

INFORMAIRE

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

www.ashraemadison.org

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MARCH MEETING *Student Night & Joint with RETA* Submitted by Bruce Kimball

DATE: Monday Evening, March 14th, 2005

LOCATION: Kohl Center Tour
Nicolas Suite [Park at Johnson/Francis ramp]

TIME: 5:00 – 6:00 Social Gathering
5:45 – 6:30 Meeting and Dinner
6:30 – 7:30 **TOUR**

TOPIC: Tour of the KOHL Center refrigeration system

Ever wonder how the Kohl center basketball court becomes a Hockey rink? How does a refrigeration system differ from an HVAC cooling system? Join us for a tour of the refrigeration equipment rooms and Kohl center arena to find out the answers to these, and many more questions.

TOUR GUIDES: Dale Kuhlman, PE, Kuhlman Assoc. & DK Engineering. Principle designer of the refrigeration system
Jason Davenport, UW Wisconsin, Facility manager of the Kohl center

Dinner will be buffet style with a house salad; succulent baby back ribs basted with Sweet Baby Rays BBQ sauce, creamy scalloped potatoes, and a zucchini & yellow squash sauté vegetable.

RESERVATIONS: Please RSVP no later than Wednesday, March 9th 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.

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

PRESIDENT'S MESSAGE

Submitted by: Tom James

Greetings, Fellow ASHRAE Members!

Thank you to Mike Broge and Mike Walters for their program on Energy Conservation Strategies for Higher Education Laboratories.

The upcoming tour of the Kohn Center in a joint meeting with RETA is certain to be very informative and interesting. Come and be educated about refrigeration for such a facility.

Chapter Regional Conference is approaching on April 28-30. This is the opportunity to participate about ASHRAE at a multiple chapter lever, including some very useful technical sessions as well as the committee and officer training workshops. I encourage you to come to Moline if at all possible. See the website at <http://www.ashrae6.org/CRC/index.htm> for complete information.

See you at the meeting!

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

CHAPTER TECHNOLOGY TRANSFER COMMITTEE

Submitted By: Mike Gall

We are excited to announce that we are planning a spring 1/2 day seminar before the **May 9th** meeting. Contractors, engineers, architects and possibly an owner's representative will continue last December's roundtable discussion on the Plan & Spec market. Watch for a flyer at this month's meeting... If you are interested in being part of the round table panel, please contact Mike Gall (mgall@trane.com) as soon as you can. Thanks!

HISTORIAN

Submitted By: Jeff Boldt

We are beginning to digitize our historical archives for historical PAOE points, safety for the information (we will distribute a few copies) and to eliminate the bulky boxes. My scanner is getting quite a workout! If you have items that might be of historical interest please send them to Jeff Boldt, KJWW Engineering Consultants, 802 W. Broadway, Suite 312, Madison, WI 53713 or bring them to a chapter meeting and I will be happy to receive them.

SATELLITE BROADCAST

Submitted By: Mark Miller

Mold in the Building Environment Satellite Broadcast – Wednesday April 13th at 12:00 noon

The Madison Chapter of ASHRAE is coordinating two sites for the ASHRAE Satellite Broadcast on **April 13th, 2005 at 12:00 noon CST**. Planning Design Build and The Trane Company will host sites for viewing this valuable presentation. The mold broadcast presenters will explore prevention of mold in new construction, methods for monitoring mold in indoor environments, detection of biological contaminants, solutions to prevent and/or alleviate mold problems and the legal issues relating to mold contamination. The **attached announcement** included more detailed information. Sign up early, as the sites have limited seating.

STUDENT ACTIVITIES

Submitted By: Wayne Prior

The Student Activities Committee would like to thank you for the 16 ASHRAE Handbooks that have been provided to students this year. We could still use more Handbooks to offer to more students. They have become very popular. Please contact me if you have any available.

The March meeting is a Student Night with a tour. It should be a chance to interact with some students who are interested in our industry. Please come out and welcome them to our meeting.

STUDENT ATTENDS ASHRAE WINTER MEETING

Submitted By: Robin Maly

Thanks to the Madison ASHRAE Chapter! I had a great opportunity to attend ASHRAE Winter Meeting in Orlando, Florida this past February. This was my first international meeting and I tried to take in as much as I could. I attended a seminar on underfloor displacement ventilation, a symposium on energy recovery and a technical session on heat exchange tubing. I also went to the AHR Expo to see all the new products on the market.

My favorite part of the trip, however, was the daylong student meeting. We were able to talk to a panel of HVAC engineers, see the winners of the student design competition and take a technical tour of Sea World. On the tour we were able to see Discovery Cove, a part of Sea World where you are able to swim with dolphins, sharks, stingrays and many different varieties of fish. After touring the swimming tanks we went behind the scenes to see the equipment needed to keep the area clean and healthy for both the people and the animals. Not only do they maintain very tight chemical tolerances, they also make their own sea water.

Overall I had a fantastic time and learned a lot. I plan to attend the next Winter Meeting in Chicago next year. Thanks again for this wonderful opportunity.

