



# Mississippi Valley Chapter Newsletter

December 2006

<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 19, 2007  
History of Steam Heat
- May 17, 2007  
Building Tour – John Deere Harvester Works
- June 2007  
Golf Outing

## Social Night – Dinner Theater

This month, our meeting program is a social night for members and spouses. No technical program is included.

Registration for the dinner theater program closed on December 1.

### **Circa 21 Presents: IRVING BERLIN'S "WHITE CHRISTMAS"**

Rating: G

Irving Berlin's White Christmas is full of dancing, laughter and some of the greatest songs ever written! Based on the popular movie, this musical promises to be a merry and bright theatrical experience for the whole family!

## Join ASHRAE in Dallas and Get Energized! **ASHRAE's 2007 Winter Meeting Dallas January 27-31, 2007**

“Live Large. Think Big” is the new slogan for the City of Dallas.

I share that sentiment when it comes to ASHRAE. Through its standards, research and other guidance, your Society has built the technical foundation for energy conservation in buildings.

This year, we are striving to build on that foundation through a range of activities and programs related to energy and sustainability. I encourage you to join us in Dallas and be a part of the effort to think bigger when it comes to making buildings more energy efficient and sustainability.

The demand for new energy technology is shared throughout the world. ASHRAE is committed to meeting that need through its role as a global leader in the HVAC&R community. ASHRAE serves as a link in the global economy. Through ASHRAE, members from Dallas can reach out to engineers around the world, such as Dubai, Hong Kong and Germany, to work together to improve HVAC&R.

### December 20<sup>th</sup> Program

**Location:** Circa 21  
1828 3<sup>rd</sup> Ave.  
Rock Island, IL

**Program:** White Christmas

**Agenda:** 4:45-6:00 Social Hour  
6:00-7:00 Buffet  
7:15-7:45 Preshow  
7:45 Curtain

**Cost:** Members: Free  
Others: \$35.50

**RSVP:** **Registration is closed.**

The ASHRAE meeting is a strong part of our link, providing you with a first-hand look at the latest technology, building your education, networking with members from all over the world and influencing the direction of technology. I hope that you will take full advantage of the meeting and its opportunities.

Working together, we can create green buildings that use energy wisely, provide a productive indoor environment for occupants, and have a minimal impact on the environment. ASHRAE is a leader in the sustainability movement, and our meeting highlights what ASHRAE and the HVAC&R industry is doing to make buildings more energy efficient.

Join us in Dallas and get energized!

Terry Townsend, P.E.

ASHRAE 2006-07 President

### ***Become Part of the Green Team: New Guidance from ASHRAE***

ASHRAE GreenGuide: The Design, Construction and Operation of Sustainable Buildings will help teach designers how to participate effectively on design teams charged with producing green buildings.

“This is a design guide for mechanical engineers who are interested in advancing integrated, high performance/green concepts and applications on building design projects,” said Malcolm Lewis, Ph.D., a member of ASHRAE’s technical committee on building environmental impacts and sustainability, which wrote the book. “The guidance will help building professionals analyze system design options and point them in the right direction for deeper analysis.”

The book, an update to the 2003 version of ASHRAE GreenGuide, contains a new chapter outlining guidance on the Leadership in Energy and Environmental Design (LEED™) Rating System developed by the U.S. Green Building Council. The chapter discusses ways in which LEED credits affect engineers and how they can best respond to the opportunities presented by the use of LEED on projects.

“The GreenGuide will assist the design and development team in striving for a level of accountability as to the effectiveness of their efforts to produce a building that is truly green,” Lewis said.

The book also contains a new chapter on how HVAC&R systems interact with the local environment and methods for mitigating or reducing that impact.

“There are some areas that are either not intuitively obvious as being potential impacts of HVAC systems or are items that some may not consider to be truly sustainable issues,” Lewis notes.

The ASHRAE GreenGuide also contains more than 40 GreenTips, which are sidebars containing information on techniques, processes, measures or systems. The tips contain a list of other sources for reference. To read the GreenTips, visit [www.engineeringforsustainability.org](http://www.engineeringforsustainability.org).

This is the first in a new series of books, known as The ASHRAE Professional Series, published in cooperation with Butterworth-Heinemann/Elsevier. The series is intended to provide high-quality professional information for a global audience of HVAC&R engineers as well as professionals in related fields.

The cost of the ASHRAE GreenGuide is \$79.95 (\$62.95, ASHRAE members). 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 ASHRAE.org Bookstore at [www.ashrae.org](http://www.ashrae.org).

## Chapter Technology Award

It is time once again to think about potential projects for the Chapter Technology Awards. These awards are a chance for chapter members to show off their best work and to be recognized by the chapter. Entries may be forwarded to Region for further consideration.

The awards are accepted in the following categories: (Note at the Chapter level all entries will be judged in a single category.)

