

# THE BADGERAIRE

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



Shaping Tomorrow's  
Built Environment Today

## **March 21, 2013: RTU Commissioning without refrigerant gauges**

### RTU Commissioning without refrigerant gauges

Join us for a hand's on classroom presentation for rooftop unit commissioning. The presentation/class will be held at 6:00pm at the Gateway Technical College Kenosha Campus. 3520 - 30th Avenue, Kenosha WI 53144 at the technology building Room T106. The presentation will cover:

1. Electric voltages/amps and why they are very important
2. Belt tensioning of fans and what to look for with pulley alignment
3. Refrigeration cycle review and steps to verify proper system operation and charge
4. Review the anatomy of a rooftop unit in Gateway's state of the art training facility.

The presenter for this meeting will be Gateway Technical College Instructor Tom Niesen. Mr. Niesen has been involved in the HVACR field for over 35 years. Through his career he has been a contractor for residential, commercial and industrial refrigeration service. He has done R&D work for Command Aire (Heat Pump Div. of Trane) and Packless Industries (a manufacturer of tube in tube heat exchangers used throughout the geothermal industry). Tom has been with Gateway as the HVACR Lead instructor and has been intricately involved in establishing Gateway's HVACR A.A.S. degree program and for the last 4 years as the Alternative Energy Instructor/Div Chair. Currently he splits his time between teaching advanced topics for the HVACR degree program and as the Geothermal Lead at Gateway he is training students in the newly created GeoExchange/HVACR AAS Degree program. Tom is member of ACCA, ASHRAE, IGSHPA and NGWA and is a certified IGSHPA Fusion Technician, Installer and Driller.

<http://www.ashrae-wi.org/reservations.html>





### President's Column January – March 2013

The year keeps marching on & it's time to put those snow shovels away and look forward to warmer times. It is also a good time to start thinking about getting your golf or trap shooting team together for the annual ASHRAE golf outing and 1<sup>st</sup> annual trap shooting outing on June 3<sup>rd</sup>. Before you get the clubs out we also have some great topics lined up for the coming months. We will be visiting the Gateway Kenosha campus to listen to Tom Niesen present Rooftop unit commissioning and trouble shooting. In April we will hold our 1 day research promotion seminar. The seminar this year will be themed around healthcare and hospital mechanical systems. Our final program of the year will be on ASHRAE's building energy rating system with our guest distinguished lecturer Terry Townsend.

Also coming up is our annual Chapter Regional Conference which will be held in LaCrosse this year May 2<sup>nd</sup> -4<sup>th</sup>. The theme this year is Sustainability Runs Through it. There will be 3 education tracks, Tours of Trane, Multistack and a UW-L LEED building. The organizers also have things to do and tours for companions who may not be into a tour of a Trane factory. For full details and registration please visit the official CRC website

I would like to thank Tim Parbs for an outstanding presentation on Steam system basics and common design pitfalls. Tim has a great way of boiling down the art of steam heating to a concise and logical presentation. If you ever have a mysterious steam question I highly recommend Tim's expertise.

Finally I want to say congratulations to our local chapter member Margaret Matheson Ph.D. for being one of the 20 nominees in the ASHRAE New Faces of Engineering recognition. Margaret is an Assistant Professor of Mechanical Engineering at Marquette.

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

Timothy Pann  
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### **Upcoming Training sessions from the Energy Center of Wisconsin**

#### **ASHRAE Technology Awards – Wisconsin Projects**

Each year ASHRAE awards its members that develop innovative building designs applied to occupant comfort, indoor air quality and energy conservation. The designs incorporate ASHRAE standards for energy management and indoor air quality. We are currently looking for candidates from the Wisconsin Chapter that incorporate those unique and innovative design ideas. Categories include residential (new and existing), public assembly (new and existing), commercial buildings (new and existing), institutional buildings (new and existing), includes educational facilities and other institutional), health care facilities (new and existing) and industrial facilities or processes (new and existing). Please use the following link for more information on the awards program: [www.ashrae.org/cttc](http://www.ashrae.org/cttc). Winners for each category will be determined by the Wisconsin Chapter Board of Governors. The winner in each category will be eligible to be submitted to the regional and national level to showcase projects designed by Wisconsin Chapter members. Performance must be proven through one year of verified operating data.

