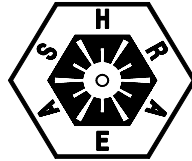


THE BADGERAIRE

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS, INC.

Corey Metzger
David Grassl
Lorisa Behrens
Maggie Roll

President
Vice President
Secretary
Treasurer



Aaron Ting
Michelle Haines
Steven Hagman
Maggie Roll

Director
Director
Director
Editor

A PUBLICATION OF THE WISCONSIN CHAPTER OF ASHRAE

Volume Number V – February, 2007

February Lunch Program: Wisconsin Code Review

Thursday, February 15, 2007

This month Randy Dahmen of the State of Wisconsin Department of Commerce will be our featured speaker. He will discuss the International Mechanical Code changes that went into effect in July of 2002 and maybe some new surprises. His presentation will include an overview of the most frequently asked questions surrounding the new IMC code and areas of the code that are causing the most confusion to designers, engineers, contractors and inspectors. Randy will also allow ample time for our membership to ask questions about codes that they do not understand.

Program Location

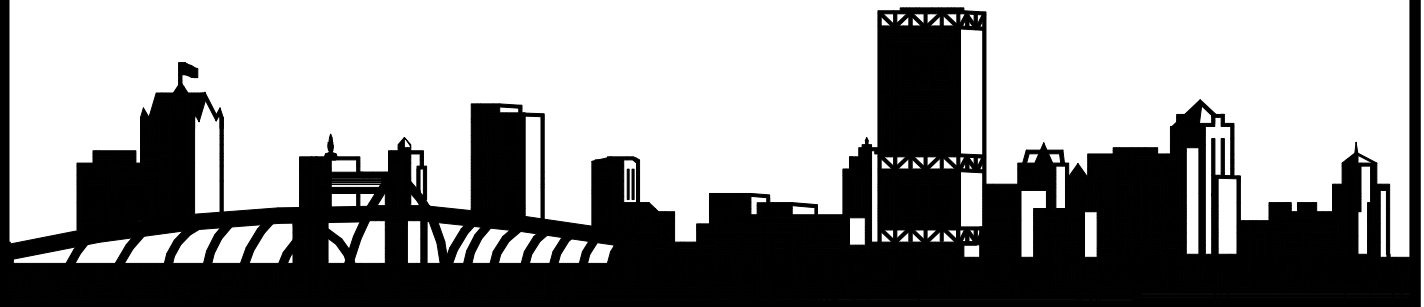
Milwaukee School of Engineering
Todd Wehr Auditorium, 1025 N. Broadway, Milwaukee, WI

Registration:	11:00 A.M. - 11:30 A.M.
Business Meeting:	11:30 A.M. - 11:45 A.M.
Main Program w/lunch:	11:45 A.M. - 1:00 P.M.

The program cost of \$20.00 will include a buffet style lunch, including salad, rolls, vegetables, potatoes, a choice of main dishes, a beverage of your choice, and dessert. Checks should be made payable to the "Wisconsin Chapter of ASHRAE."

PLEASE MAKE YOUR RESERVATIONS ONLINE AT WWW.ASHRAE-WI.ORG OR TELEPHONE YOUR RESERVATION TO MAGGIE ROLL @ 414.778.7422. IF CALLING IN YOUR RESERVATION, PLEASE SPELL OUT YOUR LAST NAME ON THE MESSAGE. PLEASE HAVE YOUR RESERVATIONS IN BY CLOSE OF BUSINESS, WEDNESDAY FEBRUARY 14, 2007.

THANK YOU



PRESIDENT'S COLUMN

Hello everyone. I hope you are all finding ways to stay warm with the recent frigid weather. I would like to thank Dennis Stanke and Earl Rudolph for taking time out of their busy schedules to present at our January meeting. I hope all who attended found the presentations as enjoyable and informative as I did.

This month we have our ever popular Wisconsin Building Code Update program presented by Randy Dahmen. Randy will be discussing changes to the Building Code, including those in the upcoming code based on the 2006 International Code Council codes. It sounds like there will be a significant number of changes to discuss this year, so this should be a valuable presentation.

We are also very excited about our upcoming meetings for the remainder of the year. In March we have Roy Ahlgren, Director of Bell & Gossett's Little Red Schoolhouse, coming to do a day long seminar on energy savings in hydronic systems. In April Mark Lentz, President of Lentz Engineering Associates, will be presenting about the implications of ASHRAE Standards 90.1 and 62.1 with respect to VAV systems. In May Julian de Bullet, Director of Industry Relations for McQuay International and an ASHRAE Distinguished Lecturer, will be sharing presentations on energy analysis in building design and green HVAC design. Continuing education credits will be available at each of these meetings. We are also planning on having a tour of the Pettit National Ice Center along with some socializing, including families and friends, in June.

