



# Mississippi Valley Chapter Newsletter

May 2007

<http://www.mississippivalleyashrae.org>

Monthly Newsletter

## Event Schedule

- September 21, 2006  
Daylighting and Its Impact on HVAC
- October 19, 2006  
Commissioning for LEED Projects
- November 16, 2006  
RP 1219 HVAC Acoustics
- December 20, 2006  
Social Night – Dinner Theater at Circa 21
- January 18, 2007  
Air Barriers for Building Envelope
- February 15, 2007  
Dedicated Outdoor Air Systems
- March 15, 2007  
Variable Primary Flow Pumping Strategy
- April 26, 2007  
History of Steam Heat
- May 17, 2007  
Building Tour – John Deere Harvester Works
- June 1, 2007  
Golf Outing

## Tour of John Deere Harvester Works

This month our meeting program will be a tour of the John Deere Harvester Works combine manufacturing facility. The plant was originally opened in 1913. Today, the facility contains 3.3 million sq ft of floor space situated on 223 acres of land and employs roughly 1600 people at peak production.

The first combine was manufactured in 1927, with the first self-propelled combine manufactured in 1947. During World War II, the Harvester plant produced aircraft wings.

A modular manufacturing concept is employed. The factory is arranged into 18 product-focused businesses called modules. Examples: grain tank, feederhouse, body, main assembly, engine platform, elevators, cornhead, platform, etc. Sheet metal parts are delivered to the

various module departments to be subsequently welded and assembled into sub-assemblies or modules. The completed module is transported via overhead conveyor to the paint system, is painted, and is delivered directly to the main assembly line for final assembly – all in sequence.

We plan to tour the powerhouse, paint area, sheetmetal bending operations, and the new front office and visitor's center (currently under construction).

Please bring a hard hat and safety eye glasses for the tour.

After the tour, we will travel to the Captain's Table restaurant (4801 River Drive, Moline) for our meeting and dinner.

### May 17<sup>th</sup> Program

**Location:** John Deere Harvester Works  
1100 13<sup>th</sup> Avenue  
East Moline, IL

**Program:** Tour of Harvester Works

**Agenda:** 4:00-5:00 Program  
5:30-5:45 Meeting at Captain's Table  
5:45-6:45 Dinner at Captain's Table

**Menu:** Order from the menu

**Cost:** Members: Free  
Others: Price of your dinner

**RSVP:** [Online](#) or call Pat Igou at 309-748-5903 no later than Monday, May 14.



*Directions to Harvester (1100 13<sup>th</sup> Ave., East Moline)*

Harvester Works is shown as number 5 on the above map.

Turn into the Harvester Works facility off 13<sup>th</sup> Avenue in East Moline. Take the first right into the main office parking lot. Park wherever possible. Come into the front entrance and gather at the security desk. Tour leaves at 4 PM.

*Purdue Professor Chosen for First ASHRAE D.C. Fellowship*

An associate professor from Purdue University has been selected for ASHRAE’s first Washington, D.C., Federal fellowship.

“I am eager to learn about how energy policies and research strategies are formulated at the federal level,” William “Bill” Hutzel, P.E., who works in Purdue’s College of Technology, Department of Mechanical Engineering Technology, said. “I hope to play a small role in advocating for sustainable design practices in buildings. I am proud to be representing ASHRAE because it is the professional society ideally suited for leadership on this important topic.”

The one-year fellowship allows participants to work in the federal government in a technical advisory role. This year’s Fellow will be placed on Capitol Hill, most likely in the Science Committee staff office.

At Purdue, Hutzel teaches undergraduate courses in thermodynamics, controls, fluid mechanics and HVAC. He has developed a modern laboratory to teaching graduate-level facilities engineering courses and conducting applied research. Recent projects have designed an air flow testing laboratory for heat recovery equipment, used Web-enabled building controls for remotely accessible laboratory experiments, and evaluated the performance of evacuated tube heat pipe solar collectors.

He serves as co-faculty advisor for the ASHRAE Purdue Student Branch.

The fellowship is designed to educate participants on the inner workings of

federal policy-making, to provide scientific guidance and analysis to decision-makers, and to increase the visibility and involvement of scientists and engineers in the public policy arena. The fellowship runs from September through August and typically begins after a two-week orientation sponsored by the American Association for the Advancement of Science.

ASHRAE members interested in applying for the 2008 Fellowship can contact Doug Read, ASHRAE program director of government affairs, at e-mail [dread@ashrae.org](mailto:dread@ashrae.org).