- I. Commercial Buildings (New and Existing)
- II. Institutional Buildings (New and Existing)
- III. Health Care Facilities (New and Existing)
- IV. Industrial Facilities or Processes (New and Existing)
- V. Public Assembly Facilities (New and Existing)
- VI. Residential Buildings (New and Existing)  
Single Family  
Multi-Family (Low and High Rise)
- VII. Alternative or Renewable Energy Use

Requirements:

1. Entries are to be submitted in the following format with no more than twelve (12) letter size (8 1/2 x 11 inches or S-I equivalent) pages, typed on one side only (font 12 characters per inch or equivalent), 1-inch margins, to include:
  - a. The Application Form. (Short or Long form is acceptable for Chapter Award, Long Form is required for Society award)
  - b. A maximum of ten (10) double-spaced, typewritten sheets to address items IV—VIII on page two of the long Application Form. (Charts, schematics, graphics are included in the 10-page limit. *All pages should be numbered*).
2. The entrant (1) must be a member (any grade) of ASHRAE or of an Associate Society, (2) must have a significant role in the project, and (3) must be willing to supply any additional information if requested

- by the judging panel.
3. The entrant, property owner and engineer of record must sign the entry Application Form where indicated. (Only required if submission for Region and society awards is desired)
  4. The entrant must submit one (1) *completed entry form with original signatures* and (1) *additional copy of the complete entry*.
  5. The project must have been in successful operation for at least one year at the time of entry. (Only required if submission for Region and society awards is desired)
  6. In order for an entry to be judged at the Society level, it must have received a first-place award at the regional level.

#### General Instructions/Guidelines

1. A system schematic is strongly recommended (color-coded schematics may not duplicate well for the judges' black-and-white copies).
2. If a "judging criterion" is not applicable to the entry, a brief explanation should be provided.
3. Claims that are not sufficiently supported with verifiable technical evidence may receive little or no credit.
4. Information should be clear and concise.
5. If the project involves technology which is new and innovative, this feature should be clearly identified.
6. Commercialized items and notations are to be avoided. *Brand names of equipment or processes should not appear in the entry.*
7. Information may be submitted in I-P or S-I units or a combination of both.
8. All text must be in English.
9. Entries should be legible, uncluttered and attractive. The competition does not require nor encourage the entry be professionally produced.
10. Photographs are neither necessary nor encouraged (because judges use black-and-white duplicated copies).

#### Judging Criteria

Energy Efficiency (15 points)

Indoor Air Quality (IAQ) and Thermal Comfort (15 Points)

Innovation (15 Points)

Operation and Maintenance (15 Points)

Cost Effectiveness (15 Points)

Environmental Impact (15 Points)

Quality of Presentation (5 Points)

Judges' Prerogative (5 Points)

The applications for the technology awards may use either the short or long form as found on ASHRAE's Website. To find the forms go to the ASHRAE

CTTC web site ([www.ashrae.org/publications/detail/14692](http://www.ashrae.org/publications/detail/14692)). This page will have links to PDF files for both the short and long entry forms. The use of the long form is encouraged if the applicant would like to submit their project to the regional level.

Applications are due by March 3<sup>rd</sup>. Awards will be judged using the same criteria used for regional and society technology awards. Awards are given at the discretion of the judges. Award Winners will be announced at the April meeting. Chapter awards will be as follows:

1<sup>st</sup> Place: \$100 cash prize

2<sup>nd</sup> Place: \$50 cash prize

Each entrant will receive a \$50 gift certificate for use at a local restaurant.

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 Hodgins

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: Eric Granzow

Engineers Week

National Engineers Week is February 18 through 24. The Quad City Engineering and Science Council will sponsor the 45<sup>th</sup> Annual National Engineers Week Banquet on February 23. The speaker will be Bruce Wood, CEO of ePower Synergies, Inc. The topic will be The Power of the Future – Hydrogen and Fuel Cells. The banquet will begin at 5:30 at The Lodge in Bettendorf. The cost is \$30/person. Reservations can be made on-line at [www.qcesc.org/banquet.htm](http://www.qcesc.org/banquet.htm) or call 309-737-5895.



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

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.

[www.mississippivalleyashrae.org](http://www.mississippivalleyashrae.org)

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:

<b>Membership</b>	<b>CTTC</b>
<b>Student Activities</b>	<b>Webmaster</b>
<b>Resource Promotion</b>	<b>History</b>

Contact any officer or committee chair to Volunteer!

Sponsors Needed

The Mississippi Valley Chapter of ASHRAE is bringing Dan Holohan to our April 19<sup>th</sup> chapter meeting to speak on the History of Steam Heat. Dan is a nationally know author and lecturer with an entertaining style. The chapter is looking for sponsors to help defray a portion of the costs to bring Dan to the Quad Cities. If you can help, please contact Andrew Price at 563-264-6600.