One final item I would like to bring to your attention is the upcoming CRC being held in Madison from May 3rd through May 5th. If you have not been to a CRC or if it has been a while, this will be a great opportunity to attend. The Madison Chapter appears to have a great schedule put together including a number of options for technical sessions on Friday May 4th. If you are interested, more information is available at <http://www.ashraemadison.org/crc2007.htm>. We may try to help coordinate car pooling to help minimize costs for anyone who is interested. More information will be available in the next few months.

If you have questions about any of the information in this newsletter please feel free to contact me at any time. I look forward to seeing you at our meeting on February 15th. Thank you.

Corey Metzger
Wisconsin Chapter of ASHRAE President
corey-metzger@mchsi.com

ATTENTION! **Saving Energy in Hydronic Systems**

On March 15th, 2007 the Wisconsin ASHRAE Chapter is please to announce they will be sponsoring a day-long seminar on Saving Energy in Hydronic Systems. The featured speaker for the seminar will be Roy Ahlgren, the Director of the ITT Fluid Handling's Training & Education Department, teaching courses in steam and water system through ITT Bell & Gossett's Little Red Schoolhouse in Morton Grove, Illinois. He is a past chairman of the ASHRAE Technical Committee TC6.1 Hydronic and Steam Equipment and Systems. Roy is also the author of many booklets and articles on Fluid Handling topics.

With the recent and continued push within ASHRAE to design and incorporate energy efficient systems; this seminar will assist in energy saving techniques through pumping applications. This practical course will be a great opportunity to focus on pump fundamentals, hydronic systems, pump selection, parallel & series pumping, system control, system balance, primary-secondary pumps, air management, open and closed systems, and the use of variable flow systems.

The seminar will start at 8 am with registration and refreshments beginning at 7:15 am. Handouts will be provided and food and beverages will be served for the entire day.

Seminar Location:

Doubletree Hotel
 18155 W. Bluemound Road
 Brookfield, WI

Prices:

Full-Day Attendance - \$75 ASHRAE Member (\$100 Non-ASHRAE Members or at the door)

Half-Day Attendance - \$40 ASHRAE Member (\$50 Non-ASHRAE Members)

To sign up for this seminar, please email or call David Grassl at (414) 266-9231 or david.l.grassl@gasai.com. Payment is due upon registration.

Earl Rudolph, Calmac, provided the early technical presentation. He described how Thermal Storage Systems can be used for load shifting to the advantage of both building owner and the utility. The participants learned about the various system designs, contribution to lower cooling system installed costs and the performance benefits of application to operating room cooling in hospitals.

Dennis Stanke, Trane Company, took the participants through ASHRAE Standard 62.1-2004 after dinner. That is no small feat even before dinner! Dennis went through the concepts and detail of the standard – what it states and what it actually means. Look for his papers in the Journal where he has been explaining the application of the standard to practical design situations.

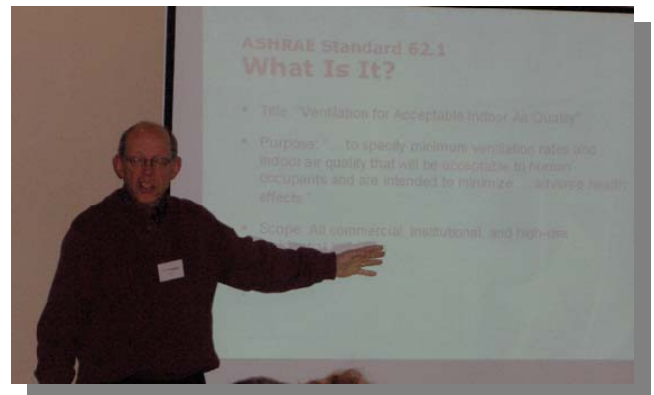
To capture everyone’s attention at the start, Dennis pointed out that even where the current standard may not yet be incorporated into code, it may, in court, be considered the current standard of care.

JANUARY MEETING REPORT

Our January Chapter Meeting was a great success! There were 49 members present; two very instructive technical presentations; we recognized the valued contribution of three Life Members; and the participants were able to network over the always good meals at Alioto’s.



First things first, Chapter President Cory Metzger recognized the contribution of three ASHRAE Life Members: Jay Jorgensen, Miller Engineering, Jim Steele, Trane Company, and Bob Zeman, Tighe-Zeman. Please take the time to thank them for their contribution to our engineering community.



Funding

To this point, The Badgeraire articles on ASHRAE Research have considered several aspects of the theme driving the program, "Navigation for a Sustainable Future". Sustainable building design, construction, and operation are critical issues today and, potent business drivers. ASHRAE President

Terry Townsend has challenged us all to take a leadership role in sustainability.

We can do that by investing the time in learning about sustainable building design and incorporating it into our standard practice. We can also do that through our support for ASHRAE Research. The ASHRAE Research Program is supported by our contributions (46%), by proceeds from the Exposition (46%), and from Investments (6%) and Dues (2%). Since 1919, when it was initiated, ASHRAE Research has been a continuous source of improvement for our practice. We benefit from the investments of our predecessors and from our own investment.

