



Mississippi Valley Chapter Newsletter

February 2008

<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**
Closed Loop Water Treatment
- **December 14, 2007**
Social Night - Penguin's Comedy Club
- **January 17, 2008**
Ammonia Refrigeration
- **February 21, 2008**
Managing Your Energy- A Sustainable Activity
- **March 27, 2008**
Distinguished Lecturer
"What's My Carbon Footprint"
- **March 28, 2008**
Distinguished Lecturer
ASHRAE Standards 189P and 105
- **April 17, 2008**
History
- **May 15, 2008**
Student Activities
- **June 2008**
Golf Outing

TOPIC: Managing Your Energy –A Sustainable Activity

Dick Pearson will present an executive summary of this topic, which he will present as a short course at the ASHRAE Winter Meeting in New York. The program defines and illustrates Energy Management, an orderly process in which a manager uses resources at his disposal to improve building efficiency. Sustained Energy Management can dramatically reduce energy consumption, even in new buildings which have been designed to be highly efficient. Dick will show us examples of success in Madison, Milwaukee, and Chicago.

SPEAKER: Dick Pearson – Pearson Engineering

Dick Pearson is an ASHRAE Fellow. He has received Distinguished Service Citations from both ASHRAE and the UW-Madison College of Engineering. He is co-author of the Energy Use and Management chapter in the ASHRAE Handbook. He has been lead instructor at the UW Professional Development Energy Audit course for 20 years, and is principal author of the ASHRAE publication "Commercial Building Energy Audits." Stemming from his chairmanship of the ASHRAE Energy Management Committee in 1978, Dick's focus on each project has been simplicity and energy efficiency. Dick has teamed with numerous industry professionals to develop simple but effective

February 21, 2008 Program

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

Program: Managing Your Energy –
A Sustainable Activity

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

Menu: Prime of Pork
Tossed Salad
Seasonal Vegetable
Dessert Special

Cost: Members: Free
Others: \$15

RSVP: [Online](#) or call Simon Possin at 309-793-3568 by Wednesday, February 20.

Energy Management principles.

ASHRAE 'Reaches New Heights' at 2008 Winter Meeting

Major announcements at ASHRAE's 2008 Winter Meeting included free electronic distribution of the Advanced Energy Design Guide series, publication of the 2007 energy conservation standard from ASHRAE and IESNA, and signing of memorandums of understanding with the Brazil Green Building Council and the Building Owners and Managers Association. More than 2,700 people attended the meeting, held Jan. 19-23 in New York. The AHR Expo, held in conjunction with the ASHRAE Meeting, set a new attendance record with 39,298 registered visitors (excluding exhibitors). Records for a Northeast HVAC&R event also were set with total number of exhibitors of 1,885 and 363,505 ft² (34 000 m²) of exhibit space. The Meeting's theme was *Reaching New Heights*, a nod to the skyline of New York. "ASHRAE hit new heights at this meeting in regard to driving the industry forward through our distribution of technical information, educational offerings and net working opportunities," said ASHRAE President Kent Peterson.

Car-Free, Solar-Powered City

ABU DHABI, United Arab Emirates—Groundbreaking is scheduled for Feb. 9 for Masdar City, a nearly self-contained mini-municipality designed for up to 50,000 people in the desert next to Abu Dhabi's international airport. The community is intended as a hub for academic and corporate research on nonpolluting energy technologies. The 2.3 square mile (6 km²) community will be set behind walls to divert hot desert winds and airport noise, and will be car free, according to London-based design firm Foster + Partners, which is leading the project. It will produce all of its own energy from sunlight. Water will flow from a solar-powered seawater-desalinization plant. The first phase is expected to be completed in the next two years.

CIA Goes Green: New Campus Helps LEED the Way

The CIA's newest campus in Northern Virginia represents the Agency's most ambitious effort to date to create a state-of-the-art work environment with a design that focuses on "green" principles. The design is so effective that the campus buildings have earned certification under the U.S. Green Building Council's prestigious Leadership in Energy and Environmental Design (LEED) Green Building Rating System.

The first office building, which opened its doors in 2007, earned LEED

Silver certification, while the visitor center and central plant each earned LEED Gold certification. New construction can earn one of four LEED ratings – certified, silver, gold, or platinum. The campus houses 25 percent of all LEED Gold certified buildings in the state of Virginia.

The second office building is currently under construction.

To earn LEED certification, the buildings performed well in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, indoor environmental quality, and materials selection.

Sustainable Site Development

- Comprehensive mass transportation program
 - Preferred parking for low emitting and fuel efficient vehicles and carpools
 - Bike racks
 - Public transportation to site
- Enhanced storm water management
 - Quality and quantity control
- Vegetated roof
 - 22,000 square foot vegetated roof

Water Savings

- Over 40% potable water savings
 - Low-flow water closets
 - Water efficient faucets and showerheads
 - Waterless urinals
 - Native landscaping at central plant

Energy Efficiency

- Over 21% energy savings
 - Occupancy sensors
 - Daylight and task lights
 - Energy efficient appliances and equipment
- Building commissioning
- 100% renewable energy certificates for visitor center

Indoor Environmental Quality

- 60% more fresh air supply
- Carbon dioxide monitors to provide fresh air when necessary
- Individual lighting controls and extensive outdoor views for occupants
- Low-emitting materials: paints, carpet, systems furniture,

- sealants, wood
- Green housekeeping program
- Indoor air quality
 - During construction management
 - Before occupancy testing

Materials Selection

- Over 50% construction waste diversion from landfill
- Over 20% recycled content in building materials
- Extensive use of building materials from regional sources
- Recycling for building

As a result of these features, the buildings consume about 21 percent less energy and 40 percent less water, provide healthier indoor work environments, and have less of an overall environmental impact than comparable buildings of the same size and use.

“The first building is an ecologically sensitive building - reducing our impact on the global environment while improving the quality of the workspace for the individual,” said Camille Hersh, chief of CIA’s Facilities. “The CIA has taken great care in creating a comfortable workplace that fosters efficiency and collaboration while respecting our natural resources.”

2007/2008 Research Promotion:

We have had a good start for this year but if we are going to be able to reach our goal we need to step up our individual donation efforts. I am asking all members to donate at the \$100.00 level and give those checks to me. Remember all Trane employees that a fifty dollar donation by you would get you on the \$100.00 honor roll with the Corporate match. Johnson Controls has implemented the same matching program as Trane’s and we have \$190.00 in matching funds to date. All checks need to be made out to ASHRAE Research. I may not be in our area anymore but will still be finishing out the year and continue to hound you on making an investment in RP.

Thank you - ***Bruce Britson RP Chair***

2006-2007 Officers/Board of Governors

President: Jim Nonnenmann
Vice President: Andrew Price
Treasurer: Pat Igou
Secretary: Simon Possin
Past President: Bruce Britson
Member at Large: Eric Granzow
Member at Large: Brian Hodgins

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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