



# Mississippi Valley Chapter Newsletter

November 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  
Student Activity Night
- 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
- June 2007  
Golf Outing

## RP 1219 HVAC Acoustics

This month, our meeting program is on qualifications of duct rumble noise. The presentation is based on ASHRAE research project 1219 - The Quantification of Duct Rumble Noise Resulting From Aerodynamic System Effects at the Discharge of a Centrifugal Fan.

Josh Kading has a bachelors and masters degree from Iowa State University. He started working for Stanley Consultants in July 2006. Josh's academic focus has been in thermodynamics, power systems and fluid mechanics. His masters' research was focused on fan aerodynamics, fan operating controls, variable frequency drives, and effects on HVAC ductwork. He also has experience in test facility design/construction, vibration and acoustic isolation, acoustical analysis, and ductwork aerodynamics.

Adin Mann's technical specialties are noise and vibration control, with current work focusing on developing predictive models of noise. Current activities include experimental and modeling work on the noise generated by cooling fans, control valves, flow in pipes, and superchargers. Dr. Mann also has experience in assessing the noise environment in industry and laboratory facilities and then developing noise control strategies. Research has also developed means to use sound to detect flaws, such as flaws in material. He received his BS in Engineering Science at Iowa State University in May 1984, a doctorate in acoustics from Pennsylvania State University in May 1988, spent a year working at CETIM in France, and then started at ISU in 1989. While at ISU, Dr. Mann has spent one summer in the NAVY-ASEE Faculty Fellowship program, working at the Naval

Research Lab, and one year working at Royal Appliance and NASA Glenn, both in Cleveland Ohio. He is currently a member of the Council for the Accreditation in Occupational Hearing Conservation (CAOHC) and is an active member of the Institute for Noise Control Engineers (INCE-USA).

### November 16<sup>th</sup> Program

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

*Program:* RP 1219 HVAC  
Acoustics

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

*Menu:* Prime Pork  
Glazed Carrots  
Tossed Salad  
Parsley Buttered Potato  
Surprise Desert

*Cost:* Members: Free  
Others: \$15

*RSVP:* [Online](#) or call Pat Igou  
at 309-748-5903 by  
Monday, November 13.

## ASHRAE Winter Meeting Centers on Energy Efficiency

ASHRAE will be showing off its technical expertise at the 2007 AHR Expo in January. For the first time, 16 technical sessions will be held at the AHR Expo during the 2007 ASHRAE Winter Meeting in Dallas. Designed to share ASHRAE's technical guidance with Expo attendees, the sessions include topics such as vibration control, energy-efficient ventilation systems, using ground-source heat pumps in schools, and new BACnet capabilities.

"Offering attendees an opportunity to learn about the latest advancements in technology via the technical program complements the Expo, which features those advancements being incorporated into products and equipment," says Ginger Scoggins, chair of the program committee. "These sessions make ASHRAE's meeting and top-rate technical program more visible while at the same time drawing more meeting attendees to the expo."

In addition, ASHRAE will present a comprehensive technical program at the Adam's Mark Hotel, January 28-31. The overall six-track technical program centers around energy efficiency in buildings and includes such seminars as Achieving a 50 Percent Approach to Net Zero Energy Use in Buildings and Risk Management of Infectious Airborne Diseases. The technical program consists of 67 seminars plus the 16 seminars at the convention center, 12 open-discussion forums, one public session, one poster session with 21 papers presented, and 18 transaction sessions with a total of 48 papers presented.

Also new for this year is the technical plenary speaker, National Geographic Magazine Executive Editor Dennis Dimick. Dimick, a picture editor specializing in environmental stories for more than 15 years, will address technical program attendees between sessions on Sunday, Jan. 28 at 9:30 a.m. at the Adam's Mark hotel about a 2004 project he oversaw on global climate change. Meeting registration is required to attend.

Registration for the 2007 ASHRAE Winter Meeting is \$630 (\$360, ASHRAE member) prior to Nov. 17. After Nov. 17, the registration fee will be \$655 (\$385, ASHRAE member). The deadline for advance registration is December 15. For more information or to register, visit [www.ashrae.org/dallas](http://www.ashrae.org/dallas).

Held with the ASHRAE Winter Meeting is the ASHRAE co-sponsored International Air-Conditioning, Heating, Refrigerating Exposition, Jan. 29-31, at the Dallas Convention Center. For more information, contact International Exposition Company at 203-221-9232, or visit [www.ahrexpo.com](http://www.ahrexpo.com).

## 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 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: Eric Granzow

December 20<sup>th</sup> is Social Night

December 20<sup>th</sup> the Mississippi Valley Chapter of ASHRAE will hold its annual social night. This year we will meet at **Circa 21** in Rock Island for Dinner Theater. Doors will open at 5 pm with social time until show time at 5:45 pm. Chapter members are admitted free. Each guest will cost \$35.50. Please mark your calendars. We will need to finalize reservations by November 30.



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

New Chapter Members

Please welcome a new member to the Mississippi Valley Chapter of ASHRAE:

Christopher Seberg

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.