

INFORMAIRE

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AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS

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MAY MEETING

Submitted by Bruce Kimball

DATE: MONDAY Evening, May 9th, 2005

LOCATION: Babe's American Bar & Grille,
5614 Schroeder Road, Madison, WI

TIME: 5:00 – 6:00 Dinner And Orientation
6:00 – 6:45 Meeting and Dinner
6:45 – 7:45 **PRESENTATION by JAMES YERGES**

TOPIC: PREVENTING ACCOUOSTICAL PROBLEMS

PRESENTER: **JAMES YERGES**, President of Yerges Acoustics from Downers Grove, IL. James Yerges has provided acoustical assistance in projects such as Milwaukee Art Museum, Schauer Arts & Activities Center in Hartford, WI, Hamilton Southeastern High School, Fischer, IN, Scottish Rite Masonic Center, Milwaukee, WI, and University of Chicago, Cobb Hall, Chicago, IL. James will provide us an insightful discussion on acoustics and how to prevent them.

RESERVATIONS: Please RSVP no later than Wednesday, May 11th by noon.

Cost is \$20 for members and guests and \$1 for students. Pay at the door. Please make checks payable to Madison ASHRAE Chapter. To make reservations, e-mail Bruce Kimball at kimball@strang-inc.com (preferred) or call (608) 276-9200.

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PRESIDENT'S MESSAGE

Submitted by: Tom James

Greetings, Fellow ASHRAE Members!

The Epic Center Tour was very interesting and informational about a unique and outstanding Madison area project. The ability to witness the construction of the largest ground source heat pump system in the U.S. was a unique opportunity. Thanks to all who contributed to the success of this meeting.

On behalf of the Board of Governors, I would like to thank Strang, Inc. for their very generous gift of \$400 to help defray the expenses of the Spring CRC meeting. Corporate supporters like them help us provide quality programs and services to you as members.

The nominees for the Board of Governors positions have been reviewed by the BOG and are as follows:

Bruce Kimball - President	Robert Stone - Secretary
Chad Faber – President Elect/Program Chair	Tim Meeker – Member at Large
Gene Nelson - Treasurer	Matt Heil – Member at Large

The vote for these offices will be at our next chapter meeting.

The CRC2007 Committee is offering the opportunity to select your choice of responsibility if you volunteer now. Please help us with this upcoming event, especially those of you who have been Presidents in the past.

The Scholarship Committee is looking for 2 more members. New talent in our industry is so valuable, that we need to look for any opportunity to expose them to it and encourage their advancement. Supporting young people in considering a career in HVAC is a great opportunity to demonstrate what the industry has done for you. Please contact Mitch Hagens if you are willing to contribute.

The Resource Promotion Committee is approaching the close of their campaign year at the end of June and are making their final contacts to meet their goal. Please donate generously as the committee makes their final request for your contributions. If you are contacted, please say YES and give, otherwise contact Al Zeller.

As this newsletter goes to print, we are participating in CRC in Moline, IL. At the next meeting, we should have information about the CRC meeting. I will report on the significant news and events at the meeting and in the INFORMAIRE.

God Bless and Protect the soldiers who protect our freedoms and our great country!
God Bless the United States of America!

Respectfully Submitted,

Tom James - President, Madison Chapter

GOLF OUTING

Submitted By: Michel Robert

Get your Golf Outing registrations in. As a reminder it will be held on Monday, June 13th, 2005 at Stoughton Country Club at 3165 Shadyside Dr, Stoughton. As in the past, it will be a shotgun start, lunch included, raffle and dinner. The registration forms are available on the Chapter website, www.ashraemadison.org. If you have questions, feel free to contact me at marobert@trane.com or call (608) 838-8200 ext 205. We look forward to having your join us!

MEMBERSHIP

Submitted By: Matt Heil

	<u>Aug 04</u>	<u>Sep 04</u>	<u>Oct 04</u>	<u>Nov 04</u>	<u>Dec 04</u>	<u>Jan 05</u>	<u>Feb 05</u>	<u>Mar 05</u>
Members	217	219	223	222	222	224	224	224
Students	42	42	41	36	37	39	37	34
Delinquency	42	39	31	27	20	17	16	13

The end of the ASHRAE year is fast approaching (June 30th). I would like to thank the membership committee members who helped me over the past year. We are continually looking for more members on the membership committee. The membership committee is a great way to meet people, a great introductory to learning about ASHRAE, and to become more involved with our society. The great thing about being on the membership committee is work is not very demanding and you can partake when you have the time. If you would like to join the membership committee, please contact me at mheil@henneman.com.

