



INFORMAIRE

JOURNAL OF MADISON, WISCONSIN CHAPTER

AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS

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NOVEMBER *Research Promotion*

Submitted by: Matt Heil

DATE: MONDAY, November 9th, 2009**LOCATION:** Luedtkes Coliseum Bar & Banquet

232 East Olin Avenue, Madison, Wisconsin

TIME:

Technical Session	5:00 to 5:50 p.m. (pg 2)
Social Gathering	5:30 to 6:00 p.m.
Dinner & Discussions	6:00 to 6:45 p.m.
Program Presentation	6:45 to 7:45 p.m.

TOPIC: Wind Tunnel Modeling to Assist in Mechanical System

This presentation will focus on wind and "stack" effects on building pressures and the mechanical system. "Stack" effect refers to the forces due to the buoyancy difference between indoor and outdoor air. The combination of wind and "stack" effects can have a profound influence on the operation of a building. Damage to entry doors, uncontrollable temperatures in spaces, whistling, damage to the building envelope, cold drafts, unwanted odors, and excessive energy loss are some of the consequences of these effects. The presentation will introduce the basic principles, explain methods of modeling these effects, present real life examples, and offer some guidelines for avoiding or mitigating negative consequences.

PRESENTER: Glenn D. Schuyler, MA.Sc., P.Eng.,

R W D & I

*Continued on next page***RSVP:** Register by directing your browser to 11-9-09 or email to **Matt Heil** at Henneman Engineering:ASHRAE@henneman.com. You may also call Matt at (608) 833-7000.Please RSVP by **noon, Thursday, November 5th**

The cost for the meeting is **\$20 for members and \$30 for non-members**, which includes dinner and presentation. The meeting fee will be paid at the door. Please make checks payable to **Madison ASHRAE Chapter**

*(See Meeting on next page)***PRESIDENTS MESSAGE**

Submitted By: Robb Stone

Hello, and Welcome to the November INFORMAIRE!

As the days grow shorter and temperature continues to fall we are reminded that snow is near...and that the Annual Winter Meeting is around the corner!

The ASHRAE Winter Conference and AHR Expo take place in Orlando, FL this year on January 23th -27th. A trip to Florida might be welcome come January. With over 70 Professional Development Seminars and Short Courses available throughout the Conference, there is something for everyone. Discount certificates are available from your Board of Governors.

At our local level, Matt Koukl and Jim Kraus, supported by Gene Nelson, are busy with our Student Activities Committee, looking at opportunities to increase our activity level at all student levels. The three have already spent time in Platteville speaking with the student chapters of ASHRAE and ASME. Carol Mori has kick started the tech ed kids in Lodi with a presentation to the 6th grade class. Please let Jim or Matt know if you have an opportunity to speak with students about engineering. The chapter would like to recognize this effort and report it to the society level. Carol's advice is to bring candy. It holds the kids attention and gets them involved.

This month, Matt Heil has arranged for Glenn Schuyler from RWDI to present Wind Tunnel Modeling for Mechanical Systems Design. Glenn will be traveling from Canada to present so we hope to show our appreciation with a large, enthusiastic group. Again this month, the chapter meeting will be preceded by a technical session. The technical session will be related to exhaust stack design. See Matt's program message for additional information.

A special thanks to Manus McDevitt and Matt Heil for the quick thinking and improvisation at last month's meeting. And thank you to Doug Bergman for providing the technical session before the meeting. Both were well received and attended. As mentioned previously, we continue to look for new and exciting ideas for meetings and training sessions from our membership. Please submit your ideas to Matt for consideration.

As always, if you have any ideas or suggestions for our Chapter, please feel free to contact myself or any of the

BOG members at anytime. We look forward to hearing from you.

Thanks and I look forward to seeing you in this month.

Robb Stone

2009-10 Madison ASHRAE Chapter President
stone@jdreng.com (608) 277-1728

NOVEMBER MEETING

Con't

Glenn joined RWDI in 1981 as a Senior Engineer and became a Principal at RWDI in 1984. He oversees a wide range of studies including air quality, aerodynamics, internal ventilation, energy analysis, and noise control.

This work includes a large number of projects ranging from industrial facilities to university laboratories.

Glenn provides consulting on high performance buildings in the areas of energy use, wind turbines, building envelope performance, ventilation, and human comfort. He has a M.A.Sc. in Aerospace Engineering from the University of Toronto and is a Registered Professional Engineer in the Province of Ontario. He is a member of the International Society for Pharmaceutical Engineers and a Fellow of the American Society of Heating, Refrigeration and Air-Conditioning Engineers.

Please indicate a dinner selection with your reservation:

Prime Rib

7oz cut USDA choice prime rib served with au jus & horseradish sauce baked potato with sour cream and green beans.

Chicken Oscar

Boneless breast topped with crab meat and asparagus tips served with choice of a sherry cream sauce. Served with garlic mashed potatoes with gravy and steamed broccoli spears.

Roasted Spiced Tuna Steak

Served with red pepper & corn relish, fettuccine with alfredo sauce and maple glazed baby carrots.

Vegetable Lasagna

Roasted Italian vegetables layered with ricotta & provolone cheese. Baked & topped with homemade marinara & served with a bread stick.

TECHNICAL SESSION

Submitted By: Matt Heil

Introduction to Exhaust Dispersion for Exhaust Stack Design

This session will provide an introduction to the basic concepts of dispersion modeling, demonstrate numerical and wind tunnel modeling methods, and provide some useful guidance on exhaust stack design.

This session will take place prior to the meeting at 5:00 p.m. at the Coliseum Bar and Banquet

MEETING MINUTES

Submitted By: Mike Gall

The latest meeting minutes can be found by selecting the following links.

