



INFORMAIRE

JOURNAL OF MADISON, WISCONSIN CHAPTER
AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS

VOLUME XXXXIII NO. 4

December 2010

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DECEMBER *Refrigeration*

Submitted by: Manus McDevitt

- DATE:** MONDAY, December 13th, 2010
- LOCATION:** Nakoma Golf Club
4145 Country Club Road, Madison, WI 53711
- TIME:** 5:00 to 5:50 p.m. Technical Ses-President'sLounge
5:15 to 6:00 p.m. Social Gathering-Main Bar
6:00 to 6:45 p.m. Meeting & Dinner
6:45 to 7:45 p.m. **Program Presentation**
- TOPIC:** **Waterside Heat Recovery in HVAC Systems**

In response to an energy crisis and an oil embargo, the 1970's was a decade where design engineers recovered heat from the chiller's condenser for use in other portions of the building or process. At that time Trane published a number of newsletters and manuals on heat and energy recovery. During the building booms of the 1980's and 1990's interest in energy waned -- hence heat recovery was used less. As energy costs have again increased and there is a raised awareness of environmental issues, today we see interest in heat recovery - such as that from the condensers of water cooled chillers. A problem is that many of the people who designed these systems are retired, so there is unfamiliarity in the systems. This presentation gives information that should help the design engineer properly determine if heat recovery is justified, and aids in selecting equipment, system configurations and controls to ensure proper operation.

SPEAKER: **Mick Schwedler, PE, LEED® AP**



Mick has been involved in the development and support of HVAC systems for Trane since 1982. As manager of applications engineering his areas of expertise include system optimization (in which he holds patents) and chilled water system design. His primary activities include assisting designers in proper application of Trane products and systems in buildings, and writing system application manuals and newsletters. In addition, he has presented technical information to thousands of engineers through Trane's Engineers Newsletter Live satellite broadcast series. Mick has given technical seminars throughout North America, as well as in the Far East and South America, and

PRESIDENTS MESSAGE

Submitted By: Matt Heil

We hope everyone had a great Thanksgiving and you were able to spend time with family and friends.

This year's economic situation has been just as challenging as last year's. The struggles of the U.S. economy have touched almost everyone in the industry. There are challenging goals directly associated with our industry related to energy efficiency, conservation, carbon footprint, green design, zero energy design, global warming, and our industry impact our environment. As this year comes to the end, we are tentatively optimistic that the economy has turned in the right direction.

Speaking of zero energy design; this year's winter conference is located in **Las Vegas, Nevada January 29-February 2nd**. If you need more information or a location to sign up for the ASHRAE winter conference please contact me.

This month's theme is refrigeration. Manus has put together a great program on that theme. Mick Schwedler will be speaking on both small chilled water systems (technical session) and waterside heat recovery system (chapter topic). We look forward to seeing at the meeting.

I look forward to see you on December 13th,

Matt Heil

2010-2011 Madison ASHRAE Chapter President

MEMBERSHIP

Submitted By: Dan Bergmann

	November 2010
Members	254
Students	31
Delinquency	20

We would like to congratulate **Kevin Otte, Blair Willcox, Steve Dingle, and Cameron Klein** as our new ASHRAE members. In addition would like to congratulate **Michael Murphy and Bryan Block** as our new ASHRAE student members. Please help us to make them feel welcome to our organization. If you know someone who is interested in joining ASHRAE or wants to learn more about our local Madison chapter please invite them to the next ASHRAE

published a number of papers within the industry. Prior to his work with Trane, Mick received his MSME from the University of Wisconsin Solar Energy Laboratory and BSME from Northwestern University.

A recipient of ASHRAE's Distinguished Service Award, Mick was Chair of SSPC 90.1, responsible for ASHRAE/IESNA 90.1-2010, "Energy Standard for Buildings Except Low-Rise Residential Buildings." He is past chair of TC 1.5 –"Computer Applications," and has served on ASHRAE's Personal Development Committee and Code Interaction Subcommittee. From an environmental perspective, Mick authored portions of the ASHRAE Green Building Guide and has served on technical and educational groups for both the New Buildings Institute and the US Green Building Council's LEED® products.

