



Mississippi Valley Chapter Newsletter

October 2007

<http://www.mississippivalleyashrae.org>

Monthly Newsletter

Event Schedule

• **September 20, 2007**

Hydraulics – Back to Basics

• **October 23, 2007**

The Path to Sustainability Using Renewable Energy

• **November 15, 2007**

To be determined.

• **December 20, 2007**

Social Night

• **January 17, 2008**

Ammonia Refrigeration

• **February 21, 2008**

CTTC

• **March 20, 2008**

To be determined.

• **April 17, 2008**

History

• **May 15, 2008**

Student Activities

• **June 2008**

Golf Outing

Attention: Meeting Date and Time Change!!!!

This month's meeting will be on Tuesday October 23, 2007 instead of Thursday October 18, 2007. This is a joint meeting with ASPE (American Society of Professional Estimators). Sign up will still be on the Chapter Website. There will also be discussion on the Social Night Program selection for member input.

“The Path to Sustainability Using Renewable Energy”

The content of the presentation will show the trends of renewable energy in general, and why they are getting so much traction in today's markets with a primary focus on wind generation, the manufacturing of components, construction, and benefits of utilizing wind.

October 23rd Program

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

Program: The Path to Sustainability Using Renewable Energy

Agenda: 5:30-6:30 Social Hour and Business Meetings
6:30-7:00 Dinner
7:00 Program

Menu: Chicken Marsala
Tossed Salad
Seasonal Vegetable
Dessert Special

Cost: Members: Free
Others: \$15

RSVP: [Online](#) or call Simon Possin at 309-793-3568 by Friday, October 19th.

Speaker: Kirk M. Heston

Kirk M. Heston is currently the Business Development Director for Renewable Energy Solutions – Wind, at Johnson Controls and also a member of APEC (Association for Professional Energy Consultants). Kirk started in the piping industry in 1979, joined Johnson Controls in 1987 in the construction field. Throughout the 20 years at JCI, his experience includes working in all sectors of JCI business, Service, Systems, Solutions, and now focused on Renewable Energy Solutions since 2007. His education in wind has

come from pioneering the project at Erie CUSD #1, from concept to completion, the first school district in the nation to tie-in all academia buildings into a single WTG (Wind Turbine Generator), being an active member/participant at AWEA (American Wind Energy Association) events, and seminars, hands-on training at the WTG manufacturer's plants.

Winter Heating Costs Predicted to Increase 10.5%

WASHINGTON — Consumers will likely pay record prices to heat their homes this winter, with a particularly big jump expected in heating oil bills, according to a report to be released today showing how a recent surge in oil prices could hit homeowners.

The average U.S. household will pay \$992 in heating costs this winter, up \$94, or 10.5%, from last winter, says the National Energy Assistance Directors' Association (NEADA), a group of state energy aid officials.

For heating oil customers the increase may be particularly dramatic. The average U.S. heating oil bill is expected to be a record \$1,834 for the winter, up 28% from a year ago and double the cost seen four winters ago. Average prices are expected to top \$3 a gallon, up from \$2.48 last winter. The sharp, expected increases are attributed to elevated crude oil prices and low inventories.

Eight percent of U.S. homes use heating oil, mainly in the Northeast. "Everything points to a tough couple of months," NEADA executive director Mark Wolfe says. "(Some) people who could afford last year's prices, can't afford this year's."

Natural gas customers are expected to see their tab rise nearly \$50 this winter to \$881, a 5% increase. More than half of U.S. homes are heated with natural gas. Electricity customers will likely see a 7% increase in their heating bill to a record \$883, according to the NEADA. Any forecast for winter heating costs is subject to weather. Neil Gamson, analyst at the federal government's Energy Information Administration (EIA), says weather forecasts so far point to a colder winter than last year, suggesting higher bills may be in store. Oil Price Information Service analyst Tom Kloza notes heating oil prices are likely to be highly volatile this winter.

"If it is severely cold from Thanksgiving Day through Valentine's Day, we will see a spike that could take prices up 25 to 50 cents a gallon in the blink of an eye," he says. The EIA in two weeks will release its official forecast for winter heating bills.

The projected increase in heating oil costs comes as oil prices have broken records in recent weeks, hitting more than \$80 a barrel. A tight supply-demand balance has pushed up prices. Natural gas prices have

also gained.

