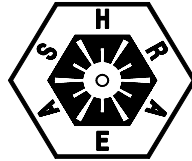


THE BADGERAIRE

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

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A PUBLICATION OF THE WISCONSIN CHAPTER OF ASHRAE

Volume Number VII – April, 2007

April Program: Implications of Standard 62.1 & 90.1 on VAV Systems Thursday, April 19, 2007

On April 19th, 2007 the Wisconsin ASHRAE Chapter will be putting on a program in regards to the implications of Standard 62.1 and 90.1 on the design of VAV systems. This discussion will focus on how ASHRAE Standard 62 altered the challenge of HVAC design in 1989, and will specifically focus on the challenges Standards 62.1 and 90.1 present for VAV systems. The discussion will cover current Standard requirements, documentation required, design practices, strategies for achieving compliance, and ways to quickly identify non-compliant designs. This presentation is intended to provoke Standard related questions and discussions as to the adequacy of common designs, and design practices.

This presentation will be given by Mark Lentz, P.E., President of Lentz Engineering Associates, Inc., in Sheboygan Falls. Mr. Lentz has been a member of the Wisconsin Chapter of ASHRAE since 1983. His work has been featured by the US Department of Energy since 2000 and he received a national honor for his contributions to energy conservation from DOE, in 2005. He is the recipient of the ASHRAE Distinguished Service Award (2001), an ASHRAE Technology Award (1988), and Symposium Paper of the Year Award (1991). In addition to having served for over 20 years at the Technical Committee level with ASHRAE, Mr. Lentz has also served as Chairman of TC 9.8, Vice-Chairman of TC 5.7, as a Consultant to ASHRAE SSPC 90.1, and as a Liaison between ASHRAE SSPC 62.1 and ASHRAE Technical Committees TC 5.7 and TC 9.8. The ASHRAE Health Care Facilities Design Manual was created under his leadership.

A technical session on indoor air quality and demand control ventilation will also be provided by Jim Werket from PureChoice prior to the main program.

Program Location

Klemmers Banquet Hall
10401 W. Oklahoma Ave.
Milwaukee, WI

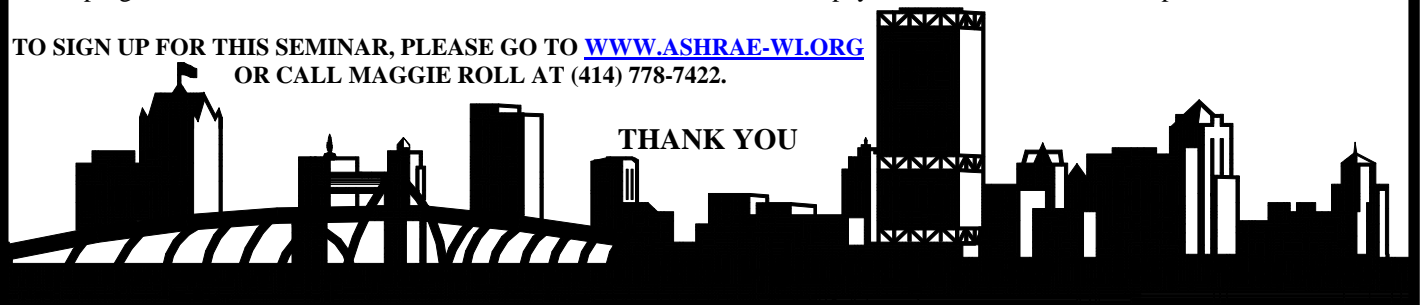
Technical Session:	4:00 p.m. – 4:30 p.m.
Registration & Social Hour:	4:30 p.m. – 5:30 p.m.
Dinner:	5:30 p.m. – 6:00 p.m.
Program:	6:00 p.m. – 7:00 p.m.

Prices:

The program cost of \$20.00 will include a dinner. Checks should be made payable to the "Wisconsin Chapter of ASHRAE."