~ *Robin Maly*

GOLF OUTING

Submitted By: Michel Robert

The 40th annual Madison Chapter Golf Outing is coming up quickly. 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. Attached to this INFORMAIRE is the invitation letter and the registration form. 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 you join us!

MEMBERSHIP

Submitted By: Matt Heil

	<u>Jul 04</u>	<u>Aug 04</u>	<u>Sep 04</u>	<u>Oct 04</u>	<u>Nov 04</u>	<u>Dec 04</u>	<u>Jan 05</u>
Members	216	217	219	223	222	222	224
Students	42	42	42	41	36	37	39
Delinquency	55	42	39	31	27	20	17

We would like to congratulate **Mr. Joseph Danes, Mr. Thomas Paynter, Mr. Daniel Bergmann,** and **Mr. William Talbert** as a new ASHRAE member. We would also like to congratulate **Mr. John Dyreby, Mr. Curtis Lane, Miss Karla Gault, Ms. Megan Beebe,** and **Mr. Rory Foster** as a new ASHRAE student member. Please help us on making them feel welcome to our organization.

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We are pleased that our member delinquency as shown above has decrease dramatically! Thank you for helping us make this possible. We are continuing updating 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. We have found 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:** Bruce Kimball, Vice President
2. **CALL TO ORDER (Time & Place)** February 15, 2005 6:58 p.m.
Radisson Inn
6617 Odana Road
Madison, Wisconsin
3. **BUSINESS MEETING/
COMMITTEE REPORTS/
PRESENTATIONS** Promotion committee held their monthly raffle for a \$100 gift certificate at La Paella Restaurant. The prize was donated by R. L. Johnson & Associates (Local A/E firm with offices in Madison and Rockford).
4. **PROGRAM** Mike Broge and Mike Walters from Affiliated Engineers presented two case studies of implementing energy conservation strategies for higher education laboratories. Mike Broge is project manager for Affiliated Engineers, specializing in higher education facilities. Mike Walters is an engineer with Affiliated Engineers specializing sustainable designs and has contributed to the Labs21 Energy program. Highlights from their presentation included:
 - Institutions with over taxed infrastructure are using sustainable design to lower future infrastructure upgrade costs.
 - Ventilation systems account for over 50% of the energy in a Midwestern higher education laboratory building and have the highest potential for energy savings.
 - Labs21 project is in the process of benchmarking energy usage for laboratory facilities. Current usage appears to be between 500,000 and 1,000,000 BTU/Square foot/year.
 - Using enthalpy heat wheels have a higher heat recovery efficiency when compared to traditional runaround coils and should be considered for general exhaust air stream. Runaround systems can still be used for areas where cross-contamination is of concern.
 - Ventilation can be reduced by applying diversity factors, challenging program requirements in regards to hood usage, using reduced flow hoods, using combination sashes, using variable volume designs, using air more than once in cascading ventilation schemes, and using terminal cooling devices (fan coils, etc.) for large sensible cooling loads.
 - Fan energy can be reduced by over sizing coils and components using 300 feet per minute in lieu of the traditional 500 feet per minute.
 - Dual duct systems can be cost effective for laboratory systems in hot dry climates.We wish to extend our thanks again to Mike Broge and Mike Walters for a well received program.
5. **ADJOURNMENT** 7:53 pm
Reported By: Gene Nelson.

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BOG Meeting:

1. **PRESIDING OFFICER:** Tom James, President
2. **CALL TO ORDER (Time & Place)** February 21, 200 4:08 p.m.
6654 Mineral Point Road
Madison, Wisconsin
3. **ROLL CALL** Tom James, Bruce Kimball, Chad Faber, Gene Nelson, Tim Meeker, Mark Miller, and Mike Gall
4. **APPROVAL OF MINUTES**
Motion Bruce Kimball motioned to accept the January 2005 BOG and Chapter meeting minutes.
Second Chad Faber
Vote Unanimous
5. **REPORTS**
Treasurer's Report Chad needed a little more notice to finish the treasurer's report. Chad will e-mail the treasurer's report to the BOG for approval.

Satellite Broadcast

Madison ASHRAE Chapter will sponsor 2 host sites for ASHRAE's upcoming satellite broadcast on "Mold in Our Building Environment" seminar held April 13th from 12 noon to 3 p.m. CDT. The two sites will be Trane's office on the east side and Plan Design Build's office on the west side. Trane can handle up to 30 people. Plan Design Build can handle up to 110 people. We agreed to charge the same for both sites (\$10) which will include a sandwich type lunch. The Madison Chapter will take the reservations, collect the charge, and reimburse each office for the lunch expense. Mark Miller will download the seminar notice from ASHRAE's website and will e-mail flyers to local ASHRAE members by March 14th. Bruce Kimball agreed to the RSVP person for the site registration. We agreed to automate the registration as much as possible using the website including notifying potential attendees when a particular site was full. Chad and Bruce agreed to send this notice to the local IFMA, ASPE, AIA, General Contractors Association, and DSF (State of Wisconsin).

