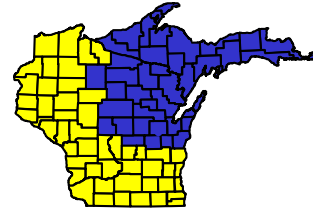




Northeast Wisconsin Chapter #107 October 2011



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Membership Promotion

Joe Dettlaff

Research Promotion

Tilak Andhole

Student Activities

TEGA

Dale Pearson

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Dave Schaefer

Homepage Editor

Gordy Jacobs

Other BOG

Steve Marthaler
David Carter
Tina Brueckner

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

President's Message

We had our first meeting of the year last month at the Swan Club in De Pere. Joe Dettlaff from Berners-Schober spoke on Demand Control Ventilation. I would like to thank Joe for his very informative presentation.

I am very excited to announce that we are having Randall Dahmen, P.E. speak this month at our meeting. Please note that the meeting times have changed for this meeting to allow more time to discuss the changes. The presentation will start at 11:00 a.m. and run till 1:00 p.m. with lunch to start at 1:00 p.m. Randall will focus on the changes as associated with the implementation of the 2009 WI Commercial Building Code--IECC, IMC & IFGC.

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 two open chapter level committee chairs. If you're interested in becoming an active member of the NEW 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".

Please forward this email to any of your co-workers or friends that you feel would be interested in becoming a member of ASHRAE or in attending one of our meetings.

Ryan J. Macario --- President, NEW ASHRAE Chapter



Meeting / Event Schedule

<u>Date</u>	<u>Location</u>	<u>Topic</u>	<u>Presenter</u>	<u>Time</u>
Tuesday, September 20, 2011	Swan Club, De Pere	Demand Control Ventilation	Joe Dettlaff	11:30 a.m. - 1:30 p.m.
Wednesday, October 19, 2011	Liberty Hall, Kimberly	Code Refresher	Randall Dahmen	11:00 a.m. - 2:00 p.m.
Tuesday, November 08, 2011	Liberty Hall, Kimberly	Utility Metering	Kimberly Barker	11:30 a.m. - 1:30 p.m.
Tuesday, December 13, 2011	TBD	Holiday Dinner		TBD
Tuesday, January 10, 2012	Swan Club, De Pere	Indoor Air Quality	Wane Baker	11:30 a.m. - 1:30 p.m.
Tuesday, February 14, 2012	Greenheck, Schofield	Energy Recovery / Heat Pump Applications	TBD	TBD
Wednesday, March 14, 2012	Bemis Center, De Pere	Hydronics / Heating	Dan Holohan	All Day Event
Tuesday, April 10, 2012	UW Oshkosh, Oshkosh	New Academic Building Tour	Joe Dettlaff	TBD
May 3 - 5, 2012	Mall of America, Bloomington, MN	CRC		
Wednesday, May 23, 2012	Royal St. Patricks, Wrightstown	Golf Outing		12:00 p.m. - Shotgun Start

September Meeting notes from Secretary Matt Veriha:

1:00 Meeting called to order by Ryan Macario.

Discussion on using the website to register for meetings ensued. Ryan encouraged all members to register through website as this aids in record keeping for number of participants and what topics are best attended.

Ryan ran down location, dates, and meeting agendas for future meetings.

Tina Bruckner gave a quick synopsis of the DRC and her duties. Encourage people to contact her or Ryan with good, and bad things about ASHRAE they want to have represented at future meetings.

Kevin Weber announced what a great job Tina Brueckner did at the recent meeting in Madison. Kevin (with Tina's aid) gave a quick synopsis of what was discussed at that meeting.

No Treasurers report this meeting.

Meeting adjourned at 1:15.



October Meeting

October Meeting Agenda:

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

September Meeting Topic:

Code Refresher

Presenter: Randall R. Dahmen, P.E.

Date: *Wednesday October 19, 2011*

Time: *11:00 a.m. – 2:00 p.m.*

Registration begins at 10:30 a.m. and we will have the presentation starting at 11:00, 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 by using on-line registration at www.newwisconsinashrae.org or to Kevin Weber to attend.