TO SIGN UP FOR THIS SEMINAR, PLEASE GO TO WWW.ASHRAE-WI.ORG
OR CALL MAGGIE ROLL AT (414) 778-7422.

THANK YOU



PRESIDENT'S COLUMN

Hello everyone. I would like to start this month's column off by thanking Roy Ahlgren, of ITT Fluid Handling, for taking time out of his busy schedule to share his "Saving Energy in Hydronic Systems" seminar with us in March. In talking with those of you who were able to attend, it sounds like the seminar was very interesting and educational.

As I have mentioned the past few months, ASHRAE Region VI CRC is coming up May 3rd through 5th, 2007 in Madison, WI. The Madison Chapter has done a great job putting the conference together, with the highlight of the conference being the Technical Program, held on Friday, May 4th. Attendees will be able to select from a number of exciting technical presentations in the areas of Innovation and Research, Sustainability and LEED, and Indoor Environmental Quality. The Presidential Luncheon on Friday will feature the current and/or incoming ASHRAE Society President. For more detailed information on the Technical Program, including specific presentation topics and presenter bios, please go to:
http://www.ashraemadison.org/crc_programs.htm

Continuing education credit will be available for those who attend technical sessions. The cost for the Technical Program, including the Presidential Luncheon, is \$160. I believe this cost is very reasonable given the quality of speakers presenting and the number of presentation options available to attendees. Having the CRC this close also makes it very convenient to attend. If you have questions regarding CRC please feel free to contact me at any time.

Our upcoming meeting, being held on April 19th, will feature a technical session before dinner and a main program after dinner. The technical session will focus on demand controlled ventilation technologies. Allan

Bassett, of Bassett Air Quality, and Jim Werket, of PureChoice will be presenting this session. The main program will be entitled "Implications of Standard 62.1 and 90.1 on VAV Systems" and will be presented by Mark Lentz, of Lentz Engineering Associates, Inc. This program is sure to raise a number of interesting issues regarding two very important ASHRAE Standards, both of which are prerequisites for LEED Certification.

Please remember to plan ahead for our May program, which will be presented by Julian de Bullet, Director of Industry Relations for McQuay International and an ASHRAE Distinguished Lecturer. His two programs will focus on energy analysis in building design and green HVAC design. The program will be held May 17th in the evening. Location and exact times will appear in next month's newsletter.

If you have questions about any of the information in this newsletter please feel free to contact me at any time. I look forward to seeing you at our meeting on April 19th. Thank you.

Corey Metzger
Wisconsin Chapter of ASHRAE President
corey-metzger@mchsi.com

MIKE STRAM GOLF TOURNAMENT

The Mike Stram Open Golf Tournament is almost here and promises to be a day of fun and excitement. There will be golf, lunch, dinner, door prizes, raffle and flag events. Thank you ever so much for your Sponsorship/Participation last year. With your help last year over \$3500 was donated to the Scholarship Program. We hope we can count on your continued support this year.

This year we will have our outing at the Muskego Lakes Country Club on June 4th. This year we are only having an afternoon session

starting at 12:00pm (Scramble). Grill Lunch At the Turn is included for all players. Dinner will be **AWESOME**.

SPONSORSHIP LEVELS: Major - \$1500, Gold - \$500, Silver - \$350, Hole/Green - \$200, Door Prize \$100 & Beverage Cart Sponsor - \$1000. Sponsors will be recognized at the banquet. Revenue from this day of golf and camaraderie will be donated to the Gustav A Larson Scholarship Fund. We thank you for your donation/participation and your continued support in making this a very successful outing each year.

