



Mississippi Valley Chapter Newsletter

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

Dedicated Outdoor Air Systems

This month, we are fortunate to have an ASHRAE Distinguished Lecturer, Dr. Stanley Mumma, present Dedicated Outdoor Air Systems (DOAS): Field Experiences as our meeting program. Applications of DOAS have expanded significantly over the past 5 years. Specific attention will be given to controls, enormously expanded equipment choices, comfort and ADPI, energy performance, humidity control, loss of air side economizers, LEED points, parallel systems, and pitfalls.

Dr. Stanley Mumma, PE is currently a Professor of Architectural Engineering at Pennsylvania State University. Prior to joining Penn State in 1984, he was a General Motors Corporation project engineer for three years between his undergraduate studies in Mechanical Engineering at the University of Cincinnati, and his graduate work at the University of Illinois at Urbana-Champaign. Since earning his Ph.D. in Mechanical Engineering in 1974, under the mentorship of Dr. Will Stoecker, he has also held faculty positions at Ohio State University and Arizona State University. In the first third of his academic career, his research focused principally on solar and alternate energy. Then his interests changed to innovative ways of meeting ASHRAE Standard 62 in an energy efficient fashion. That work has led to his current intense interest in dedicated outdoor air systems (DOAS). He writes extensively on the subject (see <http://doas-radiant.psu.edu/papers.html>). Two of his publications were recipients of ASHRAE best paper awards. He has also received ASHRAE's Distinguished Service Award, the E.K. Campbell Award of Merit, and the grade of Fellow. Currently, Dr. Mumma is a member of several Technical Committees and the Society Publishing Committee.

February 15th Program

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

Program: *Dedicated Outdoor Air Systems*

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

Menu: *Swiss Steak
Glazed Carrots
Tossed Salad
Baked Potato
Desert*

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

RSVP: *[Online](#) or call Pat Igou
at 309-748-5903 by
Monday, February 12.*

Indoor Environmental Design Focus of ASHRAE Satellite Broadcast

Specific solutions to the everyday challenges of achieving indoor environmental quality within real-world budget constraints will be presented by ASHRAE in an upcoming satellite broadcast/Webcast.

Indoor Environmental Design: Practical Solutions to Everyday Problems, sponsored by ASHRAE's Chapter Technology Transfer Committee, will take place from 1-4 p.m. EDT, April 18.

"This program will benefit designers, building owners, architects, contractors and facility managers who are faced with the daily engineering challenge of specifying systems that maximize IAQ, thermal comfort and noise control," said Bill Williams, chair of the broadcast committee. "Viewers will be given guidance on how to provide ventilation air that helps protect buildings instead of increasing mold risk, how to avoid the three most common mistakes in ventilation system design and operation, and how to provide comprehensive filtration without breaking their budget."

Bill Coad, P.E., president of Coad Engineering Enterprises, St. Louis, Mo., and past ASHRAE president, will present an overview perspective on indoor environmental quality and introduce the following panel of experts:

- Hoy Bohanon Jr., P.E., owner and consultant, Bohanon Engineering Winston-Salem, N.C., "Ventilation System Design: Avoiding Three Common Mistakes."
- Lew Harriman, director of research, Mason-Grant, Portsmouth, N.H., "Ventilation Air: First, Do No Harm."
- Dan Int-Hout, chief engineer, Krueger-HVAC, Richardson, Texas, "Noise, IAQ and Thermal Comfort – Can You Have It All?"
- Chris Muller, technical director, Purafil, Doraville, Ga., "Behind the Access Door – Advances in Affordable Filtration for IAQ."

Online registration opens March 1 for satellite broadcast site coordinators and Webcast participants at www.ashrae.org/IEDbroadcast. Registration for satellite downlink viewers begins March 15. There is no fee for registration.

For more information, email or call
678-539-1139.

Chapter Technology Award

Last call for 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). 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 3rd. 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:

1st Place: \$100 cash prize

2nd Place: \$50 cash prize

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

Engineers Week

National Engineers Week is February 18 through 24. The Quad City Engineering and Science Council will sponsor the 45th 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 or call 309-737-5895.

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: 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.

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:

Membership **CTTC**
Student Activities **History**
Resource Promotion

Contact any officer or committee chair to Volunteer!

Tax Incentives for Energy Efficient Buildings

The Midwest Energy Efficiency Alliance is hosting a Workshop about the Federal Tax Incentives for Energy-Efficient Buildings in Des Moines on Wednesday, February 14. These tax incentives were made available for energy efficiency in the building sector by the Energy Policy Act of 2005, and which were recently extended through 2008. This is a chance to learn about the tax incentives available for energy efficient buildings from experts in the industry. This workshop will help you understand what tax breaks are available and what you need to do to take advantage of them. Register online at:

Sponsors Needed

The Mississippi Valley Chapter of ASHRAE is bringing Dan Holohan to our April 19th 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.

Current Sponsors

MidAmerican Energy – Gold Level
Northwest Mechanical – Silver Level

<http://www.regonline.com/CalendarNET/EventCalendar.aspx?CustomerId=239299&EventId=112504>



Mississippi Valley Chapter
ASHRAE
Attention: Pat Igou
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