Email: kevin@webersaleshvac.com

Randall R. Dahmen, P.E. State of Wisconsin

Mr. Dahmen graduated with honors from the University of Wisconsin-Madison, in 1985, with a Bachelor of Science Degree in Engineering Mechanics. He continued engineering studies at the University of Wisconsin-Madison and was awarded a Master of Science Degree in Engineering Mechanics in 1986. He has been a registered Professional Engineer in the State of Wisconsin since 1989.

Prior to his current position, Randy worked with the Carnes Company, a HVAC equipment and air system manufacturer located in Verona, WI. During that time, he was involved in the design and testing of air movement equipment, the certification of air movement equipment & systems (via ARI, UL, CSA), as well as the start-up & servicing of equipment delivered to the field. He was the Senior Product Engineer for the Energy Recovery Wheel, and Air Handling Unit product lines.

He has worked for the State of Wisconsin's Division of Safety and Buildings as an Advanced Engineering Consultant for the past 16 yrs. His present efforts involve HVAC Contractor Registration and the HVAC Qualifier Certification Programs; the Wisconsin Commercial Building Code with emphasis on the HVAC and Energy Conservation Chapters; training as it involves Designers, Contractors, and Building Owners on the use of the HVAC and Energy Conservation Chapters of the Commercial and Uniform Building Codes; as well as Commercial Building Plan Review. He represents the Integrated Services Bureau on the Commercial Building Energy Conservation and HVAC Committees.

He is certified as a Commercial Building Inspector, and as a Uniform Dwelling Code HVAC Inspector. He has passed the Wisconsin HVAC Qualifier Examination.

He earned an "Outstanding Service Award" from the Wisconsin Department of Commerce in 1998.

He was awarded a "Certificate of Appreciation" from the Milwaukee Chapter of ASHRAE for "...devoted service to the growth and progress of ASHRAE Inc." for 2005-2006

Randy was a finalist for the U.S. Department of Energy's Jeffrey Johnson Award for his energy conservation efforts in 2008.



From ASHRAE Society

ASHRAE, AHR Expo Return to Chicago for 2012 Winter Conference

ATLANTA—Registration is open for ASHRAE’s 2012 Winter Conference in Chicago where attendees have the chance to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design, as well as participate in technical tours; attend ASHRAE Learning Institute courses; earn professional credits; and obtain ASHRAE certifications.

The 2012 Winter Conference takes place Jan. 21-25 at the Palmer House Hilton. The International Air-Conditioning, Heating, Refrigerating Expo®, held in conjunction with the Winter Conference, will run Jan. 23-25. The Expo, www.ahrexpo.com, is held at the McCormick Place.

In keeping with ASHRAE’s goal of continuing education the Conference offers over 200 Professional Development Hours, as well as Continuing Education Units, which can be applied toward a Professional Engineering license.

The technical program features more than 90 programs and 300 speakers addressing energy modeling applications; integrated design; healthcare, laboratories and data center applications, among others; operations and maintenance; high performance buildings; as well as refrigeration and systems and equipment sessions. Additionally, there is a new “mini-conference” on Installation, Operation & Maintenance of HVAC Systems built within the Technical Program. The O&M mini-conference is scheduled on Jan. 22-23. The full Technical Program, which will be announced later this month, offers the opportunity to earn a year’s worth of PDHs, NY PDHs, AIA LUs and LEED AP credits.

The Chicago Virtual Conference is included with a paid Conference registration—comp and single day registration excluded—and includes on-demand access to all speakers’ audio presentations synced to their presentations. Attendees and speakers can post comments on the presentations for a two-week period. Those not attending the Chicago Winter Conference in person may register for the Virtual Conference only. Register at www.ashrae.org/chicagovirtual.

Five Professional Development Seminars and 15 Short Courses are offered to help industry professionals stay current on HVAC technology, including how to apply the newest ASHRAE standards. The ASHRAE Learning Institute (ALI) is offering a new half-day short course on the basics of combined heating and power systems, as well as updates to the full-day professional development seminars focusing on Standards 62.1, Ventilation for Acceptable Indoor Air Quality, and 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings. ALI courses are approved for renewal of professional engineer and professional architect licenses, as well as for industry certification programs.

