



Mississippi Valley Chapter Newsletter

May 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 24, 2008**
Business Meeting
- **May 22, 2008**
John Deere Training Center Tour
- **June 6, 2008**
Golf Outing

Tour of the John Deere Training Center:

This month our meeting program will be a tour of the John Deere Training Center in Davenport, IA. The Training Center was designed by HOK Architects of St Louis, built in 1981, and retrofit in 2006. The South facing wall is constructed as a "Trombe" solar wall. The retrofit replacement scope included HVAC equipment, lighting, ceilings, and new paint throughout. An LED emergency egress and night lighting system is installed. Thermal sensing air diffusers were used where several rooms are served by 1 heat pump unit. Office areas are provided for training instructors and resource personnel. A cafeteria and common area is provided in the center of the facility. The Center provides training classes for John Deere service technicians in class rooms, high bay service area, a high bay studio, dynamometer room, and labs.

May 22, 2008 Program

Location: John Deere Training Center

Program: Business Meeting

Agenda: 4:00-5:00 Tour of the Training Center
5:30-5:45 Meeting at the Steeplegate
5:45-6:45 Dinner at the Steeplegate

Menu: Roasted Pork Loin
Tossed Salad
Seasonal Vegetable
Dessert Special

Cost: Members: Free
Others: \$15

RSVP: [Online](#) or call Simon Possin at 309-793-3568 by Wednesday, May 21, 2008.

Dan Kelley of Ryan & Associates was project manager for the mechanical portions of the retrofit and will be present to explain details of the mechanical systems. Other contractors involved in the retrofit were: Climate River Valley (HVAC), Art-O-Lite Electric, Tri-State Sprinkler, CEC, and C.E. Peterson Sons, Inc. (CM).

The John Deere Training Center address is 8000 Jersey Ridge Road, Davenport, Iowa. It sits along the North side of Interstate 80 and is just East of the John Deere Davenport Works. The Training Center is #11 on the attached map at the end of the newsletter.

Driving Directions:

From Moline, take I74 North, exit at 53rd Street, LEFT on 53rd 1.1 miles, RIGHT in Jersey Ridge Rd 1.9 miles to the John Deere entrance on the LEFT. Proceed to the main entrance at farthest end of the parking lot.

From I80 and US-61: North about 1.1 mi, take the off ramp RIGHT on 210th Street (Mt Joy Road), proceed East 1.2 mi to Jersey Ridge Rd; RIGHT on Jersey Ridge 0.6 mi to the Training Center entrance on the right. Proceed to the main entrance at farthest end of the parking lot.

From Training Center to Steeplegate: LEFT on Jersey Ridge Rd 0.6 mi; LEFT on 210th St 1.2 mi, take ramp to US-61 S 2.1 mi; RIGHT at E 65th St; turn RIGHT on frontage Rd to Steeplegate Inn.

New Publication Provides Energy Efficiency Guidance for Warehouses

ATLANTA – The latest publication in the *Advanced Energy Design Guide* series will help guide the construction of warehouses using off-the-shelf technology that can cut energy use 30 percent or more annually.

The *Advanced Energy Design Guide for Small Warehouses and Self-Storage Buildings*, published by the American Society of Heating, Refrigerating and Air-Conditioning Engineers, gives guidance to architects, engineers and others on building design teams on how to use best design practices to create energy-saving warehouses. Written in partnership with The American Institute of Architects, the Illuminating Engineering Society of North America, the U.S. Green Building Council, and the U.S. Department of Energy, the book is available for free in electronic form at www.ashrae.org/freeaedg. Hard copies are available for purchase in the ASHRAE Bookstore through the same Web page. The Metal Buildings Manufacturers Association (MBMA) contributed to the book's authorship.

The book, intended for use by contractors, designers and owners of small warehouse buildings, covers an integrated design process for delivering energy efficient warehouses as well as sets of prescriptive requirements for efficient warehouses in each climate zone. Case studies of exemplary warehouse designs are also provided, as well as detailed "how-to" design guidance to help guide construction teams. Recommendations cover the subject areas of building envelope, lighting and daylighting, HVAC and service water heating.

The Guide covers warehouses up to 50,000 square feet and self-storage buildings that use unitary heating and air-conditioning equipment. Warehouse and storage buildings represent a significant amount of commercial floorspace in the United States and account for nearly 8 percent of energy use of in commercial buildings.

“The Guide provides a clear, straightforward prescriptive path to meeting the 30% target savings,” says Ron Jarnagin, chair of the committee that wrote the publication. “Recommendations are easy to apply, allowing contractors, consulting engineers, architects, and designers to easily achieve advanced levels of energy savings without having to resort to detailed calculations or analyses.”

The cost of the print version of *Advanced Energy Design Guide for Warehouses and Self-Storage Buildings* is \$59 (\$47 members). To download the free electronic version, please visit www.ashrae.org/freeaedg.

To order a print copy of the book, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit at www.ashrae.org/bookstore.

