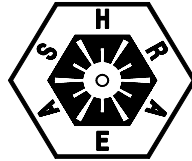


THE BADGERAIRE

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

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A PUBLICATION OF THE WISCONSIN CHAPTER OF ASHRAE

Volume Number III, November, 2006

November Program – Brengel Technology Center at Johnson Controls WEDNESDAY, November 15, 2006

The November chapter meeting will be a tour of the Brengel Technology Center at Johnson Controls hosted by Ward Komorowski of Johnson Controls. Ward is the Director of Facilities and Building Services at Johnson Controls and 2005 Facility Executive of the Year. The tour will be approximately one hour and will focus on the sustainable design of the Brengel Technology Center. Komorowski's innovative strategies have contributed to short-term, bottom line benefits for Johnson Controls and long-term corporate success. Ward's approach to sustainability has been a model to other facility executives nationwide.

Program Location

Brengel Technology Center at Johnson Controls
507 E. Michigan St. Milwaukee, WI

Registration: 4:30 p.m. – 5:00 p.m.
Program: 5:00 p.m. – 6:00 p.m.

Joey Buona's Pizzeria and Restaurant
500 N. Water St. Milwaukee, WI

Dinner: 6:30 p.m. – 7:30 p.m.

The program cost of \$20.00 will include dinner.
Checks should be 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, NOVEMBER 13, 2006.

THANK YOU



PRESIDENT'S COLUMN

Hello again. I received a great deal of positive feedback regarding our tour of the Wisvest Thermal Energy Services plant on October 19. I hope all who attended enjoyed it as much as I did. Please join me in thanking John Hyland of Wisvest for allowing us to tour the facility and for being such an accommodating host. I would also like to thank Gregg Achtenhagen for acting as one of the guides for the tour. Our meeting this month should be another very interesting and informative tour at the Johnson Controls Brengel Technology Center. Please note that the tour is on a Wednesday evening this month.

ASHRAE Society President Terry E. Townsend, P.E. has made "The ASHRAE Promise: A Sustainable Future" the theme for his term. Our tour of the Brengel Technology Center (a LEED Certified Facility) this month will be the first of a few meetings this year focused on sustainability and green design. Our May meeting will feature Julian de Bullet, an ASHRAE Distinguished Lecturer, speaking directly about green design. We also have meetings focusing on ASHRAE Standards 62.1 and 90.1, both of which can be related to sustainability and green design. I hope the topics of these presentations will be of interest to all of you.

On October 12th we held our first Student Chapter/YEA Social Function for the year. I believe those who were in attendance enjoyed themselves. We are planning on having another social function in a January or February. I hope those of you who couldn't make this gathering will consider coming to future get-togethers.

In last month's newsletter I indicated that we intend to begin offering continuing education credit at upcoming meetings when possible. There is a short article in this newsletter outlining the programs for which we intend to offer continuing education credit, and the amount of credit we expect to offer at each of those programs.

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 tour on November 15th. Thank you.

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

Continuing Education Credit Information

This article briefly summarizes our scheduled meeting topics and PDH's (Professional Development Hours) offered at each. The first meeting offering continuing education credit will be our January meeting. At this meeting we plan to offer two PDH's for those who attend the tech session and the main presentation, or one PDH for attending one or the other. The main presentation will feature Dennis Stanke of Trane. Dennis is the current Chair of the ASHRAE Standard 62.1 Committee. In February, Randy Dahmen's code update presentation will offer one PDH. The March is a full day seminar with Roy Ahlgren (Director of Bell and Gossett's Little Red Schoolhouse) and will offer approximately four to six PDH's. In April we plan on offering two PDH's with a tech session and our main presentation by Mark Lentz discussing the implications of complying with both Standards 90.1 and 62.1 while designing VAV systems. In May we plan on offering two PDH's with Julian de Bullet of McQuay, an ASHRAE Distinguished Lecturer, presenting two programs. If you were to attend all of these meetings you could earn up to 13 PDH's, which should come close to meeting yearly requirements for most state licensing boards.

ATTENTION!

Saving Energy in Hydronic Systems

On March 15th, 2007 the Wisconsin ASHRAE Chapter is pleased to announce they will be sponsoring a day-long seminar on Saving Energy in Hydronic Systems. The featured speaker for the seminar will be Roy Ahlgren, the Director of the ITT Fluid Handling's Training & Education Department teaching courses in steam and water system through ITT Bell & Gossett's Little Red Schoolhouse. He is a past chairman of the ASHRAE Technical Committee TC6.1 Hydronic and Steam Equipment and Systems. Roy is also the author of many booklets and articles on Fluid Handling topics.

With the recent and continued push within ASHRAE to design and incorporate energy efficient systems; this seminar will assist in energy saving techniques through pumping applications. This practical course will be a great opportunity to focus on pump fundamentals, hydronic systems, pump selection, parallel & series pumping, system control, system balance, primary-secondary pumps, air management, open and closed systems, and the use of variable flow systems.

