

# THE BADGERAIRE

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



Shaping Tomorrow's  
Built Environment Today

## October 18, 2012 Liquid Desiccant Technology

When: 5:30 Gather, 6:00 program

Where: Crowne Plaza Milwaukee Airport 6401 South 13<sup>th</sup> Street, Milwaukee WI

Topic: Liquid Desiccant Technology

The presenter will discuss what liquid desiccant technology is, the advantages, and typical uses. The presenter will also provide examples of projects utilizing this technology to dehumidify their facilities.

Prior to the technical meeting we will be presenting certificates to this year's Gus Larson Scholarship recipients.





President's Column Oct-Sept 2012

Another summer has flown by hopefully all your designs and equipment performed well in the record setting heat. I am looking forward to a productive and educational year for our chapter. There are a few goals that I have set for this year.

1. Further grow our student chapters.
  - a. We are sponsoring a senior design studio at MSOE to compete in the ASHRAE student design competition. Members of the board of governors will be participating as a client using the ASHRAE student design competition as a guideline. We will be selecting one of the senior design sections to enter into the national design competition. Any member of the local chapter that is interested in getting involved as the reviewing client is welcome to contact myself or Jason Leffingwell to learn more about it.
  - b. We are looking for local Alumni from the Colleges and Universities in the area to help us reach out to their alma mater and to serve as an ambassador and point of contact between our ASHRAE chapter and the school. Please let myself or Dave Schneider know if you are interested in this opportunity
2. Provide a resource for continuing education credits for our members. Now that Wisconsin is requiring registered professional engineers to get 30 professional development hours to renew a license, we are planning on becoming a resource to help provide some of those hours through chapter meetings, seminars and technical sessions. Just being a member can earn you 2 hours!

3. Finally I am looking for people who are interested in helping out with the Mike Stram golf outing. The golf outing is our major fund raiser for our scholarship and we are asking for members or non-members who have suggestions for revitalizing the event to please contact me.

Last but definitely not least, I would like to acknowledge and thank the current board members for their hard work and effort to make this a great year. I would especially like to note the new members and changing positions on the board.

- Dave Schneider is our new Student Activities Chair
- Andrew Brophy is our new YEA Chair
- Christopher Staab is our new Membership Promotion Chair
- Jared Wasielewski is our new Treasurer
- Ryan McNally is our new Chapter Technology Transfer Chair(Ryan was the Student Activities/YEA Chair)
- Joe Carmichael is our new Webmaster/Electronic Communications Chair(Joe was the Membership Promotion chair)

I would also like to acknowledge Maggie Moninski. You may know her as Maggie Roll, she got married over the summer. Maggie is now the Regional Vice Chair for CTTC(Chapter Technology Transfer). With the increased responsibility of the regional position, Maggie has decided to step down from our local board of governors. We wish her good luck in her new role in ASHRAE.

I hope you are looking forward to the new year. If you have any questions or comments please contact me via the information listed below.

Last month's tour of the Milwaukee Art Museum was a great chance to see the mechanical systems that serve one of Milwaukee's Architectural Icons. The tour was informative and we toured the chiller plant under the Mason Street Bridge. I would like to

thank Dan Kehrer for being our tour guide and providing insight into the operations and features of the building.

Thanks and I hope to see you at the next meeting. Tim

Timothy Pann  
Chapter 48 President  
P: 262.654.6630  
F: 262.654.6404  
M: 414.899.5097

### **Membership Promotion**

Our ASHRAE Chapter is always looking for more members. Please consider inviting a guest to join you in coming to any of the upcoming meetings. Show off what a great organization this is!

Remember to get your dues paid before the end of the year so you can take the tax deduction. It's just one more benefit of being an ASHRAE member.

### **Are You An Associate Who Wants to Advance to Member?**

To advance from Associate to Member, you must update your ASHRAE bio online, and notify [membership@ashrae.org](mailto:membership@ashrae.org) you have updated your bio and wish to be considered for grade advancement.

