



INFORMAIRE

JOURNAL OF MADISON, WISCONSIN CHAPTER

AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS

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www.ashraemadison.org

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MARCH MEETING *Refrigeration*

Submitted by: Robb Stone

DATE: MONDAY, March 9th, 2009

LOCATION: Rowland Reading Foundation

6120 University Ave
Middleton, WI 53711

PARKING: Parking is available in Rowland Reading parking lot and with additional parking available at the end of court near apartments.

TOPIC: Project Tour

This program will involve the tour of the newly renovated Rowland Reading Foundation Building. The building was renovated utilizing a variable refrigerant flow/volume system (VRF/VRV). The tour will consist of presentations and tours lead by the building owner, design-build team, and manufacturer's representatives including Pleasant Rowland, General Heating, and Masters Building Solutions.

SPEAKER: Rowland Reading Foundation, Middleton

The Rowland Reading Foundation resides in a newly renovated building located in Middleton, WI. The existing 24,300 square foot building was completely gutted of the existing HVAC systems (and other components) and modified to meet the Owner's project requirements. The facility consists primarily of office space, but also has space dedicated for presentations and large group gatherings. Part of the owner's project requirements included the desire to have a quiet and efficient HVAC system. The limitations of the existing building structure posed a significant challenge to the traditional ducted systems. The VRF system provided a suitable alternative to the traditional system that met the OPR and could be installed within the constraints of the existing building.

(See Meeting on next page)

PRESIDENTS MESSAGE

Submitted By: Tim Meeker

Greetings and welcome to the INFORMAIRE, March addition!

Please mark your calendars for **May 7th thru 9th**. The Iowa Chapter of ASHRAE will be holding the 2009 **Region VI Chapter Regional Conference** in Des Moines. There promises to be some excellent Technical Sessions and Workshops for members and guests to attend. As more information becomes available, we will pass it along.

Robb has put together an exciting program for us this month and Masters Building Solutions has graciously offered to host the event. Please come and learn more about a hot topic in our industry, Variable Refrigerant Flow systems.

Also, our friends in the NE Wisconsin Chapter are having a one day seminar on the "**Design of Ground Source Heat Pumps for Commercial and Institutional Buildings**" on March 17th, 2009 at the St. Norbert College Bemis Center in De Pere, WI. If you are interested, you can register online at www.newwisconsinashrae.org. The registration deadline is **Friday March 13th**.

As always, if you have any questions, comments, ideas or concerns, please don't hesitate to contact myself or any of the Board of Governor's or Committee Chairs. We always look for your input!

Thanks, and I hope to see you at this month's meeting!

Tim Meeker

2008-09 Madison ASHRAE Chapter President

meeker@jdreng.com

(608) 277-1728

MARCH MEETING

Con't

TIME: Due to limitations associated with seating for dinner, the meeting will consist of a two phase approach with the attendees divided into four groups. Two groups will be eating while the other two attend the tour (and vice-versa). The following represents the proposed meeting agenda: *See the following page for details*

- 5:30 Arrival – meet in large conference room
- 5:45 Opening remarks; general business; **Anne Butt** – Director at Rowland Reading will give introduction and provide project background in the large conference room
- 6:00 Group A/B – Move to cafeteria for food
Group C/D – Remain in the large conference room for VRV overview
- 6:20 Group C – Head to mechanical room
Group D – Start the tour of the building along viewing the itouch; branch selector boxes; terminal units, etc.
- 6:40 Group C/D switch
Group A/B – Move to large conference room upon completion of dinner for VRV overview
- 7:00 Group C/D – Move to cafeteria for food
Group A – Head to mechanical room
Group B – Start the tour of the building along viewing the itouch; branch selector boxes; terminal units, etc.
- 7:20 Group A/B switch
- 7:40 Finish and Adjourn

RSVP: Please RSVP (email) to **Robb Stone** at JDR Engineering: stone@jdreng.com. You may also call Robb at (608) 277-1728, ext 101.