Please submit your award applications to the Wisconsin Chapter CTTC Chair Ryan McNally ([ryan.mcnelly@exp.com](mailto:ryan.mcnelly@exp.com)) by March 15<sup>th</sup>, 2013.

**Marquette University Assistant Professor Nominated as ASHRAE New Face of Engineering**

ATLANTA – Margaret Mathison, Ph.D., is one of the 20 nominees received by ASHRAE for the New Faces of Engineering recognition program.

The program, part of National Engineers Week (NEW) and co-sponsored by ASHRAE, promotes the accomplishments of young engineers by highlighting their engineering contributions and the resulting impact on public welfare. The program targets those age 30 and younger. The top nominee from each engineering society represented on the NEW committee will appear in a full-page ad in *USA Today* during National Engineers Week, Feb. 17-23, 2013.

ASHRAE created the New Faces program in 2003, when it served as lead society for National Engineers Week.

Mathison is an assistant professor of mechanical engineering, Marquette University, Milwaukee, Wis.

She holds a Doctor of Philosophy in Mechanical Engineering, Iowa (Ames) State University; Bachelor of Science in Mechanical Engineering, Purdue University, West Lafayette, Ind.

As an educator, Mathison provides future engineers with the skills necessary to address society's greatest challenges, such as the need for clean energy. As a researcher, she works to reduce the environmental impact of HVAC&R equipment, which accounts for a significant percentage of the United States' energy usage. She has developed computer models of the compressors used in air-conditioning and refrigeration equipment to evaluate potential energy saving modifications, which not only provide cost savings to consumers but also reduce harmful emissions from energy generation. She received the

Student Best Paper Award for her contribution to the 2010 Compressor Engineering Conference at Purdue.

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow's built environment today

**Continuing Education Classes Available from UW-Madison**

**The University of Wisconsin-Madison, Department of Engineering Professional Development**, announces some of its winter/spring short courses:

Building Enclosure Commissioning Process for Delivering Quality Constructed Projects, March 11-15  
Fundamentals of HVAC, March 13-15  
Fundamentals of Energy Auditing, March 25-29  
DDC Controls, April 8-12  
Testing, Adjusting and Balancing, April 15-19  
Commissioning Process for LEED Projects, April 25-26

<http://epd.engr.wisc.edu>

**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.

### **Membership Roster Updates**

Delinquency in Society dues is very high. Please remember that dues should be paid in August. We understand that historically, dues were paid at the end of the year so please update whomever is responsible for submitting your dues to the national chapter so that they are aware of the August due date. If you are no longer a member and do not wish to be, please update your bio online and alert the National Chapter. Delinquency reflects poorly on the rest of the chapter, so please, pay your dues or formalize your departure from ASHRAE.

## Upcoming Chapter Meetings-Mark Your Calendars!

Meeting Date	Topic	Speaker	Location	Time
3/21/2013	RTU Commissioning	Tom Niesen	Gateway T.C. Kenosha	6:00PM
4/18/2013	Full Day Healthcare seminar	TBD	MSOE or Marquette	Full Day
5/16/2013	ASHRAE Building Energy Rating	Terry Townsend	TBD	TBD
6/3/2013	ASHRAE Golf Outing	TBD	TBD	TBD

### Other Chapters

For details regarding *surrounding chapter* meetings see:

- o Northeast Chapter <http://www.newwisconsinashrae.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
YEA	Andy Brophy
Director	James Burke
Director	Bill Armstrong
Director	Justin Patrick

Wisconsin Chapter of ASHRAE