### **Reasons to Advance ASHRAE Membership:**

1. Prestige
2. Chapter recognition through newsletter
3. Chapter recognition at meeting
4. To serve on a technical committee
5. To serve in a chapter officer role
6. To serve in a regional role

7. To qualify for ASHRAE Fellow and other Society awards
8. You can add Member ASHRAE to your email tag
9. Allows your chapter to shine among other chapters
10. Society recognition in Insights

### **Steps for updating your biography:**

1. Go to the ASHRAE home page and login;
2. Look for Member Central (Member Central is located under the top left-hand column below the Login box);
3. Click "Update Your Bio";
4. Click on the link "Edu. Pro. Reg" located in blue font above your name to add all of your educational history, relevant professional licenses and work history;
5. Confirm your contact information is current by clicking on "Contact Info";
6. Once you have updated your biography, send an email to [membership@ashrae.org](mailto:membership@ashrae.org) with your Member ID number (which can be found by clicking on "Bio Info") requesting advancement.

### **Standard 62.1 Public Review Drafts Available**

**These drafts are scheduled for a 30-day public review from September 14, 2012 to October 14, 2012:**

1. **BSR/ASHRAE Addendum b to ANSI/ASHRAE Standard 62.1-2010, *Ventilation for Acceptable Indoor Air Quality* (Advisory Public Review Draft)**

*A change proposal submitted to ASHRAE pointed out that the requirements for the quality of water used in humidifiers and water-spray systems could potentially be misinterpreted. In response, changes to the wording of Sections 5.12 and 5.12.1 are*

*being proposed that are intended to clarify the requirements and what water treatment chemicals may be used with these systems. In addition, when chemicals are added to boiler water, automated dosing systems must be employed to maintain chemical concentrations within acceptable limits. These requirements exist to reduce the risk of water treatment chemicals creating poor IAQ.*

**2. BSR/ASHRAE Addendum m to ANSI/ASHRAE Standard 62.1-2010, Ventilation for Acceptable Indoor Air Quality (First Public Review Draft)**

*This proposed addendum adds the National Standards for Total System Balance issued by the Associated Air Balance Council (AABC) as an equivalent method of balancing ventilation systems in Section 7.2.2 of Standard 62.1. This standard is widely recognized for HVAC&R system balancing.*

**3. BSR/ASHRAE Addendum n to ANSI/ASHRAE Standard 62.1-2010, Ventilation for Acceptable Indoor Air Quality (First Public Review Draft)**

*This proposed addendum increases the filter requirements from MERV 6 to MERV 8. This will reduce the potential for particulate deposition on cooling coils that could lead to biological or other contamination on the coils. In addition, it brings the requirement inline with ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, Standard for the Design of High-Performance Green Buildings.*

*This proposed addendum adds requirements to the IAQ Procedure for determining minimum ventilation rates which require consideration of the combined effects of multiple contaminants of concern on individual organ systems. This “additive” effect is already implicit in the Ventilation Rate Procedure. This is intended to improve the IAQ Procedure by requiring consideration of these additive effects that are well established in the literature for many organ systems. The change requires identifying those contaminants of concern which act on individual organs and identifying those contaminants as a “contaminant mixture of concern.”*

These public review drafts are available for review and comment on the ASHRAE website at <http://www.ashrae.org/standards-research-technology/public-review-drafts>

**Wisconsin Environmental Balancing Beareau Seminar November 5, 2012**

**See the last page for more information**

**These drafts are scheduled for a 45-day public review from September 14, 2012 to October 29, 2012:**

**1. BSR/ASHRAE Addendum j to ANSI/ASHRAE Standard 62.1-2010, Ventilation for Acceptable Indoor Air Quality (Second Public Review Draft)**

