

INFORMAIRE

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

VOLUME XXXVIX NO. 6

www.ashraemadison.org

Feb 2007

In this Edition:

Meeting Information	1	CTTC Satellite Broadcast	3		
Presidents Message	2	Membership	4	Chapter Contacts	6
Geothermal Session	3	CRC Region VI '07	4	Advertisers	7
ASHRAE Winter Meeting	3	Program Schedule	6		

FEBRUARY EVENT *Student Night*

Submitted by: Gene Nelson

DATE: MONDAY Evening, February 12th, 2007

LOCATION: Double Tree Hotel – University “B” Room
525 Johnson Street, Madison, Wisconsin 53703

TIME: 5:00 – 6:00 Social Gathering
6:00 – 6:00 Meeting & Dinner
7:30 – 8:00 Program Presentation

Parking is available in public
ramp across street

TOPIC: Engineers Without Borders
For the past several years, Peter Bosscher and other EWB members have traveled to the war-torn African country of Rwanda to help residents build sustainable basic infrastructure systems, including a gravity-fed system that supplies water for Muramba, a community of about 9,000 villagers and 3,000 schoolchildren. In the summer of 2005, the group added water sources to community, improved the quantity of water, and improved the quality of water through solar pasteurization. Members demonstrated solar food cookers (a simple box lined with aluminum foil and covered with glass-a system that takes advantage of the area's high altitude and intense sunlight) and showed residents how to make fuel out of discarded organic materials like paper and garden waste. They also helped to open markets for Rwandan products such as handcrafts, baskets and artwork. This talk describes how the projects affect both the giver and the receiver in a sustainable way.

SPEAKERS: Professor Peter J. Bosscher and Students
Peter Bosscher is a professor at the University of Wisconsin - Madison in Civil & Environmental Engineering and Geological Engineering. He joined the geotechnical engineering faculty in 1980. He is a member of the major civil engineering societies and is most heavily involved in the American Society of Civil Engineers Geolnstitute and serves on the American Society of Civil Engineers International Activities Council.

The INFORMAIRE is the MONTHLY JOURNAL of the Madison, Wisconsin Chapter of the American Society of Heating, Refrigeration and Air Conditioning Engineers. Statements in the publication are not an expression of the Society of the Madison Chapter and may not be reproduced without written permission of the Board of Governors. Editor: Mark Miller, mark.miller@mail.ashrae.org

He is also the founder and faculty advisor of the University of Wisconsin-Madison Engineers Without Borders (EWB) Student Group and also serves on the Board of Directors of Engineers Without Borders-USA. To recognize his work in sustainable engineering around the world, the College of Engineering awarded Bosscher its Ragnar E. Onstad Service to Society Award.

RESERVATIONS: Please RSVP to Gene Nelson at Affiliated Engineers (608-236-1232) or email gcnelson@aeieng.com no later than **5:00 p.m. Wednesday, February 7th**. There is no charge for members at this meeting. Guests will be asked for \$30 donation to help offset the cost of meetings.

Dinner Choice: Please indicate your choice between LEMON PEPPER CRUMB COD or ROAST TURKEY. The cod is a filet encrusted with lemon pepper seasoned bread crumbs, baked golden brown and served with garden blend rice. The roast turkey is tender and juicy turkey breast served with garlic mashed potatoes and turkey gravy.

There is no cost for Members or Students. Non-members cost is \$30 for dinner and the featured program, which is paid at the door. Please make checks payable to [Madison ASHRAE Chapter](#).

Madison Chapter of ASHRAE "No Show" Policy: In an effort to control meeting costs, members who fail to show and fail to cancel by **NOON FRIDAY** the week before, will be asked to contribute \$30 to recover the meal costs incurred by the Chapter. Checks are made out to [Madison ASHRAE Chapter](#) and mailed to Tim Meeker, c/o JDR Engineering, 2809 Fish Hatchery Road, Suite 201, Madison, WI 53713.

