

INFORMAIRE

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AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS

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NOVEMBER MEETING *Student Night*

Submitted by Chad Faber

DATE: MONDAY Evening, November 14th, 2005

LOCATION: Marriott West,
5957 McKee Rd. Madison WI

TIME: 5:00 – 6:00 Social Gathering
6:00 – 6:45 Meeting and Dinner (*motion on raising chapter dues*)
6:45 – 7:45 **PROGRAM PRESENTATION**

TOPIC: FIRE/SMOKE DAMPER REQUIREMENTS &
CODE RELATED HVAC ISSUES.

- When fire dampers are required
- Situations that dictate the use of a smoke damper
- How a smoke damper must operate
- Ceiling radiation dampers
- When a ceiling radiation damper is required
- Special access & safety requirements the code requires for HVAC equipment on a roof top
- Other equipment installation issues

SPEAKERS: **Randy Dahmen** Advanced Engineering Consultant HVAC & Energy Conservation
State of Wisconsin, Department of Commerce, Division of Safety & Buildings

Mr. Dahmen graduated with honors from the University of Wisconsin-Madison, in 1985, with a Bachelor of Science Degree in Mechanical Engineering. He continued engineering studies in the Graduate School of the University of Wisconsin-Madison and was awarded a Master of Science Degree in Mechanical Engineering in 1986. He has been a registered Professional Engineer in the State of Wisconsin since 1989.

Prior to his current position, Randy worked with the Carnes Company, a HVAC equipment and air system manufacturer located in Verona, WI. During that time, he was involved in the design and testing of air movement equipment, the certification of air movement equipment & systems (via ARI, UL, CSA), as well as the start-up &

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servicing of equipment delivered to the field. He was the Senior Product Engineer for the Energy Recovery Wheel, and Air Handling Unit product lines.

He currently works for the State of Wisconsin's Department of Commerce and the Division of Safety and Buildings as an Advanced Engineering Consultant. His present efforts involve HVAC Contractor Registration and the HVAC Qualifier Certification Programs; the Wisconsin Commercial Building Code with emphasis on the HVAC and Energy Conservation Chapters; training as it involves Designers, Contractors, and Building Owners on the use of the HVAC and Energy Conservation Chapters of the Commercial and Uniform Building Codes; as well as Commercial Building Plan Review. He represents the Integrated Services Bureau on the Commercial Building Energy Conservation Committee.

He is certified as a Commercial Building Inspector, and as a Uniform Dwelling Code HVAC Inspector. He has passed the Wisconsin HVAC Qualifier Examination.

He was awarded a "Certificate of Appreciation" from the Milwaukee Chapter of ASHRAE for "...devoted service to the growth and progress of the ASHRAE Inc."

RESERVATIONS: Please RSVP no later than Wednesday, November 9th so we will have enough dinners.

Please indicate dinner selection; Grilled Chicken Breast, or Marinated Pork Loin

There is no cost for Members or Students. For non-members the cost is \$20 for dinner and the featured program. Pay at the door. Please make checks payable to Madison ASHRAE Chapter. To make reservations, e-mail Chad Faber at cfaber@planningdesignbuild.com (preferred) or call (608) 836-5818.

PRESIDENT'S MESSAGE

Submitted by: Bruce Kimball

It has been a busy month for the Board of Governors (BOG). Every 5 years the BOG must review the chapter Constitution and Bylaws. These are legal documents that define our roles and responsibilities. Society sent us updated information for our review and the BOG has been reviewing and discussing the various changes that Society has requested. We have the ability to make changes to the recommended documents, but the process involves motions to change, vote notification, voting, and then, if approved, it is sent to Society for their lawyers to have the final say. The BOG voted to accept the Society recommended update of the Constitution and Bylaws. All members will receive an updated copy of the Chapter Constitution and Bylaws.

One of the changes in the Bylaws concerns mandatory committees. We have technically had a Chapter Nominating Committee, but the new Bylaws make this a mandatory standing committee that nominates all of the chapter positions. Wayne Prior has agreed to participate on this committee and we will need 4 other individuals for a 5-person committee.

Another mandatory committee will be the CRC Action Committee. It is recommended that the chair of this committee be a past chapter President. Tom James has agreed to chair this committee and the BOG has informally agreed that the chairman seat will be the most current past President. The primary role of this committee is obtain information on possible candidates for Society and regional offices/committees/honors and awards.

The last committee that we should establish is an Auditing Committee. This committee should consist of 3 people. BOG members cannot be on this committee. The role of the committee will be to approve the treasures report each month and notify the BOG of any questionable activity. We hired a CPA firm to

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examine our books and report their finds to the BOG. This is not a substitute for an impartial committee to oversee the chapter funds on a regular basis. You will NOT need a degree in accounting to be on this committee, just the ability to understand a Quicken report similar to the version you may be using on your own home computer.

