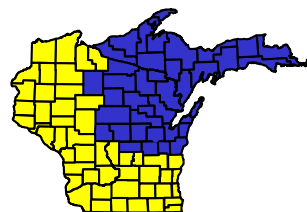




Northeast Wisconsin Chapter #107 October 2010



Chapter BOG Officers

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Chapter Committee Chairs

Chapter Programs

John Schuh

History Chair

Membership Promotion

Joe Dettlaff

Research Promotion

Tilak Andhole

Student Activities

TEGA

Dale Pearson

Refrigeration

Dave Schaefer

Homepage Editor

Gordy Jacobs

Other BOG

Steve Marthaler
David Carter
Matt Veriha
Tina Brueckner

***Note; You do not need to be a BOG member to participate as a chapter committee chair

President's Message

Last month's Chapter meeting was held at the Hilton Garden in Kimberly, WI. I would like to thank Mike Dovich from DriSteem for a very good and informative presentation on Building Humidification.

I attended the Chapter Regional Conference (CRC) for our region last May and the regional treasurer stressed the importance of remaining current on ASHRAE Membership dues. If you aren't a current ASHRAE member or aren't current with your membership dues, we encourage you to become a member and pay your membership fees. This will not only benefit ASHRAE, but also will benefit you. To learn more about becoming an ASHRAE member or renewing your membership, please visit <http://www.ashrae.org/members/page/589>.

If you look to left you will notice that there are still committee chairs that need to be filled within our chapter. If you would like the opportunity to serve on a committee feel free to contact any of your Chapter officers and ask how you can "get involved".

Recall that we will continue again this year to implement a one-time pre-payment for all 6 monthly meeting seminars in advance for \$70. If chapter members elect to use this option it will save chapter members \$20 for the year if they attend all six monthly meetings and \$5 if they attend five of the six scheduled monthly meetings. This pre-payment option does not include the annual holiday dinner in December or the CRC in spring 2011. So, there are still savings available if you choose this payment option at the second meeting even if you did not attend the first meeting.

The meeting dates, locations, and subjects of the monthly seminars are:



Thurs Sept. 16, 2010	Hilton Garden, Kimberly	Building Humidification
October 12, 2010	St. Mary's Hospital, Green Bay	Tour – Heat Recovery Chillers
November 9, 2010	Liberty Hall, Kimberly	HVAC Engineering Basics
December tbd	location tbd	Holiday Dinner
January 11, 2011	Swan Club, DePere	System Effects
February 8, 2011	Liberty Hall, Green Bay	Testing and Balancing
March 8, 2011	Swan Club, DePere	Equipment Vibration Analysis
April 14-16, 2011	KI Convention Center, Green Bay	CRC
May tbd	Fox Valley Golf Club	Annual Golf Outing

John Schuh
President, NE W ASHRAE Chapter

October Meeting

October Meeting Topic:

St. Mary's Tour

Presenter:

Dean M. Kroll - Director of Plant Operations
BSA – Matt Veriha

Date: *Tuesday Oct 12, 2010*

Time: *5:30 p.m.*

Tour begins at 5:30 and we will go to dinner afterward.

Location: St. Mary's Hospital, Green Bay
Address is 1726 Shawano Ave in Green Bay, WI 54303. Plan on meeting at main building entrance. Driving directions and campus map can be found at: <http://stmgb.org/Scripts/pageview.asp?id=46>

Cost: ***\$15.00 for Members and Non Members***
Students free

RSVP REQUIRED:
Please RSVP by using on-line registration at www.newisconsinashrae.org or to Ryan Macario to attend.
Email: Ryan.J.Macario@jci.com

St. Mary's Hospital

- Tour of St. Mary's Hospital Facility:
- Snowmelt System using "waste" heat from chillers
 - In-floor heating and cooling in atrium
 - Recent overhaul of chilled water piping
 - City water backup cooling
 - White noise generators
 - Green Guide Building for Healthcare
 - Green Roof

St. Mary's hospital utilizes 100 nominal tons of Dedicated Heat Recovery chillers. These machines are tied into the building heating loop and provide up to 130 degree F hot water leaving the "condenser" side of the units. The chillers produce the heat at a coefficient of performance (COP) of 3.9 vs a hot water boiler which has a COP of roughly 0.9. So, in comparison, the chillers can provide heat more efficiently and more cost effectively than burning natural gas for heat. When you factor in average relative costs of natural gas vs electricity, the chillers produce the same amount of heat for approx. half the cost of burning gas.