PRESIDENTS MESSAGE

Submitted By: Chad Faber

The CRC convention will be here before you know it. As I have stated in previous messages, the Madison Chapter will be hosting the Region IV convention this year May 3-5th. The CRC planning committee has been working hard for nearly a year already to make this all come together. Mark Miller and Tom James, co-chairs, have done a great job pulling all the details together needed to make a function like this successful. Mike Meteyer, our CRC program chair, has put together a top-notch tech program with a speaker line-up that even the Society ASHRAE show would envy. There are many other volunteers that are behind the scenes that have been involved in this as well. Thanks to all who are involved and keep up the good work.

I would also like to remind you of the seminar being provided by the Wisconsin Chapter on **March 15th** in Brookfield. It is titled **Saving Energy in Hydronic Systems**. The guest speaker will be **Roy Ahlgren**. Many of you may know Roy if you attended ITT Bell & Gossett's Little Red Schoolhouse. This should be a great seminar and I encourage you to attend if you are interested in energy savings techniques for pumping applications.

On April 18, 2007, ASHRAE's Chapter Technology Transfer Committee (CTTC) will present a satellite broadcast and simultaneous webcast on "Indoor Environmental Design: Practical Solutions to Everyday Problems." Online registration for site coordinators and webcast viewers begins March 1 at www.ashrae.org/iedbroadcast. Registration for satellite viewers begins March 15. Information about the speakers and program is available at www.ashrae.org/iedbroadcast. Three PDH credits will be granted to those who view the broadcast and then complete the Participant Reaction Form on our webpage following the program. A \$50 discount off a one-year membership will be extended to anyone who joins ASHRAE as a new member in conjunction with the broadcast. See website for details. If you

have questions, call (678) 539-1139 or email ashrae-SatelliteBroadcast@ashrae.org . If you know of anyone looking to join ASHRAE this would be a perfect opportunity.

Sincerely

Chad Faber,
Madison Chapter President

GEOHERMAL LUNCH & LEARN

Submitted By: Manus McDevitt

The **Energy Center** is hosting a Lunch and Learn on “**Design Considerations for Commercial Geothermal Heating & Cooling Systems**” on **Thursday, February 15, 2007**. The presentation will be provided by Manus McDevitt of Sustainable Engineering Group, LLC. It will cover the fundamentals of geothermal heat pump technology including a discussion of when geothermal is appropriate for a commercial project and when it is not. The presentation will also include system design considerations including some typical methods for a variety of space types such as schools, offices, banks, museums and other commercial applications. Life cycle costs of commercial geothermal systems are an important part of the selection process and a number of calculation methods will be covered.

The **Energy Center** is located at 455 Science Drive, Madison, Wisconsin.
Also see <http://www.ecw.org/wps/lunchlearn>.

ASHRAE WINTER MEETING

Submitted By: Mark Miller

The ASHRAE Winter Meetings are over and the event was the largest Dallas has ever experienced. The EXPO occupied the entire Dallas Convention Center. For more follow up, go to www.ashrae.org for photos, awards and technologies announcements.



CTTC Indoor Environmental Design

Submitted By: Mike Gall

The Chapter Technology Transfer Committee will present a satellite broadcast on **April 18th** “Indoor Environmental Design: Practical Solutions to Everyday Problems. The broadcast will be simultaneously be webcast .

For information about the program and speakers direct your browser to www.ashrae.org/iedbroadcast

Three PDH credits will be granted to those who view the broadcast and then complete the Participant Reaction Form on our webpage following the program.

MEMBERSHIP

Submitted By: Matt Heil

	Dec	Jan 2006	Feb	Mar	Apr	May	June	July	Aug	Jan 2007
Members	239	242	246	248	245	245	246	229	232	234
Students	28	27	27	25	23	23	25	18	19	35
Delinquency	29	29	32	30	28	28	25	34	33	9

