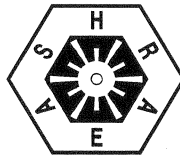


THE BADGERAIRE

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



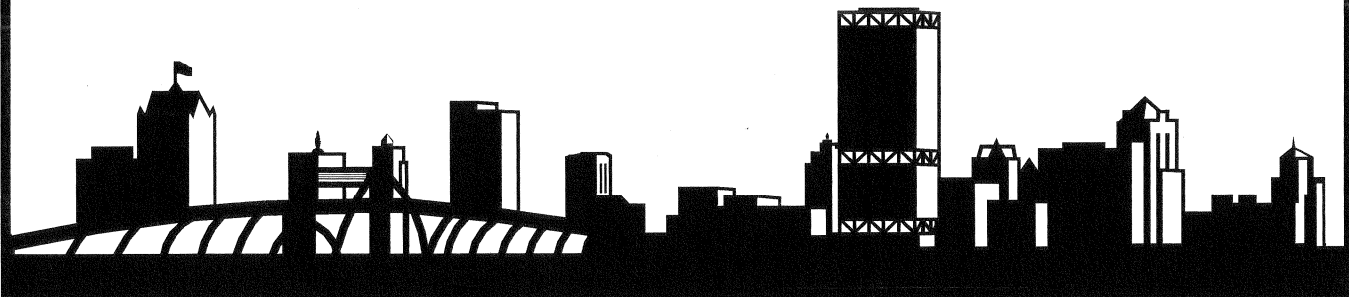
November 18, 2010 Program: ASHRAE Standard 189.1

You won't want to miss the November meeting. This month's topic is ***ASHRAE Standard 189.1, Standard for the Design of High Performance, Green Buildings***. This standard contains the minimum acceptable criteria for high-performance buildings and includes the building's sustainability, water use efficiency, energy efficiency, indoor environmental quality, impact on the atmosphere, materials and resources, and construction/plans for operation. This presentation will help you understand the new standard, how it impacts your business and the provides knowledge and skills to apply the standard.

Our presenter for the evening will be Mr. Merle F. McBride, PhD, P.E. Mr. McBride has been with Owens Corning for 34 years and is a Senior Research Associate. He received his degrees in Mechanical Engineering from the Ohio State University and is a registered professional engineer in Ohio. His technical focus has been on the energy performance of residential and commercial buildings which he has used in the development of U.S. energy codes and standards. Dr. McBride has been an active member in ASHRAE at the national level since 1976, has served on several Technical Committees, was a contributing author to handbook chapters and served ten years on the Standards Committee. His current committee appointments include: Standards 90.1, 90.2 and 189.1. He has been on all seven of the ASHRAE Advanced Energy Design Guide committees. Dr. McBride has published 46 technical papers, was awarded two U.S. patents, and received multiple awards from ASHRAE and industry.

- ***Program Date: Thursday, November 18, 2010***
- ***Program Location: Alioto's Restaurant, 3041 N. Mayfair Rd, Milwaukee***
- ***Registration/Gathering/Social Time: 5:00 P***
- ***Dinner Time: 6:00 P.M., Speaker to Follow***
- ***Please register online just as soon as possible so that Alioto's can plan accordingly. Go to www.ashrae-wi.org and be sure to specify your meal choice (beef or chicken)***

Prices: The program cost is \$20 for non-members. There is no cost for local Wisconsin Chapter ASHRAE members. Checks should be made payable to the "Wisconsin Chapter of ASHRAE."



President's Column:

I would like to take this opportunity to welcome everyone to the 2010-11 ASHRAE year and hope everyone is enjoying the beautiful Fall weather.

Our September chapter meeting was well attended and included a tour and overview of the Building Dashboard installed at the new UWM Cambridge Commons student dorm. For those not able to attend, the Building Dashboard is designed to provide real time feedback of energy use and promote competition between people in buildings and between differing building populations. A special thanks to Chris Seitz at Uihlein Electric for providing the overview.

Our October chapter meeting was again well attended as attendees heard a presentation on Energy Recovery Ventilator Technologies, Applications, and Code Requirements. A very appreciative thank you goes out to Larry Shiller with Micro Metl Corporation for the presentation.

Our next Chapter gathering will be a presentation on ASHRAE Standard 189.1 (Design of High-Performance Green Buildings) and will be an evening meeting held at Alioto's Restaurant in Wauwatosa. For the presentation, we welcome ASHRAE Distinguished Lecturer Merle McBride, Senior Research Associate at the Owens Corning Center of Science and Technology. If you have not signed up yet, please do so as this is sure to be an informative and beneficial discussion.

Please feel free to contact me or other Board of Governors members with comments or questions about of Chapter.

