



INFORMAIRE

JOURNAL OF MADISON, WISCONSIN CHAPTER

AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS

VOLUME XXXX NO. 7

March 2008

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www.ashraemadison.org

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MARCH MEETING *Refrigeration Night*

Submitted by: Tim Meeker

DATE: MONDAY, March 10th, 2008

LOCATION: Masters Building Solutions
908 Stewart Street
Madison, WI 53713

TIME: Social Gathering 5:00 to 6:00 p.m.
Dinner and Discussions 6:00 to 7:00 p.m.
Program Presentation 7:00 to 8:00 p.m.

TOPIC: The Art of Refrigeration

A review of the refrigeration system and how it functions. We will discuss the engineered components of the refrigeration system, their interaction within the process, and their limitations. Systems operating costs, areas of potential cost savings and design costs will also be covered.

We will also be able to view the operating principals and components of a variable volume refrigerant system.

SPEAKER: Tom Riley, PE- Prior Engineering Services

Tom is a Professional Engineer with twenty-six years experience in the design, installation and troubleshooting of refrigeration and heat transfer systems. He is a full member of the International Institute of Ammonia Refrigeration (IIAR), IIAR piping committee, and Refrigeration Engineers & Technicians Association. (RETA) and has been employed as an end user, contractor and consultant. He has worked with utilities and industrial sectors and designed industrial refrigeration systems for processing plants including orange juice, pork, beef, poultry, cheese, bakery, candy, petrochemical and pharmaceutical facilities. These systems include: primary single, single economized and two stage NH3 systems; primary split freon units; secondary water, propylene glycol, and calcium chloride systems ranging in size from under 100 Tons to over 12,000 Tons.

RSVP: Please RSVP (email) to Tim Meeker at JDR Engineering: meekeer@jdreng.com. You can also call at (608) 277-1728, ext 105.

Please RSVP no later than **Noon, Friday, March 5th.**

(See meeting info on next page)

PRESIDENTS MESSAGE

Submitted By: Gene Nelson

Welcome to "Refrigeration Night". We should all look forward to a great presentation from our own **Tom Riley**. Other upcoming events include our own CTTC's committee's legal seminar on March 20th and Society's Satellite Broadcast on **April 16th**. Please look for information in this issue of the INFORMAIRE. Our chapter will be sponsoring several sites to view the Satellite Broadcast and will offer lunch and group discussion of the issues. Look for details in the next INFORMAIRE.

Chad Faber from the R-P committee has received some good news in that we have successfully petitioned the State for our license to continue our popular **R-P raffles** at the monthly meetings. We hope that you continue support ASHRAE Research through this raffle and direct contributions.

The **CRC** meeting is coming up on **May 15-17th**. Our **CRC Planning committee** is looking for any ideas you have and wish to share with other chapters in our region. Also if you are interested in volunteering at the regional level, let us know. ASHRAE is a volunteer organization. It does not function well unless talented members such as yourself, step forward. Please consider this opportunity to expand your knowledge and enhance your career.

I would like to close by extending a big thanks to **Mark Miller** for all his efforts in publishing this year's product directory and to **Brian Basken** for planning the legal seminar. We are blessed to have such talented people donate their time for our benefit. Please tell them "thank you" next time you see them.

Hope to see you March 10th.

Gene Nelson

2007-08 Madison ASHRAE Chapter President

gcnelson@aeieng.com

236-1232

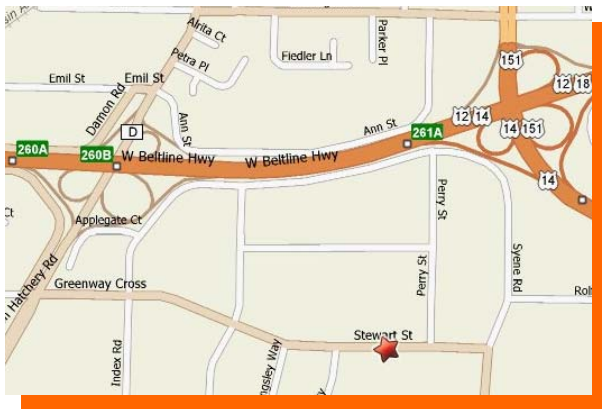
MARCH MEETING

Con't

Dinner: Buffet style dinner catered by Crandall's, including: Champagne Chicken, Beef Stroganoff, Garden and Pasta Salads.
Refreshments include beer, coffee, and soda.