The day schedule will be as follows:

Golf Afternoon Session:

12:00 noon Shotgun Start (Scramble)

Evening Activities:

4:30 pm Social Hour

5:30 pm Dinner

Only a paid reservation will assure you a spot on the golf course. The reservation and fees should be mailed to:

ASHRAE ENTERTAINMENT COMMITTEE
c/o JMB & Associates, Jim Boland
N50 W13906 Overview Dr
Menomonee Falls, WI 53051

Technical Session #1

Track I - White Roofs in Northern Climates
Track II - Energy Optimization Examples
Track III - Ventilation Fundamentals, 62.1-2004 and LEED EQ Credits 1 & 2

Technical Session #2

Track I - Practical Applications of Renewable Energy
Track II - Energy Modeling to Meet LEED Requirements
Track III - Outdoor Air and Demand Control Ventilation

Technical Session #3

Track I - Practical Applications of Renewable Energy - Case Studies
Track II - Geothermal Applications / Resources / Case Studies
Track III - Ventilation Heat Recovery

Technical Session #4

Track I - What is Needed for 50% Approach for Zero Net Energy Use
Track II - Measurement and Verification - How to Meet LEED
Track III - Dedicated Outdoor Air Systems

Please go to www.ashraemadison.org/crc2007.htm for more information.

CRC NEWS

[Region VI](#) Chapter Regional Conference (CRC) will be held in Madison, Wisconsin, Thursday, May 3rd through Saturday, May 5th.

The conference will be held in the impressive [Monona Terrace](#) on the isthmus where the Wisconsin state capitol resides.

There are three different Technical Session options on Friday. They include the following:

ATTENTION

Are you looking for a new employee?
We accept classified listings for job opportunities in the HVAC industry. If interested in posting a classified, please contact Maggie Roll at mroll@ringdu.com or 414.778.7422. The charge for a classified is \$175/month to be used towards Research Promotion and Student Activities.

HVAC ENGINEER

Tower Mechanical Services of Oshkosh, WI is a full service mechanical contractor of H.V.A.C., plumbing and pipe fitting since 1998 with annual sales between 7 to 10 million. We are currently looking to fill an opening for an HVAC Engineer due to our recent growth.

The primary requirements of an effective HVAC Engineer is an overall ability to meet the needs of commercial and light industrial clients while meeting corporate objectives. Position requirements are as follows:

Customer Service

- Design / Build market
- Plan & Spec market
- Building and maintaining client relations
- Competitive job quoting
- Effective quote follow-up
- Process and execute customer requisite
- Application and service problem solving

Engineering

- Heat gain/loss calculations
- Envelope compliance calculations
- Design calculations
- Equipment selection and application
- AutoCAD drafting and specification
- Submittal preparation
- Site survey

The HVAC Engineer is responsible for the design of HVAC systems with utilization of proper equipment. This necessitates a team approach with both outside and inside salespeople and/or an individual approach requiring the engineer to make field sales calls on builders and other customers. Minimum requirements for employment include: PC literacy, great communication skills and a minimum of 5 years of experience in design. Registration as a Professional Engineer or Designer is required.

All interested applicants should forward their resume in confidence to:

Tom Tease
General Manager
Tower Mechanical Services
PO Box 2552
Oshkosh, WI 54903-2552
PH: (920) 426-3005
FX: (920) 426-2927
Email: ttease@towermechanical.com

WISCONSIN CHAPTER OF ASHRAE
P.O. BOX 13643
WAUWATOSA, WI 53186-0643



MEETING DATE / THEMES	LOCATION	TOPIC	SPEAKER
April 18, 2007	WEBCAST 12pm-3pm	Indoor Environmental Design: Practical Solutions to Everyday Problems	
April 19, 2007 Evening Meeting	TBA	Implication of Standard 62.1 and 90.1 on VAV Reheat Systems	Mark Lenz
May 17, 2007 Evening Meeting	TBA	Energy Analysis: Option or Necessity?	Julian deBullet
June 4, 2007	Muskego Lakes Country Club	Mike Stram Open Golf Tournament	
June Evening Meeting	Pettit Center	Pettit Center Tour and Ice Skating	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.