It has been a few years since we have conducted a formal ASHRAE Research Promotion Program – that is our challenge to correct. We owe it to our clients, our community, and to ourselves to invest in improving engineering best practices.

Our goal is to raise \$4,800 for ASHRAE Research this year. We are currently at \$614. That is the challenge that I want to present to our Wisconsin Chapter – let's re-vamp our research promotion activity and beat that goal!

Contributions may be tax deductible, ASHRAE is qualified as a 501(c) (3) organization. You may make personal contributions or they may come from your company – check if your personal contributions qualify for company match to double your impact. And, contributions are easy to make, on-line when you renew your membership, or on-line at any time at the secure site:

https://www.ashrae.org/aboutus/resource_promotion.asp

Or, contact me – I can generate an invoice if your company needs one and I am willing to pick up a check just about anywhere.

ASHRAE Research: Wisconsin Chapter Promotion 2007

As the Wisconsin Chapter Research Promotion activity this year, I am offering to facilitate a discussion:

“ASHRAE & Sustainability: Lessons from the 2007 Winter Meeting”.

I will be attending the Winter Meeting and intend to compile my observations of best sustainable practice as demonstrated there. My offer is to share what I have learned in an open discussion with interested groups throughout our chapter area.

At our May meeting we are fortunate to have Julian de Bullet discussing ‘Green HVAC Design’ and ‘Energy Analysis’. That sounds like a great meeting to have as our ASHRAE Promotion Night to report on our investment success.

So, we have a goal, \$4,800, a timeline, May 17, 2007, and a great purpose, ASHRAE Research – investment in our profession and improvement in our practice.

I will start to report our progress in the Badgeraire. Please don't hesitate to contact me to volunteer to help, or to contribute, or to schedule an *ASHRAE & Sustainability Discussion*, or to offer your suggestions. Thank-you in advance for your active participation – we will follow up with a more personal thank-you and recognition as the program progresses. We're off!

Jude Anders, RP Chair

Email: judeanders@sbcglobal.net

Phone: (414) 828-3710

ATTENTION

Are you looking for a new employee?
We accept classified listings for job opportunities in the HVAC industry.

If interested in posting a classified, please contact Maggie Roll at mroll@ringdu.com or 414.778.7422.

The charge for a classified is \$175/month to be used towards Research Promotion and Student Activities.



HVAC Engineer Full Time

Milwaukee Stove & Furnace Supply Company, based in Milwaukee with branches in Rockford, Wausau, Madison, Green Bay & LaCrosse, is a wholesale distributor of HVAC equipment and supplies since 1922. The Milwaukee location has a HVAC Engineer position available immediately, due to expansion.

The principle requirement of an effective HVAC Engineer is an overall ability to meet the needs of residential and commercial customers while satisfying corporate objectives. Position requirements include:

- Customer Service
 - Design/Build market
 - Plan & Spec market
 - Building customer relationships
 - Competitive job quoting
 - Effective quote follow-up
 - Process/expedite customer orders
 - Application and service problem solving
- Engineering
 - Heat gain/loss calculations
 - Envelope compliance calculations
 - Design calculations
 - Equipment selection and application
 - AutoCAD drafting and specifications
 - Submittal preparation
 - Site survey

The HVAC Engineer is in place to support the sales of equipment and design services. This requires a team approach with both the outside and inside salespeople and/or an individual approach requiring the engineer to make field sales calls on contractors, builders and engineers. Minimum requirements for employment include: PC literacy, great communication skills and minimum of 5 years of experience in design. Registration as a Professional Engineer or Designer is desired, but not required.

All interested applicants should forward their resume in confidence to:

Larry Groser, P.E.
Engineering Manager
Milwaukee Stove & Furnace Supply Co.
5070 W. State Street
Milwaukee, WI 53208
Phone: 414.258.0300
Fax: 414.258.8552
Email: lsg@mstove.com

WISCONSIN CHAPTER OF ASHRAE
 MAGGIE ROLL
 10101 INNOVATION DR., SUITE 200
 MILWAUKEE, WI 53226



MEETING DATE / THEMES	LOCATION	TOPIC	SPEAKER
February 15, 2007 Lunch Meeting	MSOE	Wisconsin Code Review	Randy Dahmen of the Wisconsin Dept. of Commerce
March 15, 2007 All day Seminar	Doubletree Hotel	Energy Savings in Hydronics	Roy Alghren
April 18, 2007	WEBCAST 12pm-3pm	Indoor Environmental Design: Practical Solutions to Everyday Problems	
April 19, 2007 Evening Meeting	TBA	Implication of Standard 62.1 and 90.1 on VAV Reheat Systems	Mark Lenz
May 17, 2007 Evening Meeting	TBA	Energy Analysis: Option or Necessity?	Julian deBullet
June Evening Meeting	Pettit Center	Pettit Center Tour and Ice Skating	TBA

All meetings will be held the third Thursday of every month, except December.
 *Please note: This is a tentative schedule; topics may be subject to change.