We are continuing to update member's information. If your information has changed (for example; emails, work place, address, phone number, etc.), please either contact us or change it on line. To change your information online go to <http://www.ashrae.org>, go to the "Membership Resources" at the top, then proceed to the "Manage Your Membership" on the right side of the page, and click "Address Change" in the center of the page. Proceed to the link and fill out your information. Once again, if you send us your information, we are happy to take care of this for you. We only ask that you provide us with your member number, if possible as we find that the process is accelerated when dealing with customer service.

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.

MEETING MINUTES

Submitted by: Gene Nelson

Chapter Meeting:

1. **PRESIDING OFFICER:** Tom James, President
2. **CALL TO ORDER (Time & Place)** April 14, 2005 5:57 p.m.
The Heights Event Center
Prairie Heights Road
Verona, Wisconsin
3. **BUSINESS MEETING/
COMMITTEE REPORTS/** Meeting was a joint meeting with the local chapter of ASPE.
Tom James presented list of nominees for the 2005-2006 Board of Governors. Bruce Kimball – President, Chad Faber – Vice President, Gene Nelson – Treasurer, Rob Stone – Secretary, Tim Meeker and Matt Heil for Members-at-large. Additional nominations and elections will be held at next month's meeting. Promotion committee held their monthly raffle for a \$75 gift certificate at The Tornado Club Steak House. The prize was donated by Capitol Mechanical.

4. PRESENTATIONS PROGRAM

Manus McDevitt of Affiliated Engineers presented the pre-tour information regarding the geothermal installation at the Epic facility in Verona. Highlights from his presentation included:

- 1) The Epic facility is being built in 2 phases. Phase I is 550,000 square feet, 1200 tons. This will be the largest geothermal installation in Wisconsin.
- 2) Phase II will add another 500,000+ square feet and another 1400 tons and will be one of the top three geothermal projects in size in the U.S.
- 3) Two thermal test wells were drilled to determine the thermal conductance of the bore field. One test well was 450 feet deep and the other 400 feet deep and cost about \$7000 each. Results of the thermal conductance tests were within 5 % of each other. Additional test were not required.
- 4) Phase I has about 450 water source heat pumps, 12 energy recovery units for outdoor ventilation/toilet exhaust with DX water cooled cooling, three (3) 150 HP bore field pumps, two (2) 25 HP building secondary pumps in each building.
- 5) Loop is pumped at 2.7 gpm per ton. The system was designed to use 20% glycol. Lines are deep enough that frost protection is not required. Lowest operating temperature is 40°F. Owner is initially going to attempt to operate the system without glycol.
- 6) 85% of the heating is via the heat pump system. 15% of the heat is via hot water boilers for systems with high heat intensity (kitchens, loading docks, entryways, etc.)
- 7) The bore field consists of 576 wells, which are reverse return circuited from three concrete vaults.
- 8) Geothermal are a good fit for historical buildings, educational facilities, and commercial buildings. Geothermal systems should not be ruled out for health care and laboratory facilities.

A caravan of vehicles transported the group to the construction site at the Epic Facility. Tour stops included one of the typical mechanical rooms, the central pump room, and bore field. Doug Bergmann of the Trane Company presented the mechanical room. The mechanical room had a group of centrally located water source heat pumps, return fan system with central filtration, energy recovery unit for toilet exhaust and make-up air. Heat pumps were centrally located to reduce maintenance. Central filtration using the return fan was used to be Leeds certifiable and to reduce the fan static on the small heat pumps. Each heat pump serves 3-4 offices. Larger units (up to 20 tons) were used for larger conference areas.

Manus McDevitt presented the central pump room. The three large pumps were each sized for 50% of the system capacity. One pump is redundant. The system capacity is 3500 gpm at 185 feet of head.

Steve McGowan of LoopMaster International of Indianapolis, IN is the bore field contractor and presented details of the bore field. The bore field was arranged with wells on 20-foot centers. Each well has 1-1/4" DR9 HDPE pipe rated for 200 psig. Wells were backfilled with thermal conducting grout. The method of heat fusion used to join the pipe was also demonstrated.

We wish to extend our thanks again to Manus McDevitt, Doug Bergmann, Steve McGowan, along with the other tour guides for a well received program.
8 pm

1. ADJOURNMENT

Reported By:

Gene Nelson.

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PROGRAM SCHEDULE

Submitted By: Bruce Kimball

	Topic	Location	Presenter	
May 9	Acoustics-101	Babes American Bar & Grill	Jim Yerges	
Jun 13	Golf Outing	Stoughton Country Club		Social

CHAPTER CONTACTS

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at

mark.miller@mail.ashrae.org

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