Location and prices for the seminar are to be determined at a later date, with food and beverages for the entire day. Options will be available for half-day attendance at a reduced rate. Look for sign-up options next month.

ASHRAE '07 in Dallas ASHRAE Winter Meeting Centers on Energy Efficiency

ATLANTA – ASHRAE will be showing off its technical expertise at the 2007 AHR Expo in January. For the first time, 16 technical sessions will be held at the AHR Expo during the 2007 ASHRAE Winter Meeting in Dallas. Designed to share ASHRAE's technical guidance with Expo attendees, the sessions include topics such as vibration control, energy-efficient ventilation systems, using ground-source heat pumps in schools, and new BACnet capabilities.

“Offering attendees an opportunity to learn about the latest advancements in technology via the technical program complements the Expo, which features those advancements being incorporated into products and equipment,” says Ginger Scoggins, chair of the program committee. “These sessions make ASHRAE's meeting and top-rate technical program more visible while at the same time drawing more meeting attendees to the expo.”

In addition, ASHRAE will present a comprehensive technical program at the Adam's Mark Hotel, January 28-31. The overall six-track technical program centers around energy efficiency in buildings and includes such seminars as Achieving a 50 Percent Approach to Net Zero Energy Use in Buildings and Risk Management of Infectious Airborne Diseases. The technical program consists of 67 seminars plus the 16 seminars at the convention center, 12 open-discussion forums, one public session, one poster session with 21 papers presented, and 18 transaction sessions with a total of 48 papers presented.

Also new for this year is the technical plenary speaker, National Geographic Magazine Executive Editor Dennis Dimick. Dimick, a picture editor specializing in environmental stories for more than 15 years, will address

technical program attendees between sessions on Sunday, Jan. 28 at 9:30 a.m. at the Adam's Mark hotel about a 2004 project he oversaw on global climate change. Meeting registration is required to attend.

Registration for the 2007 ASHRAE Winter Meeting is \$630 (\$360, ASHRAE member) prior to Nov. 17. After Nov. 17, the registration fee will be \$655 (\$385, ASHRAE member). The deadline for advance registration is December 15. For more information or to register, visit www.ashrae.org/dallas.

Career Opportunity

Mechanical Engineer
Junior Level
Milwaukee, Wisconsin

Symbiont, headquartered in Milwaukee, Wisconsin, is a multi-disciplined engineering and design-build firm that offers challenging and rewarding growth opportunities to our employees. Our client base includes multiple Fortune 100 companies, and municipal, state, and federal agencies. We are currently seeking a mechanical engineer with 2 to 5 years of experience.

Job duties will include design engineering of HVAC systems, pumps & piping systems, as well as a variety of other interesting mechanical assignments. Duties will also include developing operation and maintenance manuals, reviewing shop drawings from equipment suppliers, scheduling subcontractors for project construction, cost estimating and proposal development.

The ideal candidate will have a bachelor's or master's degree in mechanical engineering. A minimum of 2 years of consulting engineering experience is preferred. The selected candidate will have strong academic credentials, demonstrated verbal and written communication skills, as well as excellent professional and academic references. Experience with the design of HVAC systems and pumping & piping systems is preferred, but not required.

Symbiont offers a competitive salary and benefit package. Qualified candidates should submit resume and cover letter to:

Symbiont
6737 West Washington Street
Suite 3440
West Allis, Wisconsin 53214
Attn: CJD

No Recruiters / Please refer to Job No. WI0906-1

Email resume via our website at:
www.symbiontonline.com

WISCONSIN CHAPTER OF ASHRAE
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 10101 INNOVATION DR., SUITE 200
 MILWAUKEE, WI 53226



| MEETING DATE / THEMES | LOCATION | TOPIC | SPEAKER |
|---|-----------------------|--|---|
| Wednesday, November 15, 2006 Evening Meeting | Joey Buono's | Sustainability in Design – A Tour of Johnson Controls @ JCI Brengel Center | Ward Komorowski |
| December 1, 2006 Holiday Dinner Dance | Westmoor Country Club | N/A | N/A |
| January 18, 2007 Evening Meeting | Alioto's | Standard 62.1 – 2004 | Dennis Stanke |
| February 15, 2007 Lunch Meeting | MSOE | Wisconsin Code Review | Randy Dahmen of the Wisconsin Dept. of Commerce |
| March 15, 2007 All day Seminar | TBA | Energy Savings in Hydronics | Roy Alghren |
| April 19, 2006 Evening Meeting | TBA | Evaporative Cooling Techniques | TBA |
| May 17, 2007 Evening Meeting | Milwaukee County Zoo | Tour of a Cold Storage Facility or Milwaukee County Zoo | TBA |
| June Evening Meeting | Milwaukee County Zoo | Tour of a Cold Storage Facility or Milwaukee County Zoo | 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.