## *ASHRAE, ACCA Publish Load Calculation Standard*

A new standard that establishes minimum requirements for performing load calculations has been published by the American Society of Heating, Refrigerating and Air-Conditioning Engineers. The standard was developed in conjunction with the Air Conditioning Contractors of America (ACCA).

ANSI/ASHRAE/ACCA Standard 183-2007, Peak Cooling and Heating Load Calculations in Buildings Except Low-Rise Residential Buildings, is available for purchase at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore).

Proper load calculations are the first step in any design process, says Chris Wilkins, chair of the committee that wrote the standard. "Efficiency and comfort are only possible if the equipment is selected to match the load."

The standard establishes minimum requirements for building loads that are inclusive of as many procedural methods as possible while identifying core elements that impact heat loss and gains. Requirements are non-prescriptive and are aimed at ensuring that developers of load calculation methodologies observe recognized good practices. The specifics in undertaking a load are left to the discretion of the industry professional by their selection and application of load methodologies that meet the standard.

The need for the standard was driven largely by the desire of the code enforcement community. Code references to the ASHRAE Handbook existed, making it the de facto standard.

"The industry recognized that we were the appropriate source for load calculation guidance, but the problem was that the ASHRAE Handbook was never intended to be a standard," says Wilkins. "Standard 183 now provides an appropriate compliance reference that reconciles each organization's needs."

"We are pleased that the standard meets the needs of our members," says Phil Forner, ACCA 2007 – 2008 chairman. "ACCA wants contractors to have access to the most accurate, efficient and effective design standards, and this will help contractors with commercial building load calculations."

The cost of Standard 183-2007 is \$24 (ASHRAE members, \$19) and is available in print and download versions. To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide); fax 404-321-5478; by mail at 1791 Tullie Circle NE, Atlanta, GA 30329; or visit the Bookstore at [www.ashrae.org](http://www.ashrae.org).

## Annual ASHRAE Research Golf Outing

### **ATTENTION ASHRAE GOLFERS !!!**

The annual ASHRAE golf outing will be held at the Golfmohr Golf Course near Hampton, Illinois on Friday, June 1, 2007. The purpose of this outing is to relax and have fun while raising money for ASHRAE Research. This year we will again have a sack lunch and drink at the course for each golfer starting at 12:00 p.m. To assist in the Research Fund Raising, we are asking individual and/or companies to again be Tee Sponsors of individual holes on the course. As in the past, a sign will be located at the 18 individual tee blocks indicating the sponsor or sponsors of that particular hole. To guarantee that we can get your sign made for the event, we must have all logos by May 18, 2007.

We would like you to continue your support towards ASHRAE Research. Every golfer is going to get the opportunity to win several nice prizes at our drawing following dinner.

The cost this year for being a Tee Sponsor is \$200 or Concession Sponsor is \$250. This includes one green fee, cart, sack lunch and steak dinner. The cost of a green fee, cart and steak dinner this year is \$60. Therefore, ASHRAE Research will collect an additional \$180 from each sponsor this year.

The setup of this golf outing has a capacity of 144 golfers. We will accept the first 144 paid golfers so get the entry forms and money in early to guarantee your spot now.

If interested in becoming a Tee Sponsor a Concession Sponsor, please contact Mike Taube or John Holbert, (<http://www.mississippivalleyashrae.org/HiQFM/golfcontactform.htm>) or send a check, made out to ASHRAE for the \$200 tee sponsor or \$250 concession sponsor, to Mike Taube or John Holbert in care of KJWW Engineering.

Entries are due no later than Friday, May 18, 2007. You may register on line (<http://www.mississippivalleyashrae.org/HiQFM/golfform.htm>) or you may download (<http://www.mississippivalleyashrae.org/golf/flyer.pdf>) the registration flyer and form. Let us make this a record breaking year.

Thank you for your support.

2006-2007 Officers/Board of Governors

President: Bruce Britson  
Vice President: Jim Nonnenmann  
Treasurer: Andrew Price  
Secretary: Pat Igou  
Past President: Gary Lange  
Member at Large: Eric Granzow  
Member at Large: Brian Hodgkin

2006-2007 Committee Chairs

CRC Delegate: Jim Nonnenmann  
CRC Alternate: Andrew Price  
Historian: Sherm Sweeney  
Membership: Tracy Van Damme  
Programs: Jim Nonnenmann  
Resource Promotion: Gary Lange  
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](http://www.mississippivalleyashrae.org)



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ASHRAE  
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