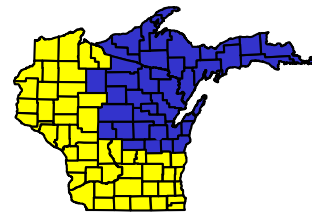




Northeast Wisconsin Chapter #107 November 2010



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 a tour of St. Mary's Hospital in Green Bay. I would like to thank Matt Veriha from BSA for scheduling and facilitating the tour. We had a nice turnout and the tour was very informative.

Please note the upcoming 2011 ASHRAE Winter Conference which takes place January 29 – Feb 2nd, 2011 at the Las Vegas Hilton. The theme of the conference is "A Safe Bet: Zero-Energy Design". The technical program features over 90 programs and 300 speakers addressing the efficient use of energy in new and existing buildings, refrigeration updates, special applications such as data centers and labs, and the cost of zero-energy design. There will be a course on building energy modeling that focuses on HVAC&R systems and changes in the 2010 version of Standards 62.1 and 90.1. Six professional development seminars and 14 short courses are also offered. In addition, the International Air-Conditioning, Heating, Refrigerating (AHR) Expo will be held concurrently with the Winter Conference a short distance away from the Hilton.

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".

We also still have much work to do in planning our upcoming Spring CRC. If you have the opportunity to get involved and help out, please just stay after one of our general meetings to attend a CRC planning meeting.

John Schuh
President, NE W ASHRAE Chapter



November Meeting

November Meeting Topic:

HVAC Engineering Basics

Presenter:

Joe Dettlaff, P.E.

Date: *Tuesday Nov 9, 2010*

Time: *11:30 p.m.*

Registration begins at 11:15 a.m. and we will have the presentation starting at 11:30, with lunch and a business meeting after the presentation.

Location: **Liberty Hall**
Kimberly, WI

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

RSVP REQUIRED:

Please RSVP via e-mail to Ryan Macario to attend.

Email: Ryan.J.Macario@jci.com

HVAC Engineering Basics

Joe Dettlaff will provide basic building design/calculation information. He will take an example building and show how to navigate through load calculation and system considerations to selecting and sizing equipment (boilers, AHU's, VAV boxes, chillers, etc).

Bio:

-Graduated from MSOE 1984

-Registered PE in Wisc, Mich and ILL

-Received the Excellence in Engineering from the DSF/Governor two times (UWO Halsey Hall and UW Madison Engineering Building)

-Received the special recognition award from the DSF/Governor for the camp Randall project.

-26 years at BSA

-2003 became President of BSA

-Registered energy star engineer

-Past ASHRAE president

November Meeting Agenda:

- Presentation – HVAC Engineering Basics
- Brief Business Meeting
 1. Chapter Business
 - a. Chapter Activities
 - b. CRC
 - c. Winter Conference
 - d. Future Meeting Plans
 2. Treasurer's Report
 3. Adjournment



From ASHRAE Society

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.

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.



October General Meeting

- Location – St. Mary’s Hospital; Green Bay, WI
- Start – 5:30 pm
- Topic: Facility tour
- Speaker – Matt Veriha – BSA
Building Features/Overview
 - 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
- Tour ended at 6:45 PM
- Dinner afterward at local restaurant
No business meeting or treasurers report due to tour

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 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

HVAC Engineering Basics

To finalize meeting arrangements and lunch we need your RSVP by 12:00 (noon) on Monday, Nov 8, 2010.

Please register via e-mail to Ryan.J.Macario@jci.com.
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 November meeting at Liberty Hall.

Name: _____

Company: _____

Number Attending: _____

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

E-mail Address: _____

Comments:



American Society of Heating, Refrigerating, and Air Conditioning Engineers, Inc.

Meeting Notes HVAC Engineering Basics

Sponsored by: ASHRAE Northeast Wisconsin Chapter
Location: Liberty Hall – Kimberly, WI
Date: November 9th