First LEED® Platinum High-Rise Condominiums

PORTLAND, Ore.—The Casey condominiums, located in Portland, Ore., have been certified LEED® platinum, making the building the first high-rise condominium residence in the country to reach the highest sustainability certification level of the U.S. Green Building Council. The building incorporates sustainable design features including use of low-VOC materials, water-efficient fixtures and appliances, window glazing, an eco-roof, a PV system, and ERVs in each unit. The building is expected to achieve a 52% energy savings compared to a typical code-compliant building.

Data Center Case Studies Focus of ASHRAE Book

ATLANTA – Data centers are becoming increasingly more difficult to adequately cool, due to increased datacom performance that results in increased heat dissipation.

Even though performance has increased at a more rapid rate than power, the power required and the resulting heat dissipated by the datacom equipment is putting a strain on data centers.

Case studies and guidance on cooling data centers is available in a new book from ASHRAE, *High Density Data Centers – Case Studies and Best Practices*.

“In the struggle to improve the thermal management characteristics of data centers, it is important to assess today’s data center designs,” Roger Schmidt said. “This book provides case studies of high density data centers and a range of ventilation schemes that demonstrate how loads can be cooled using a number of different approaches.”

Schmidt is a member of ASHRAE’s technical committee on mission

control facilities, technology spaces and electronic equipment, which wrote the book.

Case studies featured in the book include the National Center for Environmental Prediction, the IBM Test Facility in Poughkeepsie, N.Y., the San Diego Supercomputer Center, the Lawrence Livermore National Lab Data Center, the NYC Financial Services Data Center, the Georgia Institute of Technology Data Center, the Cedars-Sinai Medical Center Data Center and the Hewlett-Packard Richardson Datacool™ Data Center.

The book is part of the ASHRAE Datacom Series, developed to provide a more comprehensive treatment of datacom cooling and related subjects. Other books in the series are ASHRAE's *Design Considerations for Datacom Equipment Centers*, *Best Practices for Datacom Facility Energy Efficiency*, *Thermal Guidelines for Data Processing Environments*, *Liquid Cooling Guidelines for Datacom Equipment Centers*, *Datacom Equipment Power Trends and Cooling Applications*, and *Structural and Vibration Guidelines for Datacom Equipment Centers*.

The cost of *High Density Data Centers – Case Studies and Best Practices* is \$54 (ASHRAE members, \$43). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit at www.ashrae.org/bookstore.

2007/2008 Research Promotion:

The finishing touches are being applied to the Chapter Business Directory. Look for your copy soon!

2008 Elections:

The office of Secretary is still vacant and we are looking for someone to step into that role. Please let any officer know if you are willing to take on this responsibility.

2008 Scholarship:

The deadline for scholarship application has passed. The Student Activities Committee is currently reviewing the applications that have been received. The applicant that is selected will be contacted prior to the May meeting and will be presented his/her award at the meeting.

2008 Golf Outing:

The 2008 ASHRAE Research Golf Outing will be held Friday June 6th at Golfmohr Golf Course in Hampton Illinois. Please mark your calendars and get your group put together. Due to last year's rain out there will be more prizes than past years and maybe a few new wrinkles as well.

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

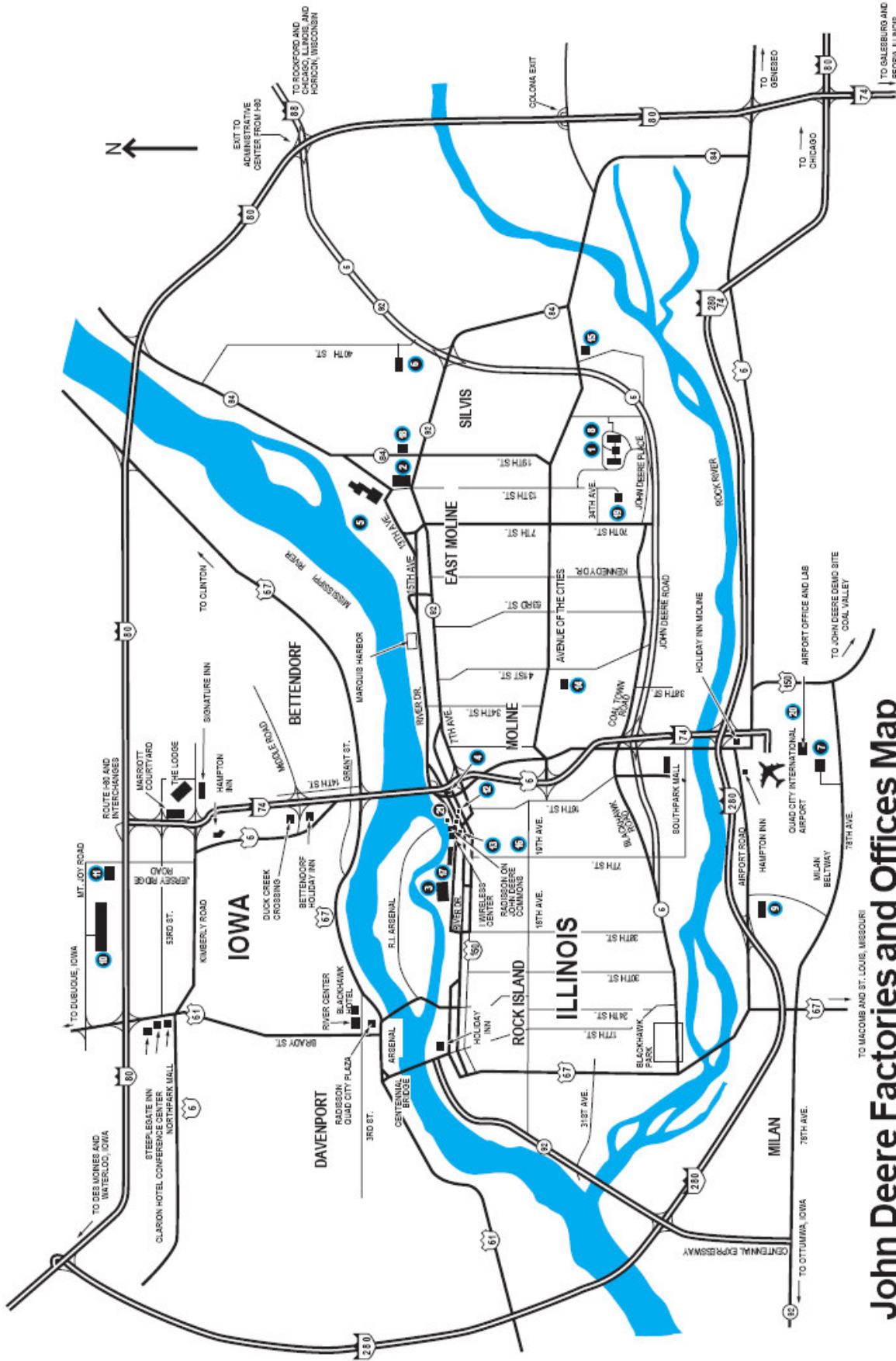
Contact any officer or committee chair to Volunteer!