Current local Members and Students may attend at no cost. The cost for non-members and delinquent paying members is \$30 for the dinner, tour and presentation. This can be paid at the door. Please make checks payable to Madison ASHRAE Chapter.

The Madison Chapter "No Show" Policy: In an effort to control meeting costs, members who fail to show and fail to chance 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: Robb Stone, c/o JDR Engineering, 2939 S. Fish Hatchery Road, Suite 100, Madison, WI 53711.



MEETING MINUTES

Submitted By: Matt Heil

Attached are the links to the January meeting, January Board of Governors and the Treasurer's reports for February.

- [Madison General Meeting Minutes 1-14-08](#)
- [Madison BOG Meeting Minutes 1-16-08](#)
- [Madison Treasurer Budget 2008-Feb](#)
- [Madison Treasurer Report 2008-1](#)

If you have trouble with these links, contact Mark Miller (mark.miller@mail.ashrae.org) or you may contact me at mheil@henneman.com. Thank you.



SATELLITE BROADCAST

Submitted By: Brian Basken

On **April 16, 2008**, ASHRAE's Chapter Technology Transfer Committee (CTTC) will present a satellite broadcast and simultaneous webcast on **"Integrated Building Design: Bringing the Pieces Together to Unleash the Power of Teamwork."**

Online registration for site coordinators and webcast viewers begins March 1 at www.ashrae.org/ibdbroadcast.

Several local organizations have graciously volunteered to host this event. If you'd like to join fellow ASHRAE members for lunch, the broadcast, and discussions, please contact one of the following organizations:

Planning Design Build, Inc.
901 Demming Way, Suite 102
Madison, WI 53717
Dan Dehnert
Dan.Dehnert@planningdesignbuild.com

Madison Trane
4801 Voges Road, Suite A
Madison, WI 53718
Kelly Wimann
kawimann@trane.com

Masters Building Solutions
908 Stewart Street
Madison, WI 53713
Mike Gall
MGall@mastershvac.com

PRODUCT DIRECTORY

Submitted By: Mark Miller

You should have received your 2007-08 copy of the Madison Chapter of ASHRAE **Product Directory**. With the help of the BOG and their editing, it was finally sent to all our ASHRAE members this week. It took a little longer to bring to print, however I am pleased with the results and very grateful to the contributors for their participation in the Chapter publication. Please acknowledge them for their contribution to the Madison Chapter of ASHRAE when the opportunity for you to do so arises.

If you have not received your copy and believe you should have, please let me know and I will look into it. Additional copies were printed and are available for a mere \$2.00 each. Contact me at mark.miller@mail.ashrae.org or (608) 835-1944 for assistance.

IOWA SEMINAR

Submitted By: Brian Basken

The Lost Art of Steam Heating

The Iowa Chapter of ASHRAE is hosting Dan Holohan, and his presentation The Lost Art of Steam Heating, on **March 11, 2008** in Des Moines, IA. A flier is attached regarding the event. For more information, please contact Jake Newman jnewman@shive-hattery.com.

CTTC

Submitted By: Brian Basken

Advanced Energy Design Guides Free Download

To encourage energy efficient design in a range of building types, ASHRAE and its partnering organizations are making available for free the Advanced Energy Design Guide series.

The guides provide a sensible, hands-on approach to design through use of products that are practical and commercially available as "off-the-shelf" technology. They offer designers and contractors the tools needed for achieving a 30% energy savings compared to buildings that meet the minimum energy efficiency requirements of Standard 90.1-1999.

Electronic versions of the newest book in the series, Advanced Energy Design Guides for K-12 School Buildings, as well as the existing guides on small office and small retail buildings are available for free download at www.ashrae.org/freeaedg. Future guides, including one focused on warehouses to be published this spring, will be available for free electronic download as well.

COOLING WATER SEMINAR

Submitted By: Mark Miller

Plant Facilities and Maintenance Association has invited you to a Cooling Water Management Seminar on March 27th, 2008. The objective is to give you an in-depth experience on the proper methods to design and maintain effective cooling water treatment management program.

A flier is attached, otherwise contact Peter Zielski at pzielski@uswaterservice.com or cell (608) 215-0305.