The "evaporator" side of the chillers are tied into the building chilled water loop. The heat that the chillers provide on the condenser side is actually pulled from the chilled water loop. In other words, the chillers are providing free chilled water cooling on the evaporator side in addition to the highly efficient heating. The energy savings from this system are significant especially for applications requiring simultaneous heating and cooling. In the case of St. Mary's, they have a continuous chilled water load independent of ambient temp due to computer room loads, MRI machines, etc.



October Meeting Agenda:

- Tour – St. Mary's Hosp.
- Brief Business Meeting
 1. Chapter Business
 - a. Chapter Activities
 - b. CRC
 - c. Future Meeting Plans
 2. Treasurer's Report
 3. Adjournment
- Dinner off-site

From ASHRAE Society

Standard 90.1 Featured in ASHRAE Fall Educational Courses

ATLANTA – Two new courses related to Standard 90.1 are part of the 12 online professional development courses being offered this fall by ASHRAE through the ASHRAE Learning Institute (ALI). ALI courses provide professional development through in-depth information that is timely, practical and advanced beyond a fundamental level. The online courses allow attendees to log in to learn from anywhere with an Internet connection. Course participants earn three professional development hours, .3 continuing education units, or three American Institute of Architects learning units for each seminar completed. Courses are instructor-led, drawing upon professional knowledge of leading practitioners.

The courses are:

- *Complying with Requirements of Standard 62.1-2010, Ventilation for Acceptable Indoor Air Quality*, Oct. 6
- *The Basics of Panel Heating and Cooling*, Oct. 13
- *Complying with Standard 90.1-2010: HVAC/Mechanical (New)* – two dates – Oct. 18 and 25
- *Complying with Standard 90.1-2010: Envelope/Lighting (New)*, Oct. 20
- *The Commissioning Process and Guideline 0, The Commissioning Process (co-sponsored with Building Commissioning Authority, Illuminating Engineering Society of North America and National Environmental Balancing Bureau)*, Oct. 27
- *Engineering for Sustainability: Understanding Air-to-Air Energy Recovery Technologies and Applications*, Nov. 1
- *Introduction to Cleanrooms*, Nov. 3
- *Understanding and Designing Dedicated Outside Air Systems*, Nov. 10

The cost of each course is \$224 (\$164, ASHRAE members). Site licenses are available to organizations that will be having five or more seminar participants. For more information, e-mail edu@ashrae.org or call 678-539-1146. To register, visit www.ashrae.org/onlinecourses.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education



ASHRAE, NEMA Partner on Standard to Create Facility Smart Grid Model

ATLANTA – We may not be traveling in flying cars or have talking robot maids as shown in the television cartoon “The Jetsons,” but homes, commercial and institutional buildings and industrial facilities are about to get a lot “smarter” when it comes to electrical use.

Under a national Smart Grid effort, ASHRAE and the National Electrical Manufacturers Association (NEMA) are jointly developing a standard that would provide a common basis for electrical energy consumers to describe, manage and communicate about electrical energy consumptions and forecasts.

A kickoff meeting to begin work on the proposed standard is taking place Aug. 30-31 at ASHRAE Headquarters in Atlanta.

ASHRAE/NEMA Standard 201P, *Facility Smart Grid Information Model*, will define an object-oriented information model to enable appliances and control systems in homes, buildings and industrial facilities to manage electrical loads and generation sources in response to communication with a “smart” electrical grid and to communicate information about those electrical loads to utility and other electrical service providers.

“Smart grids lead to smart meters lead to smart systems,” ASHRAE President Lynn G. Bellenger, P.E., said. “As the smart grid adjusts to suit load distribution and maintain power quality and reliability, one of the steps will be to communicate with building metering systems which, in turn, will communicate with building systems and equipment. This ties into demand response control to reduce peak demand. One day in the future, we likely will have real-time pricing with dramatic differences in power costs dependent upon the time of day or grid load.”