We would like to congratulate Mr. Matt Koukl from Trane, Mr. Dale Adney from KJWW Engineering, Mr. Michael Hurtz from Henneman Engineering, John Poehling, Mr. Andi Mikelsons from Mead and Hunt, Mr. Diego Arias, Mr. Robert Marquardt, Mr. Michael Davis from Masters Building Solutions, and Mr. Michael Jurrens from Masters Building Solution, as our new ASHRAE members. We would also like to congratulate Mr. Paul Hansen, Mr. Charles Albrecht, Miss Loni LaPlante, Mr. Dennis Kruchten Mr. Paul Mooney, Mr. Sebastian Kuhn, Mrs. Lisa Aschenbrenner, Mr. Chris Sindahl, Mr. Brett Hanson, Mr. Eric Mlsna, Mr. Kenneth Monson, Mr. Joshus Isely, Miss Nicole Hansen, Mr. Dustin Soerens, Mr. Lehrer, Mr. Daniel Andersen, Mr. Matthew Williams, Mr Kyle Holl, Mr. Casey Phillippan, Mr. Johnathan Wade, Mr. Jeremiah Dietel, and Miss Anna Enters as our new ASHRAE student members. Please help us on making them feel welcome to our organization.

Members can pay for up to three years of membership or associate membership in one transaction and receive a 10% discount on the second or third year of payment. If you pay for a two year membership, you will get a \$15 discount off the total payment. If you pay for a three year membership, you will get a \$30 discount off the total payment. Please note that multiyear payments must be made by phone or mail. Chapter dues payment will be accepted at the society headquarters with society dues payment only if chapter payments are made in the same multiyear increments. For example, when a member pays two or three years of society dues, he will need to pay chapter dues at the same time to the society headquarters in the same two or three years increments.

Applications for new members can be filled out on line at <http://www.ashrae.org>, or I would be happy to email you an application.

Sincerely,

Matt Heil

CRC 2007 Sailing Into the Future

Submitted By: Mark Miller

The Chapter Regional Conference (CRC) for May 3rd through the 5th is making great process. Tom James and I met with Region VI Director and Regional Chairman, John Day, Assistant Director and Regional Chairman, Robert Linder and Regional Research Promotion Chairman, John Reike while in Dallas for the ASHRAE meeting. The executive committee wanted to review our progress, review our budget and identify critical deadlines. They left with a comfortable feel with our status, however were stressing the need to meet a few deadlines.



Our Publicity Committee, led by Sharon Gould is working with Mike Meteyer to create a brochure that we can use to distribute to ASHRAE and potential Technical Session attendees. The goal is to have an initial mailing by February 15th. We will need to finalize our fees for the sessions and package costs.

We have started populating the Chapter website and the Regional website with information about the CRC. This will be a "work in progress" as we the information is finalized.

We have scheduled a meeting for Monday, February 19th to get all CRC committee members together for an overview of the activities and communicate between those involved the activities of the others. If you would like to join us, please contact me for the particulars of the meeting time and location.

We would like help with the following positions, so give it some thought and contact us with your thoughts and interests.

*Reception/Hospitality
Recording Secretary*

*Transportation
Facilities*

Photography

Thank you,

Tom James/Mark Miller

HYDRONICS SEMINAR

Submitted By: Chad Faber

Saving Energy in Hydronic Systems

Presented By Roy Ahlgren

On March 15th, 2007 the Wisconsin ASHRAE Chapter is please to announce they will be sponsoring a day-long seminar on Saving Energy in Hydronic Systems. The featured speaker for the seminar will be Roy Ahlgren, the Director of the ITT Fluid Handling's Training & Education Department, teaching courses in steam and water system through ITT Bell & Gossett's Little Red Schoolhouse in Morton Grove, Illinois. He is a past chairman of the ASHRAE Technical Committee TC6.1 Hydronic and Steam Equipment and Systems. Roy is also the author of many booklets and articles on Fluid Handling topics.

With the recent and continued push within ASHRAE to design and incorporate energy efficient systems, this seminar will assist in energy saving techniques through pumping applications. This practical course will be a great opportunity to focus on pump fundamentals, hydronic systems, pump selection, parallel & series pumping, system control, system balance, primary-secondary pumps, air management, open and closed systems, and the use of variable flow systems.

The seminar will start at 8 am with registration and refreshments beginning at 7:15 am. Handouts will be provided and food and beverages will be served for the entire day.

Seminar Location:

Doubletree Hotel

18155 W. Bluemound Road
Brookfield, WI

Prices:

Full-Day Attendance - \$75 ASHRAE Member
(\$100 Non-ASHRAE Members or at the door)
Half-Day Attendance - \$40 ASHRAE Member
(\$50 Non-ASHRAE Members)

To sign up for this seminar, please email or call David Grassl at (414) 266-9231 or david.l.grassl@gasai.com. Payment is due by upon signing up for the seminar.