## Upcoming Chapter Meetings-Mark Your Calendars!

Meeting Date	Topic	Speaker	Location	Time
10/18/2012	Liquid Dessicant	Advantix	Crowne Plaza	6:00
11/15/2012	Focus On Energy New rules & programs	TBD		
12/20/2012	Christmas Party	NA	TBD	Evening
1/17/2013	Code Refresher	Randy Dahmen	MSOE	Lunch
2/21/2013	Efficient Steam Design and common design issues	Tim Parbs	TBD	Evening
3/21/2013	Full Day Heathcare seminar	TBD	MSOE or Marquette	Lunch
4/18/2013	Integrated Design	TBD	TBD	TBD
5/16/2013	ASHRAE Building Energy Rating	Terry Townsend	TBD	TBD

### Other Chapters

For details regarding *surrounding chapter* meetings see:

- o Northeast Chapter <http://www.newisconsinashrae.org/>
- o Madison <http://www.ashraemadison.org/>
- o Illinois [www.illinoisashrae.org.](http://www.illinoisashrae.org)

### Wisconsin Chapter Officers and Committee Chairs

President	Tim Pann
Vice President	Jason Leffingwell
Secretary	Jason Nenonen
Treasurer	Jared Wasielewski
Refrigeration Chair	Phil Golden
Membership	Chris Staab
Research and Promotion Chair	Randy Sikkema
Student Chapter Coordinator	Dave Schneider
Historian	Open
Newsletter Chair and Editor	Brian Lynch
Website, Badgeraire Distribution	Joe Carmichael
Director	James Burke
Director	Bill Armstrong
Director	Justin Patrick

## **A HISTORY OF ASHRAE RESEARCH**

It is the research program that sets ASHRAE apart from other professional societies and association of its kind. ASHRAE's Handbook series, technical programs, standards, and special publications all utilize the results of Research.

An interest in research can be traced to the very roots of this Society. At the first annual meeting of the American Society of Refrigerating Engineers (ASRE), one of ASHRAE's predecessor societies, an initial order of business dealt with research. They passed a resolution recommending that the U.S. Department of Agriculture equip and maintain a cold storage plant for the purpose of research. They also appointed a committee of five members to work on the establishment of a standard unit or "ton" of refrigeration.

In a similar vein, ASHRAE's other forbearers, the American Society of Heating and Ventilation Engineers (ASHVE) recognized that "the practice of heating, ventilating and air-conditioning was more of an art than a science." In 1971, ASHVE took steps to correct this by initiating a Research Bureau. This facility was located in three rooms in the US Bureau of Mines Experiment Station in Pittsburgh, PA. Research was conducted here from 1919 until 1944.

From these humble beginnings to a current \$2 million annual budget and 70-80 research projects being conducted at once, ASHRAE Research has definitely come a long way in advancing the arts and sciences of HVAC&R.

# RESOURCE PROMOTION CAMPAIGN SETS ALL TIME RECORD! \$2,191,756

Thanks to our Chapter Leaders,  
Justin Patrick, Jason Leffingwell, Timothy Pann & Randy Sikkema for setting the  
Pace by being a Full Circle Chapter by Contributing on an Honor Roll Level.

We want to Thank all the ASHRAE RP Investors from the Wisconsin Chapter for  
2011-2012 that helped make this new goal possible.

<b>\$1,000 to \$2,499</b>	
Desert Aire Corp.	
<b>\$500 to \$999</b>	
Carrier Corporation – UTC	
<b>\$250 to \$499</b>	
Gregg C Achtenhagen	James M Boland
Fluid Handling Incorporated	JMB & Associates LLC
McCotter Energy Systems, Inc	Edward L Tonn, Jr.
<b>\$150 - \$249</b>	
Hydro- Flo Products, Inc.	Justin K Patrick
Martin Petersen Company	Bernard Radoszewski
<b>\$100 to \$149</b>	
Robert M Fritchen	Jason M Leffingwell
Geoffrey McLaughlin	Jason Nenonen
Timothy C Pann	Randy D Sikkema
Vyron Corporation	
<b>Other Investors</b>	
Michael J. Anderson	Dave Carlson
Rick L. Coleman	Robert M. Fritchen
Lawrence W Gramza	Parmjit S Jaspal
Stephanie M. Maier	Michael Mamayek
Andy Meier	Ryan McNally
Diego Mauricio Palacios	Chris Reininger
Thomas Shipshock	Christopher Staab
Andrew J Steele	