Please RSVP by **10:00 AM, Friday, March 6th**

*The cost for the meeting is \$30 for members and non-members, which includes dinner and presentation. The meeting fee will be paid at the door. Please make checks payable to **Madison ASHRAE Chapter***

DINNER: Famous Dave's BBQ

Always a chapter favorite, dinner will buffet style consisting of Famous Dave's BBQ sandwiches and sides.

No worries on whether you are in the first eating group or second. Famous Dave's has agreed to divide the food into two servings to allow equal opportunity to "Pig Out". Soda and water will be furnished.

*The Madison Chapter "No Show" Policy: In an effort to control meeting costs, members who fail to show and fail to change by NOON FRIDAY the week before will be asked to contribute \$30 to recover the meal costs incurred by the Chapter. Checks are to be made out to Madison ASHRAE Chapter and mailed to: **Matt Heil**, c/o Henneman Engineering, 1232 Fourier Drive, Suite 101 Madison, Wisconsin 53717-1960*

MEETING MINUTES

Submitted By: Manus McDevitt

The latest meeting minutes can be found by selecting the following links.

[Madison BOG Minutes 1-12-09](#)

Thanks. *Manus*

TREASURER

Submitted By: Matt Heil

The treasurer reports will be updated next month.

Matt Heil, P.E.
Treasurer
(608) 833-7000

2009 REGION VI CRC

Submitted By: Iowa Chapter

The 2009 REGION VI Chapter Regional Conference will be taking place in Des Moines, IA on May 7th-9th. It is shaping up to be a great conference for technical value as well as ASHRAE related activities. Place it you're your calendar and look for more information for registering.

2009 CRC Conference May 7-9, 2009 Des Moines, IA

The Iowa Chapter would like to invite all Region VI ASHRAE members and their families to the 2009 CRC conference being held on May 7-9, 2009 in Des Moines, Iowa. Des Moines is a diverse, multi-faceted metropolitan area. There is shopping at trendy stores in the East Village, many local wineries, sporting events, and an exciting nightlife-from the arts (the theatre, ballet, symphony, opera) to comedy clubs and from live music to historical places. The conference and hotel accommodations will be held at the historic Hotel Fort

Des Moines where many notables such as Mae West, Richard Nixon, Jack Kennedy, Charles Lindberg, and many others have spent time. The conference will have several tracks for the technical sessions. These promise to be educational for young as well as seasoned engineers.

For More Information go to: www.ashraeiowa.org

**FIELD OF GREEN,
BANKING ON OUR FUTURE**

GAME

Submitted By: Ellen Skorpinski

If you are interested in becoming a LEED AP, I highly recommend that you sign up before March 31, 2009 to take the test. March 31, 2009 will be the last date that candidates will be able to register for the current LEED for New Construction (NC) v2.2 and LEED for Commercial Interiors (CI) v 2.0 LEED Accredited Professional (LEED AP) credentialing exams. As part of the changes to the accreditation process announced at the end of 2008 the LEED NC designation will be replaced with the LEED Building Design and Construction (BD&C) designation and the LEED CI designation will be replaced by LEED Interior Design and Construction (ID&C). These new certification processes will have more credits to memorize; therefore, the test will be a little more difficult to pass. There will also be a three tiered system in place which include:

- **Tier I**
LEED Green Associate: As the first step in the LEED professional's career pathway, the Green Associate credential attests to the candidate's knowledge of good environmental practice and skill, and reflects understanding and support of green design, construction, and operations. There are no specialties within the LEED Green Associate tier.
- **Tier II**
LEED AP+: The LEED AP+ credential signifies an advanced depth of knowledge of green building practices. LEED AP+s will earn their credentials in one (or more) of the following five specialties:
 1. Building Design & Construction (BD&C)
 2. Operations & Maintenance (O&M)
 3. Interior Design & Construction (ID&C)
 4. Homes
 5. Neighborhood Development (ND)
- **Tier III**
LEED AP Fellow: Although the application process is currently under development, this tier will distinguish an elite class of leading professionals. Fellows contribute to the standards of practice and body of knowledge for achieving continuous improvement in the green building field.

