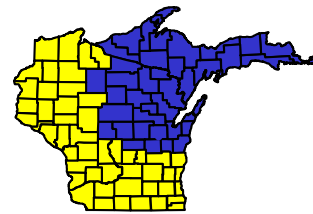




Northeast Wisconsin Chapter #107 September 2010



Chapter BOG Officers

President

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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

I would like to welcome everyone to the 2010/11 year. As we prepare to kick off the new ASHRAE year, I would like to take this opportunity to reflect on this past year. The Board of Governors, led by past President Joe Dettlaff, had put together a successful and informative series of monthly meetings focused around our "Sustaining our Future by Rebuilding our Past" theme:

- Leed v3
- Hilti Firestopping
- Focus on Energy Retro-commissioning
- Lab Exhaust Systems
- Building Information Systems
- Design, Applications, and Maintenance of Pumps
- Riverside Medical Tour

At the Chapters Regional Conference (CRC) held in Milwaukee, WI in spring 2010, the main point of discussion was how to increase attendance at the monthly chapter meetings and the difficulty in attracting members to serve on committees.

Other big news this year is the upcoming CRC conference that our chapter will be hosting on April 14,15, & 16, 2011 in Green Bay. Please mark this on your calendar and plan to attend. There will be several informative technical track seminars on April 15th and many fun social events as well. Our local chapter relies heavily on donations to fund this 3-day event. We will be sending out information on how to help sponsor the event and donating companies will be given recognition on CRC media including mailings, schedules, websites, etc. Please support ASHRAE if you can.

I would like to thank Tina Brueckner for volunteering for her role as a Regional Vice Chair (RVC) for our region. She is putting much time and effort into that position and helps our local Northeast Wisconsin Chapter greatly by being an information conduit between NEW and the region. Her role is even more important this year as our chapter looks forward to hosting the spring CRC.



I would also like to thank Steve Marthaler for accepting the role of CRC chairman for this year. Steve was heavily involved in the last Northeast Wisconsin CRC that our chapter hosted back in 2000. His expertise and efforts are much appreciated. The entire Board of Governors has been putting in extra volunteer time and effort to plan the CRC and I thank them for their contribution as well. We are looking for additional CRC volunteers for planning and to actually work the event so please contact myself or Steve if you are willing to help.

Our chapter continues to have success with online registration for our chapter meetings. Over 95% of meeting attendees have used this tool for our chapter meeting registration the past couple of years. One notable change this year...we will be discontinuing the Google online credit card payment option for chapter meetings. The service costs our chapter additional fees and the benefit of the service is minimal for our relatively small chapter. Registration will still occur online or via e-mail to ryan.j.macario@jci.com, but payment (cash or check) will be accepted at the door.

Our format for monthly meetings will again alternate between Kimberly and Green Bay/DePere. Our "home" site in Kimberly will be Liberty Hall as it has been in the past. However, due to a scheduling conflict, our very first meeting on Thursday Sept. 16th will occur at Hilton Garden in Kimberly which is essentially in the parking lot of Liberty Hall. Also, there will be a new DePere venue this year. That location will be the Swan Club at Legends. The address is 875 Heritage Rd in Depere, WI 54115.

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. 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	Holliday 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

If you are interested in prepaying for all of these seminars in advance for a one-time fee of \$70.00, please send an e-mail to Matt Veriha at Mveriha@bsagb.com and let him know that you want to pre-pay for the year. You can pay the \$70 fee at the first or second meeting.

We are anticipating another great year as we focus on this year's theme "Modeling for a Sustainable Future". Your Board of Governors (BOG) met a number of times over the summer to prepare for the upcoming year and have an exciting list of monthly topics planned.

We are in need of volunteers to help support our chapter level committee chairs. As you can see from the list of committee chairs, we have three open chapter level committee chairs. If you're interested in becoming an active member of the NE W Chapter of ASHRAE and would like to become a future officer or would like to fill a chapter level committee chair, refer to "Become an ASHRAE Volunteer" page in this Newsletter and feel free to contact any of your Chapter Officers or Board of Governors and ask how you can "Get involved".



