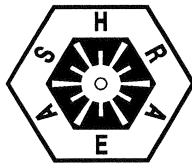


THE BADGERAIRE

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

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A PUBLICATION OF THE WISCONSIN CHAPTER OF ASHRAE

Volume Number 2007/8-III – Nov., 2007

November Program: The Feasibility of Solar Reheat for Commercial Buildings

ASHRAE has established the ambitious goal of reducing building energy usage by 30% by the year 2010 as an intermediate step toward achieving market-viable net zero energy use buildings by the year 2030. A net zero energy use building, or ZEB, is a building for which any external energy requirements are supplied by renewable technologies.

The use of solar panels to heat water is a well-developed technology available now to help meet the 30% reduction desired by 2010. The hot water (actually it is generally hot propylene glycol) generated by solar panels can be used to heat domestic water and swimming pools and for building heat.

At the current price of solar heating systems, Wisconsin's northern climate does not favor heating commercial structures with solely solar heat. Domestic water heating is viable in many cases, as is pool heating and our speaker will touch on these applications. However many commercial buildings have limited domestic water requirements and no pool. Since the best return on investment is achieved in applications where all the heat collected can be used, reheat systems provide another viable heat sink for collected solar heat, because reheat tends to be a year-round load.

At our November 14th program, Mr. James McCarthy from Viessmann Manufacturing will address these issues and provide an insight into the state of solar today. Viessmann is a German-based company and a large supplier of solar systems in Europe and the United States. Mr. McCarthy is Viessmann-U.S.'s manager of training and solar applications. He worked previously as a licensed energy auditor in the state of Rhode Island.

Program Location

Buca di Beppo Restaurant
1233 N. Van Buren St.
Milwaukee, WI 53202

| | |
|---------------------------------------|-----------------------|
| Registration & Social Time | 5:00 p.m. – 5:30 p.m. |
| Mr. McCarthy's Talk: | 5:30 p.m. – 6:30 p.m. |
| Dinner to Follow | |

Prices:

The program cost of \$10/non-member. There is no cost for local chapter ASHRAE members. 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. PLEASE HAVE YOUR
RESERVATIONS IN BY CLOSE OF BUSINESS, MONDAY, NOVEMBER 12, 2007.**

THANK YOU



From the President's Desk

By David Grassl

Welcome everyone to another edition of the BadgerAire. Our last meeting was an enjoyable event, as it allowed us to pair with one of our counterparts, PMSMCA, for a joint meeting. We also had a very knowledgeable speaker about high performance buildings and sustainability, specifically dealing with the LEED rating system. Although the presentation seemed geared toward contractors, there was information for everyone to take away in pursuing a LEED building ranging from where LEED documentation can be located in contract documents to extra time requirements for LEED building installation along with other points of emphasis. I hope to get the presentation up on our website in the near future for everyone to view.

Our meeting this month will involve solar energy for reheat and supplemental winter heat. These topics should discuss the benefits of using renewable energy to provide a means of building heat. This meeting should be a very interesting topic that I feel will not resemble anything close to what we have had in the past.

Upcoming this month we will also be introducing something new to our Wisconsin Chapter this year, as we unveil our first tabletop presentation prior to our meeting. Our tabletop presentation will be performed by Bill Armstrong of Fluid Handling, as he shows off their newly acquired Combustion Systems Inc. This will be a new feature at some of our monthly meetings for interested parties, as they will have a chance to promote new information to our members. I hope this will be a great way for our tabletop presenters to get their word out, while also allowing our members to interact and learn some new things along the way. If you are interested in signing up for a future tabletop presentation, please let me know.

Finally, I would like to once again extend an invitation to anyone that is interested in volunteering some time to ASHRAE to let me know. Volunteers within our organization are extremely important and are how the majority of our work is completed. I would love to see some new faces helping out with our activities, as we have committees from refrigeration to planning our upcoming CRC to student activities. I guarantee there is something we could use a little help on and a couple of hours a month or more would go a long way in making our organization a better one.

I look forward to seeing you at the next meeting!

A New Kind of Christmas Party —We Would Love to See You! *From Your Editor*

We have a dedicated group of Governors who continue to rebuild the Wisconsin Chapter into what it could and should be.

Toward that end, our Vice President, Lorisa Behrens, at the request of the board, has put together a different kind of Christmas party than we have had in the past. This year's version will be a bit less formal and it will be less expensive so that more of you might attend. If you are a regular ASHRAE attendee, please consider asking a co-worker in your company or a customer involved in our business. If you have not attended an ASHRAE meeting for a while, why not make this your "first time back"? Brant Holeman, our membership chair, eloquently stated the benefits of being involved in ASHRAE in the last Badgeraire.

Beyond his reasons, just knowing others in our industry on a social basis leads to better understanding when tough issues arise. You know the old saying about it being a pleasure to do business with friends, so consider

Christmas Party (Continued)

attending the Christmas party and meeting other members on a social basis.