For more information, please visit the Green Building Certification Institute web site: <http://www.gbci.org/>

MEMBERSHIP

Submitted By: Dan Bergmann

We would like to congratulate **Rob Shirey, Sharon Bessa Morey, Brian Purdy, Craig Weiss,** and **Bob Williams** as our new ASHRAE members.

As always, we are continuing to update member's information. If your information has changed (for example: emails,

	February 2009
Members	260
Students	31
Delinquency	22

work place, address, phone number, etc.), please either contact us or you can change it online. To change your information online go to www.ashrae.org, go to the "Members Tab" at the top left, click on "Manage Membership", and finally click "Address Change" in the center of the page. This will lead you to the link and you can update your information. Once again, if you send us your updated information, we are happy to take care of this for you, but we ask that you provide us with your member number, as we find that the process is accelerated when dealing with customer service.

Applications for new members can be filled out on line at www.ashrae.org, or I would be happy to email you an application. If you sign up online be sure to select the "Madison" ASHRAE chapter so you are assigned to the correct local chapter. If you know of anyone not receiving the Monthly INFORMAIRE please contact Mark Miller to be placed on the email distribution list.

e-QUEST TRAINING

Submitted By: David Vigliotta

Learn how to evaluate today's building technologies... at the speed of today's design process!

Energy Center University is hosting **eQUEST**: Introduction to Schematic Design, March 24, 2009 and **eQUEST**: Introduction to Detailed Design, March 25, 2009 at the Crowne Plaza Hotel Milwaukee-Wauwatosa in Wauwatosa, WI. The eQUEST energy simulation tool allows its users to perform detailed analysis of state-of-the-art building design technologies using today's most sophisticated building energy use simulation techniques. You don't need extensive experience in the "art" of building performance modeling to effectively use eQUEST. The eQUEST energy simulation tool has different levels of sophistication and functionality, making it useful for "big picture" schematic-level decisions as well as detailed fine tuning of building systems. With eQUEST, you will learn how to provide professional-level results in an affordable level of effort.

The trainings are designed for engineers, architects, other design professionals and anyone wanting a better understanding of how to use eQUEST. The program is presented by **Marlin Addison, M.S.**, Addison and Associates and **Lee DeBaillie, P.E.**, LEED AP, Technical Director at the **Energy Center of Wisconsin**. The registration fee for attending each day of training is \$289, which includes continental breakfast, refreshments, lunch and program materials. Attend both eQUEST trainings for the discounted rate of \$469!

Members of the American Institute of Architects (AIA) will receive 7 learning units for attending each day of training. A block of rooms has been secured at the Crowne Plaza Hotel Milwaukee-Wauwatosa at the special rate of \$129/night. Please make your reservations by calling 414.475.9500 prior to March 1, 2009 and request the Energy Center of

Wisconsin special rate. Please register early as these trainings may sell out. For more information and to register online, please visit www.ecw.org/univeristy.

eQUEST Trainings:

The Quick Energy Simulation Tool Presenting faculty: Marlin Addison, M.S. and Lee DeBaillie, P.E., LEED AP

Introduction to Schematic Design March 24, 2009 | Wauwatosa, WI

Introduction to Detailed Design March 25, 2009 | Wauwatosa, WI

ENGINEERING IMAGE PROBLEM

Submitted By: ASQ Press Release

Engineering Image Problem Could Fuel Shortage ASQ Survey: Career Not on Radar for Kids or Parents

Milwaukee, Wis., Jan. 22, 2009 — When it comes to kids' dream jobs, engineering has its own problem to solve. An overwhelming 85% of kids say that they are not interested in a future engineering career for a variety of reasons, according to recent surveys of youth and adults conducted by Harris Interactive® on behalf of **ASQ (American Society for Quality)**.