John A. Schuh --- President, NE W ASHRAE Chapter

September Meeting

September Meeting Topic:

Building Humidification

Presenter: Mike Dovich

DriSteem

Date: *Thursday Sept 16, 2010*

Time: *11:30 a.m. – 1:00 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: ***Hilton Garden**
Kimberly, WI*

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

RSVP REQUIRED:

Please RSVP by using on-line registration at 4Hwww.newisconsinashrae.org or to Ryan Macario to attend.

Email: 5HRyan.J.Macario@jci.com

Mike Dovich

DriSteem

Mike is a 1988 Graduate of Dunwoody Institute with a Degree in HVAC Design and Technology. He has been with the DriSteem Humidifier Company for 19 years.

Mike's presentation will be an overview of applications in various industries. He will discuss the methods and technologies available for humidification and proper application of those technologies. The presentation will also discuss water types and their effect on humidification along with addressing economizer sizing and complete system sizing.

September Meeting Agenda:

- Presentation – Building Humidification
- Lunch
- Business Meeting
 1. Introductions
 2. Chapter Business
 - a. Chapter Activities
 - b. CRC
 - c. Future Meeting Plans
 3. Minutes
 4. Treasurer's Report
 5. Adjournment



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:

- *Understanding Standard 189.1 for High-Performance Green Buildings*, Sept. 22
- *Determining Energy Savings from Energy-Efficient Projects: Applying IPMVP and Guideline 14 to performance Contracting and LEED*, Sept. 27
- *Energy Management in New and Existing Buildings*, Sept. 29
- *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



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

ASHRAE's 2011 Annual Conference Seeks Papers on Alternative Technologies, Engineering Tools, Net-Zero Buildings

ATLANTA— Papers addressing advances in alternative technologies and net-zero buildings, as well as HVAC&R fundamentals and commissioning are being sought for ASHRAE's 2011 Annual Conference in Montreal, Quebec, Canada.

The deadline for paper submissions is Sept. 17, 2010. For complete information on tracks, contacts and submittal requirements, visit www.ashrae.org/montreal.

The 2011 Annual Conference takes place June 25-29. The technical program includes tracks that push the engineering envelope. The Alternative Technologies track seeks papers on photovoltaic (PV), geothermal, wind power and variable-refrigerant-volume (VRV) systems, solar and other technologies, as well as how these systems affect the first cost and operating cost of the building. Papers describing the science behind emerging technologies incorporated into net-zero-energy (NZEB) design are sought.

The Net-Zero Buildings track seeks papers that examine NZEB design, cost to achieve these buildings, existing NZEBs and operational and maintenance issues and costs. Case studies illustrate how to achieve NZEB in designs are sought, also. The Engineering Tools track seeks papers that address the range of different energy modeling and building information modeling tools available, their use and specific applications and integrated approaches.

Papers from owner or architect perspectives or case studies that illustrate modeling techniques are requested. In addition, papers are sought for tracks on Commissioning, HVAC Systems, HVAC Fundamentals and Applications, Professional Skills and Refrigeration. Full-length technical papers or conference paper abstracts (400 words or less) should be submitted by Sept. 17.

For more information about the two types of papers and to submit a full-length technical paper or conference paper abstract, visit www.ashrae.org/montreal.

The conference is expected to attract some 1,500 attendees from 60 countries. The technical program takes place Sunday, June 26–Wednesday, June 29, and includes paper presentations as well as non-paper presentations. Approved papers are published in ASHRAE Transactions.

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ASHRAE Earns EPA's ENERGY STAR® for Superior Energy Efficiency

ALBUQUERQUE – ASHRAE has earned the U.S. Environmental Protection Agency's (EPA's) prestigious ENERGY STAR, the national symbol for protecting the environment through superior energy efficiency, for its renovated Headquarters in Atlanta. This signifies that the building performs in the top 25 percent of similar facilities nationwide for energy efficiency.