At the next chapter meeting we will be soliciting volunteers for these committee vacancies. If we do have volunteers we will assign members to fill these positions, as they are vital to the successful operation of our chapter and required by our Bylaws.

Thank you for all the hard work our Board of Governors and committee members have done.

Sincerely,

Bruce F. Kimball, P.E. - Madison ASHRAE Chapter President 2005/6

CHAPTER DUES MOTION

Submitted By: Bruce Kimball

At the November meeting, a motion will be raised for action by the general membership. The motion reads: *"Raise the Chapter membership dues from \$30 to \$80 and do not charge members in good standing for attending Chapter dinner/speaker meetings."*

Action will be taken on this motion at the November meeting with the members in attendance. Please contact a BOG member or myself before the meeting if you have questions regarding this motion or the discussion behind it.

WISCONSIN CHAPTER PROGRAM

Submitted By: Mark Miller

The Wisconsin Chapter of ASHRAE in Milwaukee is very fortunate to have William Coad, P.E., past Society President and ASHRAE Distinguished Lecturer visit our chapter on **Thursday, November 17th**. Two opportunities to hear Mr. Coad will be provided during his visit to Wisconsin. A Tech Session on **"VAV System Design: Problems and Opportunities"** will be held at 4:00 p.m. This will be an informal and interactive session/discussion. Dinner will follow the Tech Session. Mr. Coad's will present **"The Ethics and the Economics of Energy Conservation"** as a meeting feature presentation following dinner. Your attendance is strongly encouraged, as Mr. Coad is an excellent speaker with a wealth of knowledge and insight in our industry.

Details of the meeting can be found at the Wisconsin Chapter website, www.ashrae-wi.org.

CRC/ARC Committee

Submitted By: Tom James

ASHRAE has recently mandated that all chapters shall have a standing CRC/ARC Action Committee. This committee shall determine major items of concern to the Chapter; obtain biographies on possible candidates for Society and regional offices, committees, and various regional and Society honors and awards; provide direction to the delegate and alternate delegate on actions to be presented on the Chapter's behalf at the CRC/ARC. The chair of this committee is to be a Past president of the Chapter. It is the BOG's determination that the immediate Past President should become the chair of this committee at the beginning of each year, and therefore I am pleased to announce that I will be serving in this capacity until the end of this ASHRAE year.

Please contact me with any issues, proposed motions, changes, or ideas that should be presented to ASHRAE Society or to Region VI. Also, if you have any desire to serve in any regional or Society level office, please feel free to let me know.

HISTORIAN

Submitted By: Jeff Boldt

Tom James loaned me two notebooks containing historical information about Carnes Company. I hope to start developing that information into a history document in late November. Bruce Kimble is making modifications to a history of Strang. Chad Faber is working on a history of Planning Design Build. Mike Meteyer is making modifications to improve the Marshall Erdman history for society level competition this year.

RESEARCH PROMOTION

Submitted By: Al Zeller

I want to thank all members and donors who are supporting the Chapter Research Raffle. The prizes this year have been donated by the Wilderness Resort in Wisconsin Dells, Capitol Mechanical, Kennedy Manor Restaurant, Planning Design/Build and Masters Building Solutions. We look forward to others who can participate on the donor level. Typically the raffle prize has been generating 1.5 to trouble the value of the prize, sort of like a matching gift from our membership.

ASHRAE Journal Article

Submitted by: Mark Miller

Did you see the article two of our Madison Chapter members authored and had published in the ASHRAE Journal? It is titled Solar Refrigeration by Sanford Klein and Doug Reindl and can be found at http://www.ashrae.org/content/ASHRAE/ASHRAE/PDF/20058309533_886.pdf.

We should realize the many contributions our local members provide to ASHRAE, which relates the amount of Research money that is brought back to our chapter community. Al Zeller's efforts to the Research Promotion committee are enthusiastic and greatly appreciated. He recognizes the work that we are being rewarded with in the Madison area, such as Sanford and Doug. Read the article and be proud of our local members and the work they do with our students on behalf of ASHRAE.

SATELLITE BROADCAST/WEBCAST

Submitted By: Mark Miller

Although this is a little early, it doesn't hurt to start announcing a Satellite Broadcast/Webcast for spring of 2006. ASHRAE is producing a presentation titled "Sustainability and the Building Environment" on April 19th, 2006 as a Satellite Broadcast/Webcast. An official webpage has been created at www.ashrae.org/greenbuildingsbroadcast which features information regarding the presenters and moderators, frequently asked questions, on-line registration dates, tentative agenda and ASHRAE "Green" publications, courses, and Distinguished Lecturers. The Madison Chapter will look forward to aiding in this presentation

Comments and questions can be directed to Rosy Douglas at rdouglas@ashrae.org or (678) 539-1128. 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: Tim Meeker

BOG Meeting:

1. **PRESIDING OFFICER:** Bruce Kimball, President
2. **CALL TO ORDER (Time & Place)** September 28, 2005 4:03 p.m.
 Babes Grill & Bar
 5414 Schroeder Road
 Madison, Wisconsin
- ROLL CALL**
 Bruce Kimball, Chad Faber, Matt Heil, Tim Meeker, Gene Nelson, Robb Stone, Tom James
3. **APPROVAL OF MINUTES**
Motion Gene Nelson motioned to accept the July 2005 BOG meeting minutes.
Second Tom James
Vote Unanimous
4. **REPORTS**
Treasurer's Report It was requested that the CRC 2007 Committee establish a budget.

The chapter audit has started. The BOG should expect something from the CPA by the end of October. Preliminary information from the auditor indicates that we will need to file with the IRS and that we should have a formal policy on delivery of student scholarships.

The chapter needs to establish an audit committee. This committee is in addition to the current audit. The BOG will discuss this at the October meeting. Gene indicated that he has just transferred \$1,500 to the checking account.

The BOG agreed that the \$100 website fee was justifiable. As of September 27, 2005, our total net worth is \$68,428.55. Cash flow from 8/22/05 thru 9/27/05 includes:

Inflows:

<u>Item</u>	<u>Amount</u>
Membership Fees - Society	\$1,170.00
Program – Meal Income	\$ 100.00
Interest Income	\$ 23.61

OutFlow:

<u>Item</u>	<u>Amount</u>
Membership – Mtgs	\$1,448.33
Program-Speaker Gifts	\$ 32.00

- Motion**
- Second**
- Vote**
- Committee Reports**

Robb Stone motioned to accept the Treasurers Report.

Chad Faber
 Unanimous

CRC 2007

Tom indicated that the committee is currently gearing up, as CRC 2007 is 18 months away. An October 4th committee meeting is planned.

Membership

The Membership committee will be highlighted at the October general membership meeting. The membership committee would like to highlight these points at the meeting:

- Welcome members.
- Recruit members for the Membership Committee.
- Present clear expectations for members of the committee.
- Identify areas where we need additional member help.

Program

The October general membership meeting program topic revolves around a LEED Building Case Study. The program will include (3) speakers. None discussed.

5. **OLD BUSINESS**
6. **NEW BUSINESS**

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- Volunteer Pool** Bruce would like to establish a volunteer pool. When tasks come up, the intent would be to draw from the pool. The BOG debated the need for such a pool. The BOG believes that all members are part of the volunteer pool and if help is needed, we ask a member.
- Chapter Bylaws** Society has updated the chapter bylaws. The BOG and general membership need to approve the by-law changes. The following course of action was developed for acting on the by-law changes:
- The BOG will review all changes.
 - The BOG will forward any comments on by-law changes to Bruce by October 19th.
 - At the October BOG meeting, the BOG will approve or modify, as required, the new by-laws.
 - The newly amended by-laws will then be presented at the November general membership meeting.
- Newsletter** There has been a request to include a meeting notification for Madison Green Drinks in the INFORMAIRE. Mark Miller forwarded this request to the BOG.
- There are newsletter guidelines to be followed in regards to meeting notifications. This policy was reviewed and acted upon by last year's board of governors.
- Membership** There has been a lag time between membership submittals to society and notification to the chapter. Matt is actively pursuing an accurate membership directory for the chapter. Matt will send Gene and Chad an updated membership list on the Friday before the general membership meeting. Matt has also seen a few members come back and sign-up for the Madison Chapter (members that were from other regions). Meeting cost were discussed at length with the following conclusions:
- Lifetime Members No charge to attend meetings.
 - Student Members: No charge to attend meetings.
 - Student Non-Members:
 - Applications will be on site to distribute to student guests.
 - Matt and Wayne will talk to student guests during meetings about joining the chapter.
 - Contact information will be collected from prospective members.
- Motion** Matt made a motion that Student Non-Members will not be charged to attend chapter meetings. The chapter would like to encourage students to attend meetings and become student members.
- Second Vote** Robb Stone
Unanimous
- ASHRAE 90.1 Train the Trainer Workshop** The BOG desires to move forward with scheduling a date for a half day ASHRAE 90.1 Train the Trainer Workshop. The BOG has suggested a tentative date of Wednesday February 22nd. The BOG would like to start advertising for the event in November. The BOG requests Mike Gall and Jeff Boldt to work out details/arrangements for this event.
- Next BOG Meeting** 4:00 p.m. October 26th, 2005
Babes Grill & Bar
5414 Schroeder Road
Madison, Wisconsin
4:52 pm

7. ADJOURNMENT

General Meeting Minutes

1. **PRESIDING OFFICER:** Bruce Kimball, President
2. **CALL TO ORDER (Time & Place)** September 12, 2005
Radisson Hotel
517 Grand Canyon Drive
Madison, Wisconsin
3. **RAFFLE FOR**

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- RESEARCH** The Research Promotion Committee sold raffle tickets to raise funding for research. The prize is an overnight stay at the Wilderness Resort by Wilderness Hotel in Wisconsin Dells.
4. **PRESIDENT'S INTRODUCTION** Bruce welcomed everyone to the meeting, including welcoming and introducing guests for the evening.
Volunteers are needed to help Madison host the 2007 CRC Conference. Members were informed that we have free tickets to the AHR Expo next January for all ASHRAE members.
5. **BOG NEWS** Bruce informed everyone of the mix-up with Robb Stone and Tim Meeker as Chapter Secretary.
Bruce asked for a member vote to name Tim Meeker as Chapter Secretary and Robb Stone as Member at Large.
Vote The member vote was unanimous to approve Tim Meeker as Secretary and Robb Stone as Member at Large, next in line for rotation to the Secretary position.
6. **PROGRAM INTRODUCTION** Chad Faber introduced Toni Rossi from Greenheck as our guest speaker, talking about Laboratory Exhaust Systems.
7. **PROGRAM** Topic is lab exhaust systems.
 - The Solution to Pollution is Dilution.
 - The object is to remove fumes from the laboratory.
 - Manifold exhaust ductwork verse indirect exhaust ductwork.
 - Fans.
 - Axial.
 - Centrifugal.
 - Mixed air fans.
 - Bearings - What does L10-30,000 really mean.
 - Fans laws.
 - Direct drive motors verse belt drive motors for laboratory exhaust – Advantages and Disadvantages.
 - Perchloric Acid Exhaust.
 - Always use single ductwork.
 - Explosion is possible if combined.
 - Water reduces the possibility of explosion.
 - Laboratory Exhaust System Design Checklist.
 - Conclusion.
8. **PROGRAM CONCLUSION** Chad presented Toni Rossi with a Plaque from the Madison ASHRAE chapter and thanked him for his time and knowledge.
9. **RAFFLE DRAWING** The Research and Promotion raffle drawing took place. Scot Whitney from Arnold and O'Sheridan was the lucky winner.
10. **NEXT MEETING** October 10, 2005, Fitch's Chophouse and Spirits, 5957 McKee Road Madison, Wisconsin

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PROGRAM SCHEDULE

Submitted By: Chad Faber

	Topic	Location	Presenter	Event
Nov 14	Fire/Smoke Damper & Code Related Issues	Marriott West	Randy Dahman, State of Wisconsin	Student Night
Dec 12	Proper Designs of Condensing Boilers		Aerco Corporation	
Jan 9	HVAC Solutions to Computer/Data Rooms		Buzz Menz, CDP	
Feb 13	DDC and LEED: How Is It Applicable?		KGAC	Membership Night
Mar 13	Natatorium HVAC Design and Heat Recovery		Ralph Kittler, Seresco	
Apr 10	Energy Modeling Simulation and Case Study		Dan Pliner, JDR Engineering	Student Night
Apr 19	Sustainability and the Building Environment		Satellite Broadcast/Webcast	
May 8	Schoeps Tour of Cold Storage Facility		Paul Thompson, Schoeps	
Jun 12	Golf Outing	Stoughton Country Club		Social

CHAPTER CONTACTS

OFFICERS:

	<u>Phone</u>	<u>Fax</u>	
PRESIDENT:	Bruce Kimball	(608) 276-9200	(608) 276-9204 kimball@strang-inc.com
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PAST PRESIDENT:	Tom James	(608) 845-6411	(608) 845-6470 TJames1229@aol.com
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	Tim Meeker	(608) 821-8500	(608) 821-8501 tmeeker@arnoldandosheridan.com

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STUDENT ACTIVITIES:	Wayne Prior	(608) 288-8338	(608) 288-8388	prioreng@mcleodusa.net

Advertisers Wanted!

Contact Mark Miller

at

mark.miller@mail.ashrae.org

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