Survey results indicate the top reasons why kids may not be interested in pursuing engineering:

Kids don't know much about engineering (44%). Kids prefer a more exciting career than engineering (30%). They don't feel confident enough in their math or science skills (21%) to be good at it— despite the fact that the largest number of kids ranked math (22%) and science (17%) as their favorite subjects.

Findings from the adult survey on this topic show:

Only 20% of parents have encouraged/will encourage their child/children to consider an engineering career.

The vast majority of parents (97%) said they believe that knowledge of math and science will help their children have a successful career.

The ASQ survey among youth ages 8-17 as well as among parents aimed to provide a better understanding about the perceptions of selecting an engineering career in light of a troubling shortage of U.S. engineers, which will reach 70,000 by 2010 based on an estimate by the National Science Foundation.

Actress vs. Engineer?

Other survey findings:

The survey also found the following gender differences in career interests and intent:

More girls say their parents are likely to encourage them to become an actress (21%) than an engineer (10%). Other careers that parents encouraged girls to think about include doctor (33%), lawyer (25%), teacher (31%), veterinarian (23%), nurse (20%) and businessperson (17%).

Boys (24%) are significantly more likely than girls (5%) to say they are interested in an engineering career.

31% of boys vs. 10% of girls say their parents have encouraged them to think about an engineering career.

"It's clear that there is a low level of interest and knowledge about engineering careers for both parents and children," said Maurice Ghysels, chair of ASQ's K-12 Education Advisory Committee. "Educators and engineers need to work more closely together to get students excited about the profession and spotlight interesting role models."

About the Survey

Harris Interactive fielded the online youth survey on behalf of the American Society for Quality between Nov. 20 and Dec. 1, 2008, among 1,277 U.S. youth ages 8-17. Harris fielded a separate online survey between Dec. 15 and Dec. 17, 2008, among 2,196 U.S. adults ages 18 years of age or older, of whom, 584 are parents of children ages 17 and under. These online surveys are not based on probability samples and therefore no estimates of theoretical sampling error can be calculated; a full methodology statement for both studies is available.

ASHRAE ANNOUNCEMENTS

Submitted By: Mark Miller

ASHRAE announcement this past month headlines are listed below. To find our more about the, search them out at www.ASHRAE.org:

- **BACnet Gets Down to Business at ASHRAE Conference**
- **ASHRAE/AIRAH Issue Joint Resolution on Climate Change**
- **ASHRAE, GBI Pledge to Collaborate to Promote Building Sustainability**
- **ASHRAE Publishes Updated Guidance for Buildings in Hot and Humid Climates**
- **Economic Stimulus Bill Reinforces Importance of Energy-Saving Standard 90.1**
- **ASHRAE's new course, Advanced Energy Design for Small Office Buildings**
- **ASHRAE Publishes Load Calculations Manual**
- **ASHRAE '09: Engineering Tomorrow....Today**

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PROGRAM SCHEDULE

	Topic	Location	Speaker (s)	Theme
Sep 8	Underfloor Air Distribution Systems	Quality Inn and Suites Fitchburg	Jack Geortner – Flexsys Underfloor/JCI	
Oct 13	LEED Project Tour	Erdman – One Erdman Place	Mike Meteyer	Student Activities & RP
Nov 10	Humidity Control	Sheraton Madison Hotel	Tom Durkin – Durkin & Villalta Partners Eng	Membership
Dec 9	Focus On Energy – Update 2009	Holiday Inn – West	Gene Curtis – Focus On Energy	Past Presidents
Jan 12	Project Tour	University Square	Rick Gilbertson - Potter Lawson Dave Smith - KJWW	Student Night
Feb 9	Contracting	Nakoma Golf Club	Panel Discussion	Joint w/MAC-MAPC
Mar 9	Variable Refrigerant Flow Systems	Rowland Reading Foundation	Rowland Reading Foundation	Refrigeration
Apr 13	Wind Turbines	Quality Inn and Suites Fitchburg		
May 11				
Jun 8	Golf Outing	Stoughton Country Club		Social

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(Address Correction Requested)