Additionally, ASHRAE offers a special administration of all six certification examinations on Jan. 25: Building Energy Assessment Professional (BEAP), Building Energy Modeling Professional (BEMP), Commissioning Process Management Professional (CPMP), High-Performance Building Design Professional (HBDP), Healthcare Facility Design Professional (HFDP) and Operations & Performance Management Professional (OPMP). ASHRAE’s certification program recognizes industry professionals who have mastered knowledge and skills reflecting best practices in certain aspects of building design and operations. More information on each certification can be found at www.ashrae.org/chicagoexams.

ASHRAE Conference technical tours give you a first-hand look at technology developed by members to further the industry. Tours include the North Central College Residential and Recreation Center, Loyola University Information Commons, the University of Chicago Mansueto Library and Rush University Medical Center Central Energy Plant.

The Winter Conference also includes a program designed for students of the Society. Highlights of the program, held on Sunday, Jan. 22, include speakers, a professional development session and



From ASHRAE Society

presentations by the recipients of the Student Design Competition and a technical tour of the University of Chicago library.

To register and for complete Conference information, visit www.ashrae.org/chicago.

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Alternative to ASHRAE Standard 62.1 Ventilation Rate Procedure Proposed

ATLANTA – Public comment is being sought on the proposed allowance of an additional default value to the ventilation rate procedure in ASHRAE’s indoor air quality standard.

ANSI/ASHRAE Standard 62.1-2010, Ventilation for Acceptable Indoor Air Quality, sets minimum ventilation rates and other requirements for commercial and institutional buildings. The ventilation rate procedure provides a prescriptive method for determining minimum ventilation requirements. It accounts for pollutant sources from both the building and its occupants, and allows the designer to account for the efficiency of different ventilation systems when delivering outdoor air to the breathing zone.

Some users of Standard 62.1 believe that the ventilation rate procedure is “too complicated,” according to Standard 62.1 chair Roger Hedrick. “While the 62.1 committee disagrees with this in most cases – the basics of the VRP are quite straightforward – the committee agrees that application of the multiple-zone recirculating system equations described in Section 6.2.5 and Appendix A can be complex.”

Proposed addendum f, open for public review until Oct. 16, provides an additional default value for V_{pz} .

“Difficulty determining an appropriate value for V_{pz} seems to be a frequent issue with users of the multiple space equations,” he said. “The committee decided that supplying a default value would simplify application. However, the default value is necessarily conservative. In a large number of applications, determining the ‘lowest zone primary airflow value expected at the design condition analyzed’ will result in a value for V_{pz} that is higher than the default, resulting in a reduced outdoor air intake requirement.”

Addendum f is open for public review until Oct. 16, 2011, along with proposed addendum h. Also, proposed addendum g to the standard is open for public review until Oct. 31, 2011. For more information, visit www.ashrae.org/publicreviews. The other addenda open for public review are:

- addendum h (until Oct. 16). Table 6.1 in the standard includes ventilation rates for “Sports arena (play area)” and “Gym, stadium (play area).” Both space types have ventilation rates based on floor area only, with a per person rate of zero. Users of the standard have expressed interest in applying demand controlled ventilation to these space types, which is effectively prohibited by the lack of a per person component to the ventilation rate. This proposed addendum replaces both of these space types with “Gym, Sports Arena (play area),” with $R_p = 20$ cfm/person and $R_a = 0.06$ cfm/ft². In most cases, the overall ventilation rate for these spaces is expected to decrease, possibly significantly, according to Hedrick.

One concern about allowing CO₂-based demand controlled ventilation in these spaces is that the volume per person in these spaces is typically large, which means that CO₂ concentration changes will have longer than usual lag times behind occupancy changes, he noted.

- Addendum g (open until Oct. 31). Currently users are directed that for space types that are not



From ASHRAE Society

listed in Table 6-1 they should select the space type from the table that is most similar to the space being designed. However, some space types are actually ventilated using the exhaust ventilation requirements of Section 6.5 and Table 6-4. This proposed addendum adds language directing the user to select the space type that is most similar to the space in question from either Table 6-1 or 6-4, and to design the ventilation for the space according to the Section 6.2 or 6.5, as appropriate

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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.