James Burke
President ASHRAE - Wisconsin Chapter
james.m.burke@jci.com
414-259-2831

Table top presentations:

At select chapter meetings in the upcoming year we will offer individuals wishing to display a product or service the opportunity to do so during the reception and cocktail time. Upcoming table top presentations will be advertised in the Badgeraire if a write-up is available in time for newsletter publishing. The presenter will be allowed space on one 8' conference type table. The fee for the table top is \$175 with all proceeds going towards Research Promotion. Spots are available on a first come, first served basis. Please contact Justin Patrick at Justin.K.Patrick@jci.com to reserve your spot. Fluid

Handling Inc. will use the November slot to show a new high efficiency condensing boiler as well as Taco's "smart circulators" and air/dirt separators.

December Meeting: Plan Now for the ASHRAE Holiday Party on December 16th

Last year's format was a great success, so we will do it again. Meet immediately after work in the "Library" at Mo's Irish Pub on the corner of Bluemound and Highway 100 in Wauwatosa for heavy appetizers, beverages and socialization with your fellow friends from the industry. It's a good time and a bargain, too. No charge for members/significant others and only \$20.00 for non-members/significant others. Final details will follow in the December Badgeraire

Greenbuild 2010 is November 17-19 in Chicago

The U.S. Green Building Council's *Greenbuild International Conference and Expo* convenes the largest gathering of representatives from all sectors of the green building movement. For details on workshops and the exhibit, and to register, see <http://www.greenbuildexpo.org>.

Energy Center U Offers DDC Class for High Performance Buildings, December 7, 8, or 9

Energy Center University is hosting a day seminar called "Direct Digital Control Systems for High Performance Buildings." The course covers fundamental DDC concepts, best practices, system architecture and data input/output. It is offered December 7 in Oak Brook, Illinois, December 8 in Madison, and December 9 in Eau Claire. For details go to <http://www.ecw.org/university>.

Annual ASHRAE AHR Expo Jan. 31-Feb. 2

Feeling lucky? This year's big show is in Las Vegas at the Las Vegas Convention Center. For all the details, see www.AHREXP.com.

ASHRAE Region VI CRC in Green Bay in April

Please plan to support our chapter to the north April 14, 15 and 16 of 2011. It will be at the KI Convention Center in Green Bay. Save the date and watch this publication for details.

Ring and DuChateau Honored With ASHRAE Technology Award

Ring and DuChateau has been selected as a Second Place Winner for an ASHRAE Technology Award for their design for the Johnson Controls Corporate Headquarters project. This award recognizes outstanding achievement in the design and operation of energy-efficient buildings. Congratulations to Ring and DuChateau!

**ASHRAE Standard 90.1-2007 Now Available
Online---Free!**

This building energy standard is now available as a free PDF download by going to www.ashrae.org/standard901-2007-free.

Student handbook:

The ASHRAE Wisconsin Chapter will once again this year help student members with the purchase of an ASHRAE Handbook. The Chapter will reimburse student members for half of the cost of one book. Student members, contact Ryan McNally, RyanM@ibcengineering.com.

Call for Newsletter Content

In order to add interest and to serve our members better, we would like to add content to the Badgeraire. Specifically we are looking for members to submit the following:

- o **Interesting Project Summaries:** If you think that you have been involved in an interesting project and would like to advertise it a bit, we would like you to use your best writing skills to bring thumbnail sketches in at 300-400 words.
- o **Help Wanted Ads:** Let's do what we can to get/keep our associates working. We don't have room for all your HR requirements, but a brief paragraph and a link to further information would be great.
- o **Photos:** Got a blast from the past, like a picture of Randy Sikkema in a pale green leisure suit (most of our members probably don't know what a leisure suit is)? Or past meetings or interesting photos pertaining to our industry? If you can scan it, we can use it.

To discuss/submit newsletter content, contact Bill Armstrong at billarm@www.fluidh.com.

Membership:

We have made great progress at culling the membership list of people who have moved on and of keeping the list up-to-date. We are always trying to add new members to keep our chapter growing. Please encourage your work associates to consider joining our chapter if they are not members. Applications for new members can be filled out on line at www.ashrae.org, or I would be happy to email you an application. If you sign up online be sure to select the "Wisconsin" ASHRAE chapter so you are assigned to the correct local chapter. Please contact me, Jeff Weis, at jweis@mastershvac.com if you need an application.

To change **your** information online go to www.ashrae.org, go to the "Members Tab" at the top left, click on "Manage Membership", and finally click "Address Change" in the center of the page. This will

lead you to the link and you can update your information. Once again, if you send us your updated information, we are happy to take care of this for you, but we ask that you provide us with your member number, as that accelerates getting things changed.



"Science for sustainable environments"

RESEARCH PROMOTION CAMPAIGN BREAKS

\$2 MILLION and 100.1% of GOAL!

\$2,073,445

We want to Thank our ASHRAE Honor Roll Investors from the Wisconsin Chapter for 2009 – 2010 Who Helped Make This All Possible.

Special Thanks to our Chairman **Jude Anders**

***Full Circle Chapter Award for all Offices
Contributing on an Honor Roll Level, Wisconsin
Chapter***

**ASHRAE Research Associates Investors of
\$2,500 to \$4,999**

Johnson Controls - Matching Funds

Major Donors of \$1,000 to \$2,499

Desert Aire

Investors of \$500 to \$999

Plumbing & Mechanical Contractors Assoc. -

Milwaukee and SE Wisconsin

SMACNA – Milwaukee

Investors of \$250 to \$499

Gregg Achtenhagen

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Hydro Flo Products

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McCotter Energy Systems

Timothy Pann

Justin Patrick

Bernard Radoszewski

Earl Vorpapel Jr.