Please RSVP by [noon, Thursday, December 9th](#)

[REGISTER 12-13-10](#)

When reserving, please note your dinner choice:

- **Stuffed Game Hen**
- **Roast Pork Loin (w/Shiitake Calvados)**
- **Grilled Portabella Mushroom Fettuccine**

The website is preferred for reservations, but you can also contact Kay Nachreiner at madisonashrae@gmail.com or by phone at (608) 836-4488 ext 10.

*The registration fee for attending this presentation is \$30 for non-members and \$20 for ASHRAE Madison Chapter members, which includes the meal. There is no cost for students. Please make checks payable to **Madison ASHRAE Chapter**.*

We have experienced an unusual high number of "no shows" for reservations. These extra meals costs the chapter as the facilities will charge for the minimum number we provide from the RSVP. We have been soft on the collection of no-show's. If the practice continues, we will need to follow through on these expenses. Please be courteous and contact us if you reservation has changed.

TECHNICAL SESSION

Submitted By: Manus McDevitt

The Small chilled water systems may be the best fit in many applications. What can be done to allow them to be cost effective, operate efficiently, maintain reliability, and run simply?

This non-commercial presentation covers these topics as well as ASHRAE 90.1 requirements and modeling of small chilled water systems and gives practical implementation tips.

WEBSITE UPDATE

Submitted By: Zach Obert

The Madison ASHRAE website will be undergoing a redesign in the near future, as it has been a long time since any major changes have been made. We are evaluating adding some new features, like a dynamic calendar, a dedicated student section, an updated chapter committee section, and additional features related to research promotion. In addition, we are looking at updating the graphics and the general look & feel of the website. If you would be interested volunteering your web design / programming skills to help with this effort, please contact Zach Obert at zacho@weccusa.org.

Thanks,

meeting.

The following chapter members advanced their membership from Associate to Member: **Mike Gall, Bill Talbert, and Dan Bergmann**. The Madison chapter has (107) Associate members many of which could be eligible for grade advancement.

Are You An Associate Who Wants to Advance to Member?

Requirements:

Member shall have the equivalent of 12 society approved years (points) of experience which can be any combination of:

1. Completed education beyond high school. ABET accredited schools earn 6 points (each year of a 4 year program is 1.5 points).
2. Work experience. Each year of professional experience earns 1 point. Work experience must be related to ASHRAE fields.
3. Professional Engineering License. PE License is worth 3 points.

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

If you know of anyone not receiving the Monthly INFORMAIRE please contact Mark Miller to be placed on the email distribution list.

MEETING MINUTES

Submitted By: Sharon Gould

The latest approved meeting minutes are available below. Note, several BOG meeting minutes are included from last spring, which are now available.

[Madison Chapter Minutes 10-11-10](#)

[Madison BOG Minutes 10-25-10](#)

Thanks. *Sharon Gould*

ASHRAE REGION VI

Submitted By: Mark Miller

Visit the Region VI Website www.ashrae6.org to find out what is happening at the region and from Society. The region is looking for an Electronic Communications Regional Vice Chairman. Anyone in the Madison Chapter interested in knowing more about this Society level position?

ASHRAE ANNOUNCEMENTS

Submitted By: Mark Miller

ASHRAE announcement which have been released this past summer are outlined below. To find out more about them, search them out at ashrae.org/pressroom/:

- **2010 Energy Standard Provides for 20 Percent-Plus Energy Savings**
- **ASHRAE, IES Join Forces on Residential Energy Standard**
- **Winter Conference Technical Program to Focus on Net-Zero Energy Design, Greening the Industry**
- **International Code Council (ICC) Takes Action on ASHRAE Proposals**
- **ASHRAE Awards NIST Grant to Study IAQ in Retail Stores**
- **New ASHRAE GreenGuide Features Guidance on Sustainable Planning, Carbon, Water Efficiency and Existing Buildings**

Six Professional Development Seminars and 14 Short Courses are offered to help industry professionals stay up-to-date on industry trends. ALI offers a new course on building energy modeling that focuses on HVAC&R systems and updates to courses covering

Zach Obert

REGION VI CRC

Submitted By: Scott Hackel

HOLD THIS DATE: April 15th, 2011

Region VI will be holding their Chapter Regional Conference on April 14th, through 16th, 2011 in Green Bay, WI. The Northeast Wisconsin Chapter is doing a great job putting together this year's CRC with the sudden change of hosting Chapter. They are putting together great technical sessions with three tracks on the themes of Energy Modeling, Smoke & Fire and Professional Development. Put this date on your calendar and look for details in your e-mail. Support the [NE Wisconsin Chapter](#) and plan to attend for educational and professional development.