Check-out the Updated Chapter Website at:

www.mississippivalleyashrae.org



Mississippi Valley Chapter
ASHRAE
Attention: Simon Possin
623 26th Avenue
Rock Island, IL 61201



John Deere Factories and Offices Map

- 1 DEERE & COMPANY WORLD HEADQUARTERS (ONE JOHN DEERE PLACE, MOLINE)
- 2 JOHN DEERE INFORMATION SYSTEMS • DISPLAY SHOP (1400 - 13TH ST., EAST MOLINE)
- 3 JOHN DEERE SEEDING GROUP (501 - RIVER DR., MOLINE)
- 4 COMPUTER INFORMATION SYSTEMS (400 - 19TH ST., MOLINE)
- 5 JOHN DEERE HARVESTOR WORKS (1100 - 13TH AVE., EAST MOLINE)
- 6 JOHN DEERE WORLDWIDE PRODUCT DEVELOPMENT CENTER (1800 168TH ST., EAST MOLINE)
- 7 DEERE & COMPANY AVIATION (6801 74TH AVE., MILAN)
- 8 JOHN DEERE TECHNOLOGY INNOVATION CENTER - MOLINE (ONE JOHN DEERE PLACE, MOLINE)
- 9 JOHN DEERE PARTS DISTRIBUTION CENTER (1600 - 15T AVE., EAST, MILAN)
- 10 JOHN DEERE DAVENPORT WORKS (1175 EAST 90TH ST., DAVENPORT)
- 11 JOHN DEERE TRAINING CENTER (8000 JERSEY RIDGE ROAD, DAVENPORT)
- 12 JOHN DEERE WORLDWIDE CONSTRUCTION & FORESTRY DIVISION (HERITAGE PLACE, 1515 - 5TH AVE., MOLINE)
- 13 JOHN DEERE PAVILION • JOHN DEERE STORE (1300 AND 1400 RIVER DR., MOLINE)
- 14 CROWN CENTER, GLOBAL LEARNING & DEVELOPMENT, HR SHARED SERVICES • JOHN DEERE LEARNING CENTER (3800 AVENUE OF THE CITIES, MOLINE)
- 15 TPC AT DEERE RUN (3100 HEATHER KNOLL, SILVIS)
- 16 DEERE-NIMAN HOUSE (817 - 11TH AVE., MOLINE) • BUTTERWORTH CENTER (1105 - 8TH ST., MOLINE)
- 17 JOHN DEERE CYLINDER DIVISION (909 RIVER DR., MOLINE)
- 18 JOHN DEERE PHOTO STUDIO • JOHN DEERE TECHNICAL INFORMATION AUTHORIZING CENTER (1300 - 19TH ST., SILVIS)
- 19 SOUTHWEST OFFICE BUILDING (3400 - 80TH ST., MOLINE)
- 20 AIRPORT OFFICE AND LAB (6905 74TH AVE., MILAN)
- 21 JOHN DEERE COLLECTORS CENTER (320 16TH ST., MOLINE)

- U.S. HIGHWAYS
- STATE HIGHWAYS
- INTERSTATE HIGHWAYS

Note: The double lines represent four-lane highways and roads.