



Mississippi Valley Chapter Newsletter

September 2004

<http://www.mississippivalleyashrae.org>

Monthly Newsletter

Event Schedule

- **September 28, 2004**
Tour of Figge Art Center
- **October 21, 2004**
Chilled Water Systems
and Pressure
Independent Control
Valves
- **November 18, 2004**
History Night!
The chapter will be 30
years old this Month!
New Refrigerant
Compressors
- **December 7 2004**
Social Lunch
John Deere Classic
- **January 20, 2005**
Building Envelope and
Humidity
- **February 17, 2005**
AHU Designs for
Special Buildings.
- **March 17 2005**
Research Night!
Update on IEC projects
- **April 21, 2005**
Controls Round Table
- **April 28-30, 2005**
CRC Quad Cities!
- **May 19, 2005**
Industrial Indoor Air
Quality
- **June 3, 2005**
Resource Promotion
Golf Outing

“Figge Art Museum Tour”

This month’s meeting will be a joint meeting with ASPE (American Society of Professional Engineers). We will be touring the Figge Art Museum, which is currently under construction.

The Figge Art Museum is truly a world class project. The Museum has been designed by London based architect David Chipperfield Architect (DCA)s and boasts several design features that are unique not only to the Quad Cities but to North America as well. This design and use of unique elements was brought about by a total project team consisting of architects, engineers, and project managers from throughout the world including England, France, China, Germany, and the United States.

Upon first glance of the structure the most noticeable feature of this building is the glass enclosure system. The glass enclosure system was designed and manufactured in Germany. This is the first known installation of this system in the US and second in North America. It consists of 1,800 exterior pieces and 300 interior pieces each approximately 4’x10’ with total installation time to be 240 days. The unique nature of the system has allowed the largest window in the building to be 60’ x 60’ and offers a beautiful view of the river.

The major concern for any museum is the protecting of the Art from natural light, temperature and humidity. An example of these tight control requirements is that the relative humidity must remain at a constant 50% year round with only a 1% margin of error allowed.

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September 28th Program

- Location:** Figge Art Museum
153 N. Harrison Street
Davenport, Iowa
- Program:** “Tour of Figge Art
Museum.”
- Agenda:** 5:30-6:30 Tour
6:30-7:30 Dinner
- Menu:** “Mississippi Dinner
Buffet” @ Rhythm City
Casino’s Blackhawk Hotel
- Cost:** Members: Free
Others: \$15
- RSVP:** [Online](#) or call Gary Lange
@ (319) 362-2760 by
Thursday, September 23,
2004

**Hard Hats and Safety Glasses
Required!!!**

2003-2004 Officers/Board of Governors

President: Jon Bovenkamp
Vice President: Gary Lange
Treasurer: Bruce Britson
Secretary: Open
Member at Large: Paul Parry
Member at Large: Sherm Sweeney

2003-2004 Committee Chairs

CRC Delegate: Gary Lange
CRC Alternate: Bruce Britson
CRC 2005: John Holbert
Sherm Sweeney
Historian: Sherm Sweeney
Membership: Tracy Van Damme
Programs: Gary Lange
Resource Promotion: Mike Taube
Seminar: Bruce Davis
Student Activities: Matt Schneider
TEGA: Open
Webmaster: Eric Granzow

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 Officer positions or committees:

Secretary
CRC
Membership
Student Activities
Resource Promotion
TEGA
Webmaster
History
Contact any officer or committee chair to Volunteer!

Resource Promotion

The chapter Board of Governors would like to invite the following members to our October meeting to be recognized for their Resource Promotion donation for the 2003-2004 campaign. Thank you for your support.

Jim Thompson
Sherm Sweeney
James Conrad
Paul Parry
Eric Granzow
Jon Bovenkamp
Timothy Wray
John Holbert
Michael Taube
Sean Farrell
Northwest Mechanical Incorporated
Midwest Equipment Sales, Inc.

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.

Chapters Regional Conference

Be sure to mark you calendars for April 28th through April 30th as our chapter prepares to host CRC for Region VI. The CRC will be held at the Radisson at John Deere Commons, and the Mark.

The chapter needs help from all of the members to make this a success. Please volunteer to help out our CRC co-chairs John Holbert, and Sherm Sweeney. Only by having help from our chapter members can this be a successful event.

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To attain the tight controls required the mechanical system and specifically the humidity control system was based upon another European design.

Overall project schedule has been a huge issue as the Museum has drywall ceilings throughout. With ceiling heights ranging from 16'-24' and no visible access panels all construction above the ceiling, including sprinkler system, mechanical, electrical, communication etc., must be complete before the ceiling is to begin. Subsequently the flooring and finishes cannot begin until the ceiling is complete. With these constraints, completion of the drywall ceiling system has been much more intense than the other ceiling structures such as a lay-in ceiling.

Considering all of the specialized features within this structure and the public bidding of the project, Russell-Pepper Construction has been able to use many local contractors. Over half of the work has been contracted locally with all firms using local labor to complete work.



Mississippi Valley Chapter
ASHRAE
Attention: Jon Bovenkamp
225 Iowa Ave.
Muscatine, Iowa 52761

Fun Facts about the Figge Arts Center:

- The highest point of the roof is 124-0 above River Drive.
- 1,100 Tons of structural steel.
- 7,600 Yards of concrete.
- The main elevator capacity is 15,000 lbs, with interior dimensions of 10-0 x 14-0.
- One acre of brick pavers.
- Zero concrete masonry units.
- Average of 75 workers per day on site with peaks of 110 -120.

For the tour, parking will not be available on site, please use either parking ramps or the street. We will meet in front of the US Bank on the North side at 5:30. Our tour guides will be Keith Dougherty, Senior Project Manager, and Carsten Frank, Senior Superintendent with Russell-Pepper Construction.

Hard hats and safety glasses are required for this tour.