ASHRAE WINTER CONFERENCE

Submitted By: Mark Miller



The International Air-Conditioning, Heating, Refrigerating Expo®, held in conjunction with the Winter Conference, will run **January 31-February 2**. The Expo is held at the **Las Vegas Convention Center**, a short distance from the Hilton, the Conference headquarters hotel. In keeping with ASHRAE's goal of continuing education the Conference offers over **200 Professional Development Credits**, as well as Continuing Education Units, which can be applied toward a Professional Engineering license.

The technical program features more than **90 programs** and 300 speakers addressing the efficient use of energy in new and existing buildings, refrigeration updates, applications including data centers, laboratories, healthcare facilities, the real cost of zero-energy design and other topics related to design, standards, codes and professional skills. Nearly all of the technical program sessions will be approved for NY PDHs and by USGBC for GBCI CE hours for LEED professionals.

Standards 62.1 and 90.1 to reflect changes in the 2010 versions of these standards from previous versions. Additionally, ASHRAE continues to listen to the market and launches a sixth certification program in conjunction with the 2011 Winter Conference. This new program targets Energy Assessors/Energy Auditors and is appropriate for those individuals who perform energy assessments or audits for commercial, industrial or residential buildings.

This winter's technical tours spotlight how technology developed by ASHRAE members is practically applied to buildings and include the central plant at Planet Hollywood and MGM Center and Springs Preserve. When members are not attending courses at the Conference, observing the technological advancements featured at the AHR Expo or touring the local sustainable buildings there are numerous general tours such as Hoover Dam, Springs Preserve, the Venetian Grand Canal Shoppes, the Bodies and Titanic exhibits and the Las Vegas Strip.

Those who take part in the early-bird registration before December 31 have the opportunity to save up to \$195. Complete information is available at www.ashrae.org/lasvegas.

The graphic features the ASHRAE logo and the text "ASHRAE Holds the Sustainability Cards". It includes the ASHRAE tagline "Join ASHRAE at the 2011 Winter Conference, Jan. 29-Feb. 2, Las Vegas, Nevada" and the Zero ENERGY DESIGN logo with the acronym A S A F E B E T. The main text reads: "A full-house of professional and personal development activities are offered!". It lists several activities: "Technical Program", "Virtual Conference", "AHR Expo", "ASHRAE Certification", and "ASHRAE Learning Institute". A registration deadline is given: "Register before November 5 and SAVE! The early bird fee is \$505 (\$685 non-members)". The graphic also features a fan of playing cards (Ace of Clubs, Ace of Spades, Ace of Hearts, Queen of Spades, Queen of Clubs, Queen of Diamonds) and the website "www.ashrae.org/lasvegas".

NEWSLETTER CHANGES

Submitted By: Mark Miller

Along with the website changes, suggestions were made to link the newsletter to the website more smoothly. Therefore, a new format is being used to generate the newsletter as part of the e-mail, verses an attachment and provide a link to the website with a downloadable version. This is the first effort of this format. If you would like to make comments, feel free to e-mail your thoughts to mark.miller@mail.ashrae.org. Thanks.

ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference in Las Vegas, NV

2 WAYS TO REGISTER

Internet: www.ashrae.org/lasvegascourses

Phone: Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Full Day Professional Development Seminar

\$485/\$395 ASHRAE Member -- Earn 6 PDH/.6 CEU or 6 AIA LU credits

The Commissioning Process in New & Existing Buildings

Saturday, Jan 29 – 8:00 a.m. to 3:00 p.m.

Healthcare Facilities: Best Practice Design and Application

Saturday, Jan 29 – 8:00 a.m. to 3:00 p.m.

Complying with ASHRAE/IES Standard 90.1-2010

Saturday, Jan 29 – 8:00 a.m. to 3:00 p.m.

Implementing Energy Management in New and Existing Buildings: A Sustainable Activity

Saturday, Jan 29 – 8:00 a.m. to 3:00 p.m.

Integrated Building Design

Saturday, Jan 29 – 8:00 a.m. to 3:00 p.m.