Details follow:

Date: 12/15/07

Place: The Intercontinental Hotel

At 139 E. Kilbourn (Used to be the Windham)

Times:

- Social Hour: 5:30 P.M.
- Dinner: 6:30 P.M.
- Comedy Sportz: 7:30
- Registration: www.ashrae-wi.org or call Maggie Roll at 414-778-1700
- Dress: Business Casual to Semi Formal (Coat/Tie). No Jeans
- Cost: \$50.00/Person

Wisconsin Chapter Membership

by Brant Holeman, Membership Chair

Greetings! Please allow me to introduce myself. My name is Brant Holeman and I am your 2007-2008 Wisconsin Chapter Membership Promotion Chairman. What does that mean for you? Well, have you had trouble managing your membership in the past? Are you receiving your copies of the Handbook and your ASHRAE Journal magazines? I'm here to help! It is my duty to recruit and retain members of our organization. I'm also here to answer your questions, advise you of your benefits and encourage Associates to upgrade to Members when they are eligible to do so. I'm interested in helping foster mutually beneficial relationships between working professionals and the society. Plant managers, engineers, architects, contractors, facilities planners, students, public utilities, building officials, professors, sales representatives, manufacturers and anyone interested in the HVAC&R industries is welcome to attend our meetings and see what we have to offer. I'm looking forward to working with you all this year and encourage you to contact me with any questions

or comments. My email address is brantholeman@gmail.com and our new chapter website has been updated to include a section to help manage your membership. I hope to see you at the next meeting, but in the meantime, check out the following vital statistics from our chapter!

- The Wisconsin ASHRAE Chapter consists of 393 active members representing 177 unique companies and organizations.
- 94% of our members live or work within 80 miles of the City of Milwaukee.
- We have:
 - 181 Members
 - 133 Associate Members
 - 38 Life Members
 - 28 Student Members
 - 6 Affiliate Members
 - 4 Associate Life Members
 - 1 Fellow Life Member
 - 1 Retired Associated Member and
 - 1 SBA Member
- The average Wisconsin Chapter member is 48.5 years old.
- The most popular member name is James!



"science for sustainable environments"

Research Promotion: Navigation for a Sustainable Future

Last month's issue highlighted the strategic directions for ASHRAE Research. To see how your contributions are used, check out the October Issue of the ASHRAE Journal. It has the "2007-08 ASHRAE Research Report" (p46-56).

In particular, the article provides a concise summary of the 67 active projects funded by your contributions. My bet is that a brief review will reveal

several that relate directly to technical challenges at you, your company, or your clients are facing. Mine are those dealing with indoor environments, the impact on occupants and energy costs. Let me know what you find.

Also, check out the 2006-2007 Investor Honor Roll. It acknowledges the more than 6,200 donors who invested in our industry through ASHRAE Research last year.

There are many options for your contribution, by levels of investment; company and individual contributions; contributions to research, education, or unrestricted; memorials or endowments. All investments are appreciated, no matter how small! Contact me with any questions on the best approach for you and your company.

WI Chapter RP Campaign 2007-08

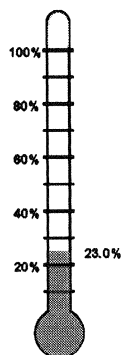
Here's an idea for you to consider: Recognize technical or professional excellence within your company by endowing an ASHRAE Research Contribution in the name of a person or team. (There are memorials, but please don't wait until they are gone to recognize these fantastic people.)

Their excellence will be recalled annually as an Honor Roll level contribution to ASHRAE Research in perpetuity. These endowments are recognized in the Research Report issue of the Journal.

The minimum contribution for endowment this year is \$2,300. That may sound like a lot, but consider raising it through a combination of company and individual contributions. Team building is critical to business success and recognizing excellence is a basic step. An endowed contribution will enable your team to recall the lessons learned from your associate for years to come – in the leading building technology forum in the world!

Please let me know if you are interested.

2007-2008 Campaign Wisconsin Chapter Donors



| | |
|--|---------|
| ASHRAE WI Chapter Research Promotion 2007 – 2008 Campaign November Report | |
| Goal: | \$5,000 |
| Contribution: | \$1,150 |
| Achievement: | 23.0% |

| |
|---|
| Golden Circle (\$10,000 and above) |
| ASHRAE Partners (\$5,000 - \$9,999) |
| ASHRAE Associates (\$2,500 - \$4,999) |
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| Honor Roll Donors (\$100 - \$249 Individual/\$150 - \$249 Business) Jude Anders, Shoreline Concepts, LLC Bill Armstrong, Fluid Handling, Inc. Jason Gerke, Graef Anhalt Schloemer & Associates, Inc Steve Hagman, Christopher Kidd & Associates Bernard Radoszewski, Air Technologies, Inc. |
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| Table Top Participants Fluid Handling, Inc. (November) Hydro-Flow Products, Inc. (January) |

Regards,
Jude Anders (judeanders@sbcglobal.net)
Wisconsin Chapter Research Promotion Chair



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Upcoming Meetings

| MEETING DATE / THEMES | LOCATION | TOPIC | SPEAKER |
|--|---|--|--|
| Wednesday, November 14, 5 PM | Buca di Beppo | Using Solar Energy for Reheat Ststems | James McCarthy, Viessmann Manufacturing |
| Saturday, December 15, 5:30 PM | Intercontinental Hotel | Holiday Party | None |
| Thursday, January 10 Luncheon Meeting | MSOE | Wisconsin Code | Randy Dahmen |
| Thursday, February 21 5 PM | UWM Central Heating/Chilling Plant Tour | | UWM Plant Staff |