**TO ALL 2009-10 DONORS AND
VOLUNTEERS...THANK YOU!**

ASHRAE - Researching Today - to Change Tomorrow

Since 1919, the Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) has supported research to improve quality of life. ASHRAE Research impacts the industry by advancing the way HVAC&R systems work and the way in which they are applied, and allowing development of technical information to create standards and guidelines which serve as the basis for testing and design practices around the world. The Society has funded thousands of projects addressing such topics as sound, duct design, the effect of oil in refrigerants, load calculations, thermal conductivity, simplified energy analysis procedures, weather data, refrigerant property data, fire and smoke control and solar design. The most significant ASHRAE research has been in the areas of human comfort and the properties of materials and systems used in buildings and refrigeration systems.

"Only an organization such as ASHRAE has the ability to generate research funding, and is able to attract researchers from disparate backgrounds and institutions, and provide a forum to integrate their knowledge to advance the science of HVAC&R engineering and the art of human comfort."

ASHRAE research plays an important role in... Your Health

- Preventing more than 70,000 surgical site infections that occur each year
- Decreasing the spread of airborne diseases
- Improving cancer treatment methods

Your Office

- It's getting hot in here—conserving energy in hot and humid climates
- Selecting boilers for efficient heat use
- Allowing drifting temperatures to save energy

Your Home and School

- Exploring whether classroom upgrades to improve temperature control and air quality improve the performance of schoolwork of children
- Searching for a greater understanding of the relationship between occupant health and ventilation rates, including offices and schools
- Lessening the risk of spoiled food by evaluating how food preservation is influenced by storage conditions

What Funds ASHRAE Research?

- Contributions from members and corporations
- A percentage of member dues
- Income from the ASHRAE cosponsored International Air-Conditioning, Heating, Refrigerating

Exposition held in conjunction with each ASHRAE Winter Meeting

- Interest earned on the Research Reserve and ASHRAE Foundation

How is this money raised?

- By personal contacts between Research Promotion committee volunteers and potential contributors: Industrial Corporations, Contractors, Consulting Engineers, and Individuals
- By special contracts with major contributors (\$1,000 minimum)
- By direct solicitation of ASHRAE members at the time of dues billing
- By self-generated contributions by corporations and individuals who recognize the value of ASHRAE research.
- Income from the ASHRAE cosponsored International Air-Conditioning, Heating, Refrigerating Exposition held in conjunction with each ASHRAE Winter Meeting

Are contributions tax deductible?

Yes! ASHRAE is qualified as a 501(c)(3) organization under the U.S. tax code,

Does ASHRAE use research investments (contributions) to pay salaries, overhead, or committee expenses?

No! All funds raised through the research promotion effort go directly to research projects. Funds raised from other sources pay for administrative and committee expenses, support material, and grants-in-aid projects.

The findings and advancements made possible by ASHRAE Research projects contribute to the greater good of society and the well being of both individuals and industry alike.

YES! I want to support ASHRAE Research.

Please contact Randy Sikkema @
randy.sikkema@hecl.com or call him at
414.918.1255

Upcoming Chapter Meetings-Mark Your Calendars!

MEETING DATE / TIME	LOCATION/TIME	TOPIC	SPEAKER
November 18, 2010, 5:00 P.M.	Alioto's	Standard 189.1	Merle F. McBride, PhD, P.E
December 16, 2010 Right After Work	Mo's Pub, Tosa	Holiday Party	We Hope You ALL Talk
January 20 th , 2011 Noon Meeting	MSOE Tentatively	Annual Code Refresher	Randy Dahmen
February 17 Afternoon Meeting	Miller Brewery Tour	Details to Follow	Details to Follow
March 17, 2011	TBD	½ Day Tech Seminar on a Variety of Topic	Various but St. Patrick is Confirmed

Other Chapters

MEETING DATE / THEMES	LOCATION	TOPIC	SPEAKER
Madison December 13, 2010	Nakoma CC	Waterside Heat Recovery	Mick Schwedfer

For details regarding surrounding chapter meetings see:

- Northeast Chapter <http://www.newisconsinashrae.org/>
- Madison <http://www.ashraemadison.org/>
- Illinois www.illinoisashrae.org.

Wisconsin Chapter Officers and Committee Chairs

President	James Burke
Vice President	Justin Patrick
Secretary	Tim Pann
Treasurer	Jason Leffingwell
Phil Golden	Refrigeration Chair
Jeff Weis	Membership
Randy Sikkema	Research and Promotion Chair
Ryan McNally	Student Chapter Coordinator
Maggie Roll	Historian
Bill Armstrong	Editor
Brian Lynch	Governor at Large
Steve Hagman	Website, Badgeraire Distribution