Energy Modeling Best Practices and Applications: HVAC/Thermal

Tuesday, Feb 1 – 9:00 a.m. - Noon, 2:00 p.m. - 5:00 p.m.

Half Day Short Courses

\$159/\$119 ASHRAE Member -- Earn 3 PDH/.3 CEU or 3 AIA LU credits

Fundamental Requirements of ASHRAE Standard 62.1-2010

Saturday, Jan 29 – 8:00 a.m. to 11:00 a.m.

Understanding Air-to-Air Energy Recovery Technologies and Applications

Sunday, Jan 30 – 2:00 p.m. to 5:00 p.m.

Using Standard 90.1 to Meet LEED Requirements

Sunday, Jan 30 – 2:00 p.m. to 5:00 p.m.

Determining Energy Savings from Performance Contracting and LEED Projects: M&V

Monday, Jan 31 – 2:30 p.m. to 5:30 p.m.

Understanding & Designing Dedicated Outdoor Air Systems (DOAS)

Tuesday, Feb 1 – 9:00 a.m. to Noon

Successful Solar Applications for Commercial & Industrial Facilities

Tuesday, Feb 1 – 9:00 a.m. to Noon

District Cooling & Heating Systems: Central Plants

Tuesday, Feb 1 – 2:00 p.m. to 5:00 p.m.

Application of Standard 62.1-2010: Multiple Spaces Equations & Spreadsheet Calculation

Saturday, Jan 29 – Noon to 3:00 p.m.

Chilled Beam Technology for Excellent Indoor Climate in an Energy Efficient Manner

Sunday, Jan 30 – 2:00 p.m. to 5:00 p.m.

The Commissioning Process & Guideline 0

Monday, Jan 31 – 2:30 p.m. to 5:30 p.m.

Understanding Standard 189.1-2009 for High-Performance Green Buildings

Monday, Jan 31 – 2:30 p.m. to 5:30 p.m.

Low Temperature Radiant Heating & High Temperature Radiant Cooling Systems

Tuesday, Feb 1 – 9:00 a.m. to Noon

Avoiding IAQ Problems: Using ASHRAE's New IAQ Guide

Tuesday, Feb 1 – 2:00 p.m. to 5:00 p.m.

Designing Toward Net Zero Energy Commercial Buildings

Tuesday, Feb 1 – 2:00 p.m. to 5:00 p.m.

New Publications from ASHRAE

- Standard 189.1-2009: Standard for the Design of High-Performance Green Buildings (A Jurisdictional Compliance Option of the IGCC)*
- Standard 189.1-2009 User's Manual (A Jurisdictional Compliance Option of the IGCC)*
- ASHRAE GreenGuide 3rd Edition – The Design, Construction, and Operations of Sustainable Buildings*
- ASHRAE Standard 90.1-2010: Energy Standard for Buildings Except Low-Rise Residential Buildings*
- ANSI/ASHRAE 55-2010 – Thermal Environmental Conditions for Human Occupancy*
- ANSI/ASHRAE 62.2-2010 – Ventilation for Acceptable Indoor Air Quality in Low-Rise Residential Buildings*
- ANSI/ASHRAE 62.1-2010 – Ventilation for Acceptable Indoor Air Quality*

Package:

- ANSI/ASHRAE 15-2010 – Safety Standard for Refrigeration Systems*
- ANSI/ASHRAE 34-2010 – Designation and Classification of Refrigerants*

Visit www.ashrae.org/bookstore to order

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PROGRAM SCHEDULE

	Topic	Location	Speaker (s)	Technical Session	Theme
Sep 13	How ASHRAE 90.1-2010 Will Affect Your Projects	Quality Inn, Fitchburg	Jeff Boldt	N/A	
Oct 11	Gas Detection, Control, and Alarming	UW Engineering Hall	Ryan Hoger	Demand Control Ventilation	Students Night
Nov 8	Measurement and Verification	Erdman Company	Mike Meteyer	N/A	Research Promotion Membership Promotion
Dec 13	Waterside Heat Recovery	Nakoma Country Club	Mick Schwedler	Small chilled water systems	Refrigeration
Jan 10	Focus On Energy	TBD	Zach Obert and Geoff Overland	N/A	
Feb 14					
Mar 14					
Apr 11					
May 9	Tour of Benedictine Monastery - LEED Platinum	Benedictine Monastery, Middleton			
Jun 13	Golf Outing				Social

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