Spring Seminar

Mike Gall was concerned that there was not sufficient time plan or sufficient interest in having a half day seminar on a topic previously discussed at the December meeting (Contract Documents Panel Discussion). The BOG reassured Mike that there was plenty of interest and there were many suggestions from members to continue this dialogue started at the December meeting. We agreed that a half day seminar before the May 9th meeting (1 p.m. to 5 p.m.) would work and would allow sufficient planning time. We discussed options to expand the discussion which including having small group breakouts to discuss the questions, then meet together at the end to summarize. This format would not necessary require guest panelist, however panelist similar to the December meeting might also help facilitate the discussion. We agreed that up to 6 panelists (2 engineers, 2 contractors, an architect, and an owners rep) would be good. There would be a need for a moderator similar to last time. Flyers need to be ready by the March meeting. Mike Gall agreed to do the flyer. BOG members agreed to e-mail Mike 2 sample questions. Additional questions can be solicited by the advertising flyer that will be sent out.

We agreed that the Marriott or the Radisson would be good locations. To get PAOE points, the seminar and meeting need to be in different rooms. The fee charged at the last seminar was \$50 and we lost money. Tom said that expenses could be reduced. (He ordered too much food last time.) We were concerned that if the cost got too high, we would not draw the same crowd. Mike will work with Bruce to determine an appropriate fee.

Tom suggested that we videotape the seminar and make it available on our website. We should have a counter to determine how many hits this part of the website receives.

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CRC 2007

Tom James and Mark Miller agreed to be co-chairs of the CRC 2007 committee. John Davis has also agreed to join. The BOG should pursue other members to join the committee. Past chapter presidents would be a good resource. Mark and Tom will author job descriptions for each sub-committee by the next BOG meeting. The Quad Cities CRC is a good model. They had sub-committees for finance, recording secretary, entertainment, advertising/publicity, transportation, photography, and committee meeting minutes. Tom said that tours and technical programs are very important.

A site should be selected within 18 months of the CRC, which is this coming fall. The committee will prepare a decision matrix with facility needs and costs. We agreed that we need to develop a website to publicize the CRC 2007.

CRC 2005

This year's CRC is April 28th – 30th in the Quad Cities. The chapter has traditionally sponsored the delegate (Tom James) and the alternate (Bruce Kimball) for the full CRC. We have also agreed in the past to cover expenses for other chapter members attending up to a high limit amount. Last year's amount was \$800. This year's costs are projected at \$220/person for the full attendance plus \$92/night for hotel.

Motion Second Vote

Gene Nelson motioned to budget \$1000 for now.
Tim Meeker
Unanimous

We agreed that the \$1000 budget could be adjusted depending on the demand. It will be advertised the membership that funds are available for expense reimbursement up to the \$1000 limit. All BOG members are encouraged to attend.

Program Committee

Bruce found a reasonable cost plaque for speaker gifts. The cost was about \$36 plus lettering costs. The BOG directed Bruce to order these plaques for this year and next year.

Student Activities

Tom James received a letter from Prof. Tim Shedd at the University thanking for sponsoring Robin Maly and encouraged us to sponsor another student next year. We expect to hear Robin's report soon, possibly at the March meeting.

Golf Outing

Mike Gall agreed to talk to Michel Robert regarding the Golf Outing. We should get a preliminary notice out in the March *INFORMAIRE*.

6. OLD BUSINESS 7. NEW BUSINESS Next BOG Meeting

To be determined.

8. ADJOURNMENT

5:29 pm

January Treasurer's Report – By Chad Faber

Expenses

Monthly meeting –	\$860 JT whitney's – Ck#1672
Scholarships Spring Semester-	\$2250 Ck#1673-75
TDS Account Closeout -	\$42.10 – Ck#1676

Income

Monthly meeting income - \$862.00 meeting dues – includes Regional Dues.

- 30 cafeteria plans, of which 20 were in attendance.

Statement Balance Reports

First Federal -	\$6,455.68
Merrill Lynch Scholarship Fund – 12/31/04	\$41,059 net value
Merrill Lynch Investments –	\$24,815.71 Priced Portfolio

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PROGRAM SCHEDULE

Submitted By: Bruce Kimball

	Topic	Location	Presenter	
Mar 14	Kohl Center Tour, Refrigeration facility	Kohl Center	Dale Kuhlman & Jason Davenport	Student and Joint with RETA
Apr 11	Tour EPIC	EPIC	AEI	Joint with ASPE
May 9	Acoustics-101	TBD	Jim Yerges	
Jun 13	Golf Outing	Stoughton Country Club		Social

CHAPTER CONTACTS

OFFICERS:

		<u>Phone</u>	<u>Fax</u>	
PRESIDENT:	Tom James	608/845-6411	608/845-6470	Tjames1229@aol.com
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	Doug Bergman	608/838-8200	608/838-6015	debergmann@trane.com
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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
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RESOURCE 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

**Advertisers
Wanted!**

Contact Mark Miller
at

mark.miller@mail.ashrae.org

**Air Conditioning Mark F. Miller
Division District Sales Manager**

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Fort Smith, AR 72917-7010

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(Address Correction Requested)