[Madison BOG Minutes 9-23-09](#)

Thanks. *Mike Gall*

MEMBERSHIP PROMOTION

Submitted By: Dan Bergmann

We would like to congratulate **Scott Brabender, John Freiburger, Scott Schuetter, Bret Bunderson, and Noel VandeBerg** as our new ASHRAE members. In addition we would like to welcome **Michael Kilkenny, Michael Udelhoven, and Darrin Anderson** as our new ASHRAE student member. Please help us to make them feel welcome to our organization.

As always, 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 you can change it online. To change your information online go to www.ashrae.org, go to the "Members Tab" at the top left, click on "Manage Membership", and finally click "Address Change" in the center of the page. This will lead you to the link and you can update your information. Once again, if you send us your updated information, we are happy to take care of this for you, but we ask that you provide us with your member number, 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. If you sign up online be sure to select the "Madison" ASHRAE chapter so you are assigned to the correct local chapter. If you know of anyone not receiving the Monthly INFORMAIRE please contact Mark Miller to be placed on the email distribution list.

INTRODUCTION TO ENERGYPLUS

Submitted By: ECW

The Energy Center of Wisconsin is offering training on a modeling software called EnergyPlus. Join in an introduction to EnergyPlus: Energy Simulation Software

Presenter: Michael J. Witte, Ph.D., Principal Engineer, GARD Analytics, Inc.

November 18-19, 2009 | Wauwatosa, WI

www.ecw.org/university/ecuevent.php?ecuid=233

PARTNERING

Submitted By: Sharon Gould

The Madison ASHRAE Chapter has been partnering up with other societies up over time. We have had joint meetings with many other societies and round table discussions on various joint topics. We are continuing to reach out to new societies. In September we partnered up with the Energy Center of Wisconsin for the presentation with Terry Townsend. We are looking to having joint meetings with the local chapter of AIA (American Institute of Architects) and WAE (Wisconsin Association of Energy Engineers). These joint meetings foster communication and better working relationships across different disciplines. We all learn from each other. When we have approached these different societies, we are usually met with great interest.

If anyone has any ideas of other organizations that our chapter can partner up with, to discuss a common goal, please forward them the Sharon Gould (sgould@franklinenergy.com). I look forward to hearing your ideas.

RESEARCH PROMOTION

Submitted By: Gene Nelson

It is time to reflect about what we accomplished last year. The November Chapter meeting will be "RESEARCH PROMOTION NIGHT". We will be thanking all of you who helped us exceed our \$16,000 goal by \$254. Many of you who contributed up to \$500 should have received a personalized thank you letter and medallion from Society in September. If you did not let Tim or I know and we will follow up with Society. For the five donors who contributed over \$500 we will be offering a special presentation at the November Meeting. These include Masters Building Solutions, Hooper Corporation, H&H Industries, Marshall Erdman & Associates, and the Heating Piping Cooling Council. Again thank you for a great year.

It's time to start about thinking about this year's campaign. All monies donated to ASHRAE Research are matched and help fund the handbooks which we all use, the technical committees which promote new research, and the research grants given to research organizations. Many of those dollars come back to our Region VI and help support both research in our industry and our local economy. So please give ASHRAE due consideration when we call. We will be sending letters to past donors in the next few weeks and we will be following up with phone calls.

As promised, we will have a raffle form time-to-time to help raise RP awareness and to raise some monies from donated prizes. The first one will be at the November meeting. Details will be explained at the meeting, so come join the fun.

Again we want to thank you for your continuing support.

Respectfully,

Gene Nelson, Tim Meeker, Madison ASHRAE RP Co-chairs

ASHRAE ANNOUNCEMENTS

Submitted By: Mark Miller

ASHRAE announcement this past month headlines are listed below. To find out more about the, search them out at www.ASHRAE.org:

- **Learning Institute is Sustaining Energy by Sustaining Professional Development**
- **Building Energy Use Highlighted in Newest ASHRAE Certification Program**
- **ASHRAE Makes Information on Datacenters More Accessible in CD Form**
- **Energy Efficiency Today Ensures Prosperous Economic Future, Declares President Obama**
- **ASHRAE Seeks Proposals on User's Manual for Green Buildings**
- **ASHRAE Headquarters Receives Highest LEED Certification**
- **Here Comes the Sun: ASHRAE to Act as Supporting Sponsor of 2009 Solar Decathlon**
- **Winter Conference Technical Program to Focus on Humidity, Indoor Environments**
- **Sessions to Boost Efficiency, Sustainability of Contractor Projects Featured at AHR Expo**

MADISON ASHRAE CONTACTS

OFFICERS:

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	Sharon Gould	sgould@franklinenergy.com

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ACTIVITIES:	Jim Kraus	jkraus@fpm.wisc.edu
WEBMASTER:	Zach Obert	zacho@weccusa.org

PROGRAM SCHEDULE

	Topic	Location	Speaker (s)	Theme
Sep 14	Advance Energy Efficiency Guide for Existing Buildings	Doubletree Inn	Terry Townsend	Membership Night
Oct 12	Tour-Wisconsin Institute for Discover and Morgridge Institute for Research	Quality Inn & Suites Fitchburg, WI	Manus McDevitt Sustainable Eng	Student Night
Nov 9	Wind Tunnel Modeling in Mechanical System Design	The Coliseum Bar	Glenn Schuyler; VP of RWDI Canada	Research Promotion Night
Dec 14		Nakoma Golf Club		Past Presidents /Meeting with SMACNA
Jan 11				Student Night
Feb 8				Refrigeration
Mar 8				CTTC / Research Promotion Night
Apr 12				
May 10				
Jun 8	Golf Outing	Stoughton Country Club		Social

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(Address Correction Requested)