GAME

Submitted By: Sharon Gould

Sharon Gould, ASHRAE member, recently sat down with a wind power engineer to get the scoop on wind power in Wisconsin. **Alex DePillis** of EcoEnergy Wind, LLC, based in Madison, fielded questions.

Sharon: Our ASHRAE members are involved with new buildings and new technologies all the time. What's new with wind power?

Alex: Wind power technology has matured considerably in the last ten years, and utility-scale wind turbines are very reliable. Several large arrays of wind turbines are being installed in Dodge and Fond du Lac Counties. There's a list and map at www.renewwisconsin.org

Our company has a bunch of projects in development, including a small local project, in the Town of Springfield, Dane County.

Sharon: What about wind technology that could go on a building?

Alex: Many have tried, many have claimed it could be done. Wind turbines on buildings either don't produce much energy, or shake the building. There have been a number of cases of severe damage. Having said that, I have my eye on one promising wind turbine for buildings, from the people who pioneered human-powered flight and solar-power drone aircraft.

Sharon: Isn't wind considerably more costly than conventional power, and a lot more expensive than building efficient buildings in the first place?

Alex: The new large wind projects are being built with long-term, fixed-price contracts for energy in the 6-7 cents per kWh range, competitive with 2007 market prices in Wisconsin. The utility likes the stability of wind power contracts, plus they would likely get the carbon credits, emissions credits and renewable energy credits to boot! Given the rapid job growth in Wisconsin due to the wind industry, the Wisconsin taxpayer is much better off with an electricity source made with Wisconsin-produced components, and installed by Wisconsin companies using Wisconsin's own free fuel: wind.

Sharon: OK, what's the downside?

Alex: I've worked in renewable energy for about 15 years. Wind power is ready for prime time. That said, as a wind development company, one of our challenges is navigating through the permit process. Every county, or every town, is different. As the new projects are built and we have more examples of wind power on the landscape, more and more people will embrace wind power. Europe provides an example of wind power becoming a significant part of the energy mix, and being widely accepted as a premium source of clean energy.

Here is a project that has used wind as a power source:
http://www.flickr.com/photos/obscure_persona/2139274930/

MADISON ASHRAE CONTACTS

OFFICERS:

PRESIDENT: Gene Nelson
PRESIDENT-ELECT: Tim Meeker
TREASURER: Robb Stone
SECRETARY: Matt Heil
PAST PRESIDENT: Chad Faber
BOARD OF GOVERNORS: Mike Gall
Manus McDevitt

COMMITTEES:

CRC DELEGATE: Chad Faber
CRC ALTERNATE: Gene Nelson
CTTC: Brian Basken
PROGRAM: Tim Meeker
GAME: Sharon Gould
REFRIGERATION: Tom Riley
GOLF: Michel Robert
Doug Bergmann
HISTORIAN: Fran Scholl
MEMBERSHIP: Dan Bergmann
NEWSLETTER: Mark Miller
RESEARCH PROMOTION: Chad Faber
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STUDENT ACTIVITIES: Wayne Prior
WEBMASTER: Zach Obert

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PROGRAM SCHEDULE

	Topic	Location	Speaker (s)	Theme
Sep 10	USGBA and LEED Certified Construction	WECC Headquarters	Zack Obert Chuck Sasso	
Oct 8	ASHRAE Research and UW Madison	Best Western InnTowner	Dr. Shedd	Student Activities & RP
Nov 12	Managing Your Energy – A Sustainable Activity	Coliseum Bar	Dick Pearson	Membership
Dec 3	State of Wisconsin Building Code Update	Quality Inn & Suites	Randy Dahman	Past Presidents
Jan 14	Submicron Water Filtration for HVAC Applications	Coliseum Bar	John Menz	
Feb 11	Round Table Discussion	Nakoma Country Club	Joint Meeting with Madison Area Cont Assc.	Membership Promotion
Mar 10	The Art of Refrigeration	Master Building Solutions	Tom Riley	Refrigeration Night
Apr 14				
May 12				
Jun 8	Golf Outing	Stoughton Country Club		Social

ASHRAE Madison Chapter
 c/o Newsletter Editor
 124 Harvest Circle
 Oregon, WI 53575

(Address Correction Requested)