Oil retreated Monday after a tropical depression that had threatened energy production in the Gulf of Mexico petered out before causing any damage. Light, sweet crude for November delivery fell 67 cents to \$80.95. But natural gas prices continued their ascent.

Higher oil prices are also starting to be seen at the gasoline pump. After falling last week, the nationwide average price for a gallon of regular gasoline rose 2.5 cents Monday to \$2.812, the EIA says. Prices are up 43 cents from a year ago.

Standard 90.1 Addenda Proposed for Review

ATLANTA – Energy-savings measures related to variable air volume and cooling towers are being proposed for Standard 90.1.

ANSI/ASHRAE/IESNA Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings, provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings. Fourteen proposed addenda to the standard currently are open for public comment.

Under proposed addendum l, closed circuit cooling tower requirements to help reduce energy consumption would be added to the standard. The addendum would add minimum efficiency and certification requirements for both axial and centrifugal fan closed circuit cooling towers, also known as fluid coolers.

“These requirements will provide consulting engineers, system designers and contractors with guidelines for the selection of independently certified, energy-efficient closed circuit cooling towers,” Mick Schwedler, chair of the 90.1 committee, said. “This change also will complement existing minimum and certification requirements for open circuit cooling towers, helping prevent confusion between the requirements for open vs. closed.”

Also open for public comment is addendum n, which extends variable air volume (VAV) fan requirements for large single-zone units. VAV fan control currently is required in the standard for multiple-zone systems. Extending VAV control to single-zone units would save energy by reducing fan energy consumption when space cooling loads are reduced, he said.

The change would take effect in 2012, allowing air conditioning unit manufacturers time to redesign and test their units. Manufacturers are currently redesigning to meet the 2010 phase-out of certain refrigerants.

“Utility rebate programs and other incentives should encourage wider

demand for these units and help this requirement to see real savings before 2012,” he said.

In addition, addendum r, which would change informative Appendix G’s performance rating method into a normative appendix, is open for comment. Making the performance rating method normative, or required, would allow its adoption into advanced energy standards, such as proposed Standard 189P, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings, being developed by ASHRAE in conjunction with the Illuminating Engineering Society of North America and the U.S. Green Building Council. Additionally, language has been changed to make Appendix G enforceable allowing adoption by model codes.

Proposed addenda open for review until Oct. 14, 2007, are located on the ASHRAE website.

2007/2008 Research & Promotion:

I would like to thank the following members who have already made a donation to ASHRAE Research. Jim Thompson \$350.00, Jim Conrad \$250.00, Andy Price \$100.00 and RW Cardella, Inc. Keokuk \$150.00. Lets all Be part of this group this year. BOG members will be all donating \$100.00 each so we can make Full Circle. All Trane Employees are you aware that Corporate will match every dollar you donate. A fifty dollar donation by you would get you on the \$100.00 honor roll with the Corporate match.

Thank you - Bruce Britson RP Chair

2006-2007 Officers/Board of Governors

President: Jim Nonnenmann
Vice President: Andrew Price
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Secretary: Simon Possin
Past President: Bruce Britson
Member at Large: Eric Granzow
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2006-2007 Committee Chairs

CRC Delegate: Andrew Price
CRC Alternate: Patrick Igou
Historian: Sherm Sweeney
Membership: Tracy Van Damme
Programs: Patrick Igou
Resource Promotion: Bruce Britson
Seminar: Bruce Davis
Student Activities: Matt Schneider
CTTC: Jon Bovenkamp
Webmaster: John Schaub

Monthly Meetings

The regular monthly meetings for the Mississippi Valley Chapter of ASHRAE are held on the 3rd Thursday of each month from September to May unless otherwise noted. Meetings are located at the Steeplegate Best Western in Davenport Iowa unless noted otherwise.

Only You Can Help!!!

In order for our chapter to grow and maintain the great membership we have enjoyed, we need volunteers to help with the running of the chapter. Volunteers are needed for the following committees:

Membership CTTC
Student Activities History
Resource Promotion

Contact any officer or committee chair to Volunteer!

Check-out the Updated Chapter Website at:

www.mississippivalleyashrae.org



Mississippi Valley Chapter
ASHRAE
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