**TO ALL DONORS AND VOLUNTEERS...THANK YOU!**



# Wisconsin Environmental Balancing Bureau Seminar November 5, 2012

Midway Hotel, Brookfield  
Symposium  
1005 S. Moorland Rd.  
Brookfield, WI

---

- 8:15 a.m.            **WEBB Members: Annual Meeting**
- 8:30 a.m.            Gerard Iacouzze – McGill Air Flow  
                          *Good, Better and Best Duct Design*
- 9:45 a.m.            Break
- 10:00 a.m.          Dan Brusewitz – Hydro-Flo  
                          *ECM Motors and Pumps*
- 11:30 a.m.          Lunch
- 12:30 p.m.          Len Damiano – EBTRON  
                          *Outside Air Intakes/Survey of Airflow Measurement Devices*
- 2:15 p.m.            Break
- 2:30 p.m.            Robert Walker – Belimo  
                          *It Just Got Easier to Monitor Energy Consumption in HVAC*
- 4:00 p.m.            Conclusion

Note: 6 PDHs available for Engineers and Architects

---

## **FEES:**

Certified Supervisor/Designated Rep from Member Firm:	\$ 60.00
Add'l. Employee of Member Firm:	\$ 40.00
Late registration (after Oct. 30)	\$ 85.00
Non-Members	\$ 160.00

### **Mail Registration & Make Checks Payable to:**

Wisconsin Environmental Balancing Bureau (WEBB)  
10427 W. Lincoln Avenue, Ste. 1600  
Milwaukee, WI 53227

Any questions:  
Call (414) 543-7622

### **Registration:**

Name(s): \_\_\_\_\_

Employer: \_\_\_\_\_

Company Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Company Phone: \_\_\_\_\_ email : \_\_\_\_\_

(For confirmations only)







The Energy Center University offers continuing education for commercial and residential building professionals. Visit [www.ecw.org/university](http://www.ecw.org/university) for the most up-to-date list of events and register today.

#### **[Cold climate homes: getting to zero defects](#)**

Get the facts, including tested results and unbiased information about techniques, Wisconsin code and new technologies. [Learn more.](#)

October 24, 2012 | Eau Claire, WI | Residential On-location  
October 25, 2012 | Sun Prairie, WI | Residential On-location  
\$129 (Use promo code: ECTWENTY to receive \$20 discount)

#### **[Natural gas vehicle trends, technologies and implementation](#)**

Explore the economic trends behind natural gas vehicle transitions and conversions. Identify and understand appropriate applications; vehicle, sales, service and fueling options and availability; facility modification requirements; and payback and life-cycle-cost savings opportunities. [Learn more.](#)

October 31, 2012 | Eau Claire, WI | Commercial On-location  
November 1, 2012 | La Crosse, WI | Commercial On-location  
Free

#### **[Existing building commissioning: process, techniques and tools](#)**

Join one of the most well-known authorities in retro-commissioning, Portland Energy Conservation, Inc., for a review of existing building commissioning fundamentals including keys to success followed by an in-depth look at technical perspectives, common findings and measures that solve energy and comfort related concerns, as well as tools and resources. [Learn more.](#)

November 13, 2012 | Eau Claire, WI | Commercial On-location  
November 14, 2012 | Middleton, WI | Commercial On-location  
\$169 (Use promo code: ECTWENTY to receive \$20 discount)