Jean Lupinacci, chief of the ENERGY STAR Commercial & Industrial Branch, presented the award during ASHRAE's 2010 Annual Conference taking place this week. Lupinacci spoke today, June 28, during the Presidential Luncheon and presented ENERGY STAR to ASHRAE President Gordon Holness.

"Improving the energy efficiency of our nation's buildings is critical to protecting our environment," Lupinacci said. "From the boiler room to the board room, organizations are leading the way by making their buildings more efficient and earning EPA's ENERGY STAR." "In deciding to renovate our existing Headquarters building, ASHRAE followed its mission of 'promoting a sustainable world,'" ASHRAE President Gordon Holness said. "The renovation gave us the opportunity to demonstrate that existing buildings can be upgraded to provide equal or better than new building performance. We are delighted to have achieved the ENERGY STAR rating as further indication of successful implementation and real-world performance.

Commercial buildings that earn the ENERGY STAR use an average of 35 percent less energy than typical buildings and also release 35 percent less carbon dioxide into the atmosphere. ASHRAE improved its energy performance by managing energy strategically across the entire organization and by making cost-effective improvements to its building. ASHRAE has prevented greenhouse gas emissions equal to the electricity use from nearly 22 households for a year.

The national average site energy use index (EUI) is 68 and average source EUI is 228. ASHRAE's site energy intensity is 49 and source is 162.

To earn ENERGY STAR, ASHRAE took the following actions:

- Reduced its estimated annual energy usage by more than 32.5 percent through enhancements to the building envelope and use of the following systems: Dedicated outside air system with energy recovery, ground-source heat pumps, and mini-split systems with heat recovery.
- Utilizing an extensive permanent air quality monitoring system to help sustain occupant comfort and well-being in the renovated building.
- Utilizing a 6,000 CFM dedicated outside air system for the building that can provide ventilation rates to each space that are 30 percent higher than Standard 62.1-2004.
- Reduced IAQ problems resulting from the construction/renovation process in order to help sustain the comfort and well-being of construction workers and building occupants by developing and following a construction IAQ management plan.
- Providing a comfortable thermal environment that supports the productivity and well-being of all building occupants by adhering to the requirements of ASHRAE Standard 55 and by surveying their occupants for feedback on a regular basis.
- Demonstrating how PV arrays can be utilized to generate clean power by taking advantage of under-utilized space on building roof. It is estimated that the installed array will provide more than 8 percent of the building's total annual energy cost in the form of renewable energy (in addition to the energy savings measures taken).

For a complete list of sustainability measures undertaken by ASHRAE, visit ashrae.org/building.

The building received an A- rating as designed in a new building energy labeling program being launched by ASHRAE. The Building Energy Quotient™ program, which is known as Building EQ, will include both asset and operational ratings for all building types, except residential.

The renovation also earned LEED Platinum Certification in the New Construction 2.2 rating system from the U.S.



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Green Building Council. It is one of only six buildings in the state of Georgia to receive a LEED Platinum rating, the highest certification the program offers.

ENERGY STAR was introduced by EPA in 1992 as a voluntary, market-based partnership to reduce greenhouse gas emissions through energy efficiency. Today, the ENERGY STAR label can be found on more than 60 different kinds of products, new homes and commercial and industrial buildings. Products and buildings that have earned the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy-efficiency specifications set by the government.

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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

Building Humidification

To finalize meeting arrangements and lunch we need your RSVP by 12:00 (noon) on Monday, September 13, 2010.

Our preference would be for everyone to **register on line** or 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 September meeting at Hilton Garden in Kimberly.

Name: _____

Company: _____

Number Attending: _____

Will not attend the September 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 Building Humidification

Sponsored by: ASHRAE Northeast Wisconsin Chapter

Location: Hilton Garden

Date: September 16th

Presentation Start Time: 11:30am

Presentation End Time: