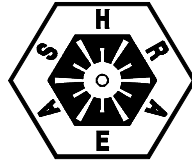


THE BADGERAIRE

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS, INC.

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A PUBLICATION OF THE WISCONSIN CHAPTER OF ASHRAE

Volume Number IV - January, 2006

January Lunch Program: Wisconsin Code Review

Thursday, January 12, 2006

This month Randy Dahmen of the State of Wisconsin Department of Commerce will be our featured speaker. He will discuss the International Mechanical Code changes that went into effect in July of 2002 and maybe some new surprises. His presentation will include an overview of the most frequently asked questions surrounding the new IMC code and areas of the code that are causing the most confusion to designers, engineers, contractors and inspectors. Randy will also allow ample time for our membership to ask questions about codes that they do not understand.

Program Location

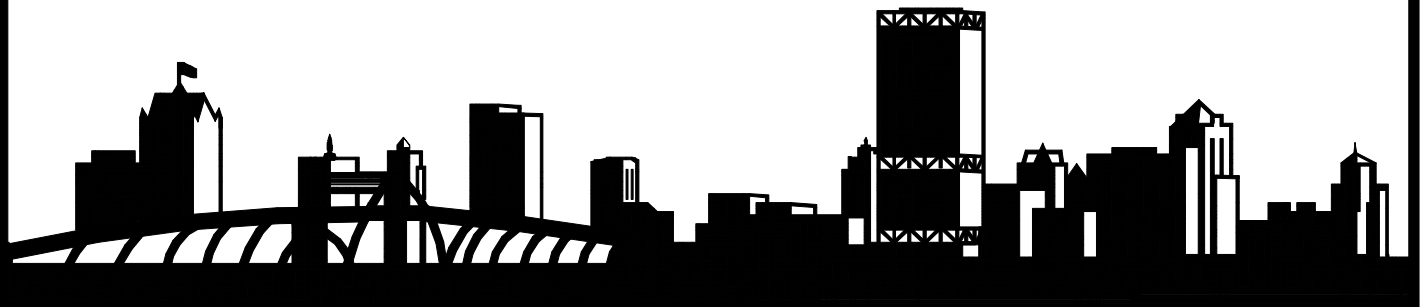
Milwaukee School of Engineering
Todd Wehr Auditorium, 1025 N. Broadway, Milwaukee, WI

Registration:	10:45 A.M. - 11:00 A.M.
Business Meeting:	11:00 A.M. - 11:15 A.M.
Main Program:	11:15 A.M. - 12:15 P.M.
Lunch:	12:15 P.M. - 1:00 P.M.

The program cost of \$20.00 will include a buffet style lunch, including salad, rolls, vegetables, potatoes, a choice of main dishes, a beverage of your choice, and dessert. Checks should be made payable to the "Wisconsin Chapter of ASHRAE."

PLEASE MAKE YOUR RESERVATIONS ONLINE AT WWW.ASHRAE-WI.ORG OR TELEPHONE YOUR RESERVATION TO MAGGIE ROLL @ 414.778.7422. IF CALLING IN YOUR RESERVATION, PLEASE SPELL OUT YOUR LAST NAME ON THE MESSAGE. PLEASE HAVE YOUR RESERVATIONS IN BY CLOSE OF BUSINESS, MONDAY, JANUARY 9, 2006.

THANK YOU



PRESIDENT'S COLUMN

I would like to start this column and this new year of 2006 with a hardy WELCOME and hoping you all had a blessed holiday season. The time went too fast and I know I ate way too much. But that's what shoveling snow is for...right?

I hope everyone who attended the holiday party had a grand time. Many members mentioned to me the like the change of venue to the Polish Center.

I want to thank ASHRAE Past President William Coad for presenting at our chapter meeting last month on energy and design conservation. The technical session he also presented on VAV system history and usage was very informative. However, I think we all need to rattle the bushes to get more of our members to the meetings.

I would also like to remind everyone to attend our January meeting with Randy Dahmen from Wisconsin Safety and Building. Randy is a perennial favorite and his presentations have always been informative and educational.

I want to keep encouraging members to support the society with their company or individual financial pledges. ASHRAE is the world's largest professional society and the design guides, charts, research and development is operated by our financial support.

And as always, please contact me or any member of our board if you have any questions or comments on making your chapter better. We are looking at moving the chapter and its operations in a positive direction. Thank you and see you at the January meeting.

Hussein Badani (Sam)
Wisconsin Chapter of ASHRAE President
Sam.Badani@triadengineering.com

MEMBERSHIP NEWS

Please welcome the following new members:

Catherine Brazzale, Craig Grohman, Andrew R. Johnson, Nathaniel Mattke, John Novak, Michael C. Perleberg, Kay Rowntree, Andrew Steele, Peter

Strande, Jeffrey Thiel, Kevin Tory, Kevin M. Traeger, George M. Turscan, and Phillip Younk.

Impacts of Energy Policy Act of 2005

By Bing Liu, Consultant in Technology

You may have heard about the passage of the recent U.S Energy Policy Act of 2005 (EPA 2005) and are probably wondering what impact it could have on you or your business. The act includes tax incentives for residential customers aimed at promoting energy-efficiency in new homes and encouraging energy-efficiency improvements to existing homes.

New Homes A \$2,000 tax credit is available to builders of homes certified to use 50 percent less energy than a comparable unit constructed in accordance with the 2003 International Energy Conservation Code (IECC). The certification method has yet to be determined. The credit for manufactured homes is \$1,000. "Manufactured homes" (such as mobile homes) must use 30 percent less energy, with one-third of the improvement from the building envelope, or meet Energy Star criteria.

Existing Homes Tax credits are available to homeowners for 10 percent of improvement costs, up to \$500 total, for: Insulation, windows, skylights, and other building envelope improvements. Central air conditioners, heat pumps, ground-source heat pumps, furnaces, boilers, water heaters, and heat pump water heaters. Eligible improvements are subject to a variety of efficiency requirements, including the IECC and Energy Star criteria. Details of some criteria will be determined by the relevant federal agencies.

Small Businesses The owners of small business will also be affected by EPA 2005. One provision of the act creates a Small Business Energy Clearinghouse. This one-stop resource, which is to be accessible by both phone and Internet, will provide advice on how to increase energy efficiency and thereby reduce energy bills. In addition, the law calls for the introduction of new standards for commercial technologies, ranging from refrigerated vending machines to illuminated exit signs. So if you are planning to purchase new equipment for your business in the near future, you will soon be

able to find models that are more efficient than most of what's currently available. In some cases, the law requires manufacturers to produce more-efficient products meeting these new standards as early as next year. We'll keep you posted as new rebate programs become available.

Surviving the Winter

By Doug Abramson, Consultant in Energy

Surviving the Winter of 2005-2006 will be a challenge for many Americans. Residential users with fixed incomes need the most assistance. The recent Hurricane season has left many unanswered questions on the projected supply of both Oil and Gas. The northern sections of the US that will be relying on Oil or Gas products for Heat will experience a higher price than normally expected from inflation alone. ASHRAE members and associated companies should expect a high incidence of calls and questions on how to conserve energy and lower the cost of maintaining adequate environmental conditions.

Is there a shortage of oil or gas? Not really, however it is not unlimited; the expense for recovery and improvements necessary to resume production will influence the cost.

The Secretary of Energy in a Memo to the Department identified conservation as the first step to avoiding the higher cost of heating this winter.

How can ASHRAE help? ASHRAE has the knowledge and mechanism through its local chapters to communicate the means by which both residential and commercial consumers can not only conserve but also be energy efficient. ASHRAE chapters should make an attempt to communicate this information so that the message gets out in time for its use. The sharing of this information at a critical time like this will help ASHRAE become a respected information source for future situations. It is important that the Energy pricing experience of Labor Day Weekend not get lost now that Gasoline prices are going down. The recent Hurricane season has served to remind us that our Energy sources are volatile. The proper or best use of energy should always be in our minds.

<http://www.energysavers.gov/>

Sustainability Topic of ASHRAE Satellite Broadcast

A satellite broadcast is being offered by ASHRAE to fulfill its goal of promoting building sustainability as a means to pro-vide a safe, healthy, comfortable environment while simultaneously limiting the impact on the Earth's natural resources. Information about building sustainability principles, practices and emerging concepts will be presented in the free April 19, 2006, satellite broadcast and Webcast, Sustainability and the Building Environment. The program is sponsored by ASHRAE's Chapter Technology Transfer Committee (CTTC).

"This broadcast will benefit all of the team members involved in the design, construction, start-up, and operation phases of a facility," said Jon Christopher Larry, chair of CTTC. "Viewers will be given information and sources to assist them when they are faced with the situation where a green design must be done. The green building industry will also benefit from the engineering input from ASHRAE."

The speakers for the broadcast will provide guidance on how to practice green building design. They are: Joe Van Belleghem, Partner, Windmill Developments, Victoria, Canada; Hal Levin, Fellow ASHRAE, Research Architect, Building Ecology Research Group, Santa Cruz, California.; Jean Lupinacci, Director, ENERGY STAR Commercial and Industrial Branch, Climate Protection Partnerships Division, U.S. Environmental Protection Agency; Kevin Hydes, P.E., P.Eng., President and CEO, Keen Engineering, Montreal, Canada; and Malcolm Lewis, Ph.D., P.E., President, CTG Energetics, Irvine, California.

Visit www.ashrae.org/greenbuildingsbroadcast for the latest information regarding the broadcast/Webcast and ASHRAE's work on sustainability.

The previous articles were taken from CTTC Issue Update - Annual Meeting Update.

Please remember the Winter Annual Meeting and AHR Expo will be held in Chicago January 21-25. Please visit <http://www.ashrae.org/template/MeetingsLanding> and <http://www.ahrexpo.com/> for more information on these events.

WISCONSIN CHAPTER OF ASHRAE
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MEETING DATE / THEMES	LOCATION	TOPIC	SPEAKER
January 12, 2006 Research and Promotion	MSOE – Todd Wehr Auditorium	Wisconsin Code Review	Randy Dahmen of the Wisconsin Dept. of Commerce
February 16, 2006	TBA	Joint AIA Meeting	TBA
March 16, 2006	TBA	Indoor Air Quality	TBA
April 19, 2006 1:00-4:00pm	Webcast	Sustainability and the Building Environment	Joe Van Belleghem, CA, Kevin Hydes, P.Eng., P.E., Hal Levin, Malcolm Lewis, P.E., and Jean Lupinacci
April 20, 2006 Student Day	TBA	WE Energies	TBA
May18, 2006	TBA	Joint CSI Meeting	TBA

All meetings will be held the third Thursday of every month, except December.

*Please note: This is a tentative schedule; topics may be subject to change.