PROGRAM SCHEDULE Submitted By: Gene Nelson

	Topic	Location	Speaker (s)	Theme
Feb 12	Engineers Without Borders	Campus Location To be Determined	Students with Engineers Without Borders	Membership Night, Student Night
Mar 12	LEED Case Study	To be Determined	Dan Green, A&O	Membership Night, IAQ
Apr 9	Chiller Plant Optimization	To be Determined	Steve Tredinnick, AEI	Student Night
May 14	Chilled Beams	To be Determined	Chris Lawrence, Trox	
Jun 11	Golf Outing	Stoughton Country Club		Social

CHAPTER CONTACTS

OFFICERS:

		<u>Phone</u>	<u>Fax</u>	
PRESIDENT:	Chad Faber	(608) 225-0322		cafaber@pecllc.com
PRESIDENT-ELECT:	Gene Nelson	(608) 238-1232	(608) 238-2614	gcnelson@aeieng.com
TREASURER:	Tim Meeker	(608) 277-1728	(608) 278-8784	meeker@jdreng.com
SECRETARY:	Robb Stone	(608) 277-1728	(608) 278-8784	stone@jdreng.com
PAST PRESIDENT:	Bruce Kimball	(608) 276-9200	(608) 276-9204	kimball@strang-inc.com
BOARD OF GOVERNORS:	Matt Heil	(608) 833-7000	(608) 833-6996	mheil@henneman.com
	Manus McDevitt	(608) 233-7716		mmcdevitt@sustaineng.com


COMMITTEES:

CRC DELEGATE:	Chad Faber	(608) 225-0322		cafaber@pecllc.com
CRC ALTERNATE:	Gene Nelson	(608) 238-1232	(608) 238-2614	gcnelson@aeieng.com
CTTP:	Mike Gall	(608) 275-7001	(608) 275-7002	MGall@mastershvac.com
GOLF:	Michel Robert	(608) 275-7001	(608) 275-7002	MRobert@mastershvac.com
	Doug Bergmann	(608) 275-7001	(608) 275-7002	DBergmann@mastershvac.com
HISTORIAN:	Jeff Boldt	(608) 223-9600	(608) 233-9601	boldtjg@kjww.com
MEMBERSHIP:	Matt Heil	(608) 833-7000	(608) 833-6996	mheil@henneman.com
NEWSLETTER:	Mark Miller	(608) 835-1944	(866) 422-2290	mark.miller@mail.ashrae.org
PROGRAM:	Gene Nelson	(608) 238-1232	(608) 238-2614	gcnelson@aeieng.com
REFRIGERATION:		(608)	(608)	
RESEARCH PROMOTION:	Al Zeller	(608) 241-9342	(608) 837-0278	azeller@capitolmechanical.com
SCHOLARSHIP:	Mitch Hagens	(608) 241-4328	(608) 241-2710	mhagens@naminc.com
STUDENT ACTIVITIES:	Wayne Prior	(608) 288-8338	(608) 288-8388	prioreng@mcleodusa.net
WEBMASTER:	Zach Obert	(608) 249-9322	(608) 249-0307	zacko@weccusa.org

Advertisers Wanted!
Contact Mark Miller
at
mark.miller@mail.ashrae.org

Ruud Heating & Cooling

Mark F. Miller
District Sales Manager



5600 Old Greenwood Road
Fort Smith, AR 72917-7010



Automation Components Inc.



Sensors and Transmitters

Michael D. Bollant Sales Engineer 2305 Pleasant View Road Middleton, WI 53562 Phone 608-831-2585 Fax 608-831-7407 www.workaci.com	Temperature, Relative Humidity, Pressure, Gas, and Current
--	---

Full Year-\$80.00. Half-Year-\$40.00
Send a copy of your business card.
We can either scan you business card
or generate a reproduction of it.

ASHRAE Madison Chapter
c/o Temperature Systems, Inc.
P.O. Box 8030
Madison, WI 53708-8030

(Address Correction Requested)

