sought through 21 proposed addenda, which could become part of the 2010 standard.

ANSI/ASHRAE/IESNA Standard 90.1-2007, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, The proposed addenda cover a range of topic areas, including daylighting, air leakage, EER and IEER values and requirements for VRF air conditioners and heat pumps. provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings.

<http://www.ashrae.org/pressroom/detail/17453>

Changes Proposed for Standard 90.1 Address Metal Buildings

ATLANTA – Changes to assembly descriptions and U-Factors regarding metal building assemblies are being considered in the 2010 version of Standard 90.1, expected to be published in the fall.

ANSI/ASHRAE/IESNA Standard 90.1-2007, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings.

The changes regarding metal buildings are among many being proposed for the 2010 standard. Some 43 addenda already have been approved, impacting the standard in a variety of ways from energy recovery to controls to daylighting.

<http://www.ashrae.org/pressroom/detail/17408>

Digital Journal

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

Industry News

ENERGY STAR Vulnerable to Fraud, Say Federal Auditors

WASHINGTON—The U.S. Department of Energy (DOE) and the Environmental Protection Agency (EPA) plan to institute independent product verification of all ENERGY STAR™ products after a report to Congress from the Government Accountability Office concluded that the program is highly vulnerable to fraud. The report cites a nine-month study that found more than a dozen fraudulent products, including a “gasoline-powered” alarm clock and an air purifier that was an electric space heater with a feather duster pasted on top. In addition to independent verification, the DOE and EPA say they have started legal actions against companies that break the rules.

<http://www.nytimes.com/2010/03/26/science/earth/26star.html?ref=energy-environment&loc=interstitialskip>

Interactive Online 'Map' Provides PV Installation Data

WASHINGTON—The National Renewable Energy Laboratory (NREL) has developed an online service that shows where photovoltaic (PV) panels are being installed, how big the installations are, how much they cost and how fast the industry is growing. The database-driven "Open PV" map can be searched by state and ZIP code. It includes a timeline of data from 2000–2010.

<http://openpv.nrel.gov/>

Insurance Commissioners Decide Against Mandatory Climate Change Disclosure

DENVER—The National Association of Insurance Commissioners (NAIC) has backed away from a mandatory requirement for insurance companies to disclose to regulators the financial risks the companies face from climate change. Under the requirement passed by NAIC in 2009, all insurance companies with annual premiums of \$500 million or more would have been required to complete an Insurer Climate Risk Disclosure Survey every year, beginning in May. However, at the recent NAIC spring meeting, the commissioners adopted a new version of the survey. The new survey adds qualifications that it is not meant to "express an opinion on the existence or absence of climate change." It also prohibits the use of the survey for any purpose relating to regulatory consideration of a proposed rate change.

<http://images.ashrae.biz/redirect/?url=1779>

Check-out the Updated Chapter

Website at:

www.mississippivalleyashrae.org

2009-2010 Officers/Board of Governors

President:	Patrick Igou
Vice President:	Simon Possin
Treasurer:	Jake Vorac
Secretary:	Nate Jacques
Past President	Andrew Price
Member at Large:	Erick Granzow
Member at Large:	Brian Hodgins

2009-2010 Committee Chairs

CRC Delegate:	Bruce Davis
CRC Alternate:	Simon Possin
Historian:	Sherm Sweeney
Membership:	Tracy Van Damme
Programs:	Patrick Igou
Resource Promotion:	Andrew Price
Seminar:	Bruce Davis
Student Activities:	Cris Washburn
CTTC:	Bruce Davis
Webmaster:	John Schaub



Mississippi Valley Chapter
ASHRAE
Attention: Pat Igou
One John Deere Place
Moline, Illinois 61265