“NEMA and the members of their smart grid and high-performance buildings councils see the creation of this standard as a strategic element in driving development of a nation-wide smart electrical grid while increasing energy efficiency, occupant productivity and cost-effectiveness in safe secure buildings,” Jim Lewis, manager, High Performance Buildings, NEMA, said.

The standard is part of ASHRAE’s supporting efforts for the Smart Grid Interoperability Panel, a public-private partnership initiated by the National Institute of Standards and Technology to speed development of interoperability and cyber security standards for a nationwide smart electric power grid.

The proposed ASHRAE/NEMA standard will coordinate with work by the North American Energy Standards Board to develop a basic energy usage data model standard and create a facilities data model that provides additional energy usage data elements for commercial and industrial buildings. This includes lighting, heating, HVAC&R and other electrical loads.

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September General Meeting

- Location – Hilton Garden Inn, Kimberly, WI
- Start – 11:30 AM; Technical presentation started at 11:50 AM
- Topic: Building Humidification
- Speaker – Mike Dovich – Dri Steem
Mike provided an overview of various humidification systems and proper engineering application.
- Technical presentation ended at 12:45 PM
- Lunch at 12:45 PM
- Brief NE Wisconsin Ashrae Chapter Business Meeting starting at 12:45 PM conducted by John Schuh.
John noted next months meeting . The upcoming CRC was announced to our members and we discussed the format and benefits of attending the event. The BOG held a CRC planning meeting after the general meeting.
 - Treasurer’s Report read by Matt Veriha

Become an ASHRAE volunteer

Volunteering within ASHRAE provides you with a single resource for keeping up with technical advances in the industry. By volunteering, you gain direct access to new technology, technical information available that is universally recognized as authoritative and reliable and you influence the direction of HVAC&R technology.

Volunteering also provides unique opportunities to develop communication, management and leadership skills. Because ASHRAE is a volunteer-driven organization, you cannot turn to a better source for human resource development. ASHRAE offers countless opportunities for developing potential through volunteer work on a committee or at the chapter level. Benefits of volunteering include:

- Strengthening leadership skills
- Improving technical skills and the ability to work on technical issues
- Networking
- Accessibility to resources
- Self-development and sharing of ideas

How strong is the ASHRAE volunteer network? ASHRAE has a membership of some 50,000 people from 137 countries around the world. Of those members, approximately 7,500 are active volunteers. About 2,500 Society-level volunteers serve on the Board of Directors, councils, standing committees, technical committees, standard project committees, etc., and an additional 5,000 or so serve in the regional and chapter structures. Assuming (conservatively) that each volunteer contributes an average of two hours a week, that would be 100 hours a year. Then, of course, 100 hours a year times the 7,500 volunteers gives us 750,000 person hours a year volunteer time. At a time value of \$100 per hour, that’s an annual value of \$75 million.

Clearly, ASHRAE depends on its volunteers for its continued success in advancing HVAC&R to serve humanity and promote a sustainable world.

Volunteer for your Chapter

With more than [170 chapters](#) around the world, volunteering at the chapter level is one of the easiest ways to take part in ASHRAE. Volunteering at the chapter level helps you develop a better understanding



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of how the Society functions and how to receive the most benefit from your membership while contributing to the growth of ASHRAE. For more information on how to volunteer at the chapter level, contact Steve Marthaler at 920-739-6885, or any Chapter Officer.

RSVP

St. Mary's Hospital Tour

To finalize meeting arrangements and lunch we need your RSVP by 12:00 (noon) on Monday, Oct 11, 2010.

Please register via e-mail to Ryan.J.Macario@jci.com or on-line. However, you can fax if necessary.

Use the response form below if you wish.

Fax Response Form To:

Ryan Macario
Johnson Controls
Tel: 920-831-3821
Fax: 920-831-3801

Will attend the October meeting at St. Mary's in Green Bay.

Name: _____

Company: _____

Number Attending: _____

Will not attend the October meeting but note the following: mailing list additions or corrections, comments on chapter operations, etc.

E-mail Address: _____

Comments:



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Meeting Notes St. Mary's Tour

Sponsored by: ASHRAE Northeast Wisconsin Chapter

Location: St. Mary's Hospital – Green Bay

Date: October 12th