



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

LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon March 31/2014

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Topic

Evaporative Cooling & Adiabatic Humidification: Applications, Benefits and Energy Savings

Speaker

Stefano Ruzzon Business Development Manager Carel USA

Meeting - Mon March 31/2014

FOUR POINTS HOTEL
1150 Wellington Rd S
London

5:30pm-Social 6:00pm-Dinner
7:00pm to 8:00pm - Program

ADVANCED PAYMENT BEFORE MEETING
by using PAYPAL
use the chapter web site to register and pay
<http://LondonCanada.AshraeChapters.org>

\$50 Members and Guest (prepaid)
\$10 Students (prepaid)

\$60 CASH AT DOOR
\$15 for Students

Presidents Message

Spring is here! We can shake off the frost of our long winter, assess our heating equipment's performance, and get ready for what's hopefully a long cooling season. As we begin to thaw we our chapter year approaches its end; yet there is still much to explore. We have two more chapter meetings, the Webcast, and our Golf Tournament. After a short summer break, we start the next chapter year off with the CRC! Planning is underway for that CRC in Grand Bend, stay tuned for more detail as it would be great to have everyone from our Chapter present!

Our February meeting featured ASHRAE Distinguished lecturer, David Underwood. His presentation was innovative, interesting and generated some terrific discussion. Thank you for your participation and your continued support of the distinguished lecturer program. On March 31, we are meeting at the Four Points Sheraton and we will hear from SPEAKER presenting TOPIC. In attendance will be three Regional Board members: Isabelle Lavoie (Director and Regional Chair), Michael Khaw (RVC Membership), and Robin Ellis (RVC Student Activities). Their visit will give us the opportunity to engage in discussion about their activities and how our chapter aligns with the regional direction. The advanced registration link has been sent, if you missed don't fret, as another will soon follow. Please feel free to contact Ibrahim or Khalid with any questions.

Mid-April, is the ASHRAE webcast. Please continue our chapter long-standing support of this innovative presentation.

Coming in June is the ASHRAE Golf day. Registration is open, feel free to send me an email or give me a call with any questions.

Thanks again for your continued support and participation, I will see you next week.

Jamie Kruspel
 Chapter President 2013/2014
 ASHRAE London Canada Chapter

Feb Meeting Summary

David Underwood, P.Eng, ASHRAE Treasurer, Fellow Life member, made the visit from Toronto to speak on Tips, Tricks & Techniques of Commissioning. The presentation covered what commissioning involved, why commissioning is important, items commissioning reviews, and other related items. David also visited the UWO to speak to the students about ASHRAE.

The presentation power point slides can be found on the chapter web site.

Upcoming Chapter Meetings

Monday Apr 28/2014 - Tour Night
 Monday Jun 2/2014 - Golf Tournament

Other Meetings

Thu April 17/2014 ASHRAE WEBCAST - Buildings in Balance: IEQ and Energy Efficiency
<https://www.ashrae.org/membership--conferences/webcasts>

June 28 to July 2, 2014 - ASHRAE Annual Conference - Seattle, WA (see ashrae.org)

Meeting Survey

If you attend the chapter meeting, be sure to complete the meeting survey that is emailed out and you will be entered into a draw for a bottle of wine at the next meeting.



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Speaker Bio

Stefano Ruzzon
Business Development Manager
Carel USA



Stefano has focused on cross-functional collaboration to identify, prioritize and design products and services to meet business requirements. Experience in business analysis, project and product management. Commercially focused. Product management of B2B and B2C product lines. Management of multiple product lines including humidifiers and water treatment systems.

Specialties include New Product Development, Revenue Growth and Profitability, Cross-Functional Team Leadership, Product Life-Cycle Management, Successful Product Launches, Project Management, Strategic Product Planning and Positioning, Market Research and Analysis, Competitive Benchmarking, Seminars, Training and Trade shows.

Topic

Working principles and applications of Evaporative Cooling and Adiabatic Humidification

- Items to be covered include:
- Evaporative cooling concept
- Direct and Indirect evaporative cooling
- Humidity control (winter time) and Indirect evaporative cooling (summer time) in only one solution
- Real application example about indirect evaporative cooling
- Energy saving benefits

Research

Please be sure to forward your personal or company donation to ASHRAE RESEARCH CANADA. These funds are distributed by ASHRAE Society to create the handbook and standards that all hvac designers, engineers and contractors use every day.

Thank you for your donation

HRAI

SkillTech Academy Presents: "Indoor Air Quality for HVAC"
 A One Day Interactive Workshop - Friday, April 4, 2014 in London.
 Presented by Gord Cooke
 This workshop will cover the "Fundamentals" of Indoor Air Quality

See: <http://www.hrai.ca>



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BACnet



Membership

Greetings from the Membership Chair,

The 2013-2014 ASHRAE year has been a successful one so far for Membership Promotion here at the London Chapter. We started the year off with 116 members, and we have grown our membership to 126! We have a lot to be positive about, and there is an exciting youth movement within our Chapter that will hopefully provide a strong base for the future. We have had a total of 14 new members join, 8 of which are also YEA members (35 years old or younger).

This month is our 2nd and final Membership Promotion Night for the year. We will have a special guest in attendance – Michael Khaw who is the Regional Vice Chair for Membership Promotion for our ASHRAE Region. I have had the pleasure of meeting Michael on several occasions during my time as MP Chair for London, and his energy and passion for ASHRAE is infectious. I encourage you all to come out to our March Meeting to say hi to Michael and to show him our support for the London Chapter.

I continue to encourage you all to renew your ASHRAE Membership on time. If you have any questions please do not hesitate to contact me.

I look forward to seeing you all at the next meeting!
Best Regards,
Jeff Watson
Membership Promotion Chair 2013/2014
ASHRAE London Chapter

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ASHRAE WEBCAST - APRIL 17, 2014

Don't miss out on the newest installment of ASHRAE's FREE Webcast series — "Buildings in Balance: IEQ and Energy Efficiency." The upcoming webcast will broadcast live on April 17, 2014.

This webcast will feature industry experts who will identify the link between energy efficiency and Indoor Environmental Quality (IEQ) through the integrated design process. Viewers will be able to recognize the importance of the four cornerstones of IEQ and how system selection can benefit both energy efficiency and IEQ.

Registration for the 2014 Webcast will begin on March 17, 2014 at
www.ashrae.org/ieqwebcast
There is no fee for registration.

Student Activities

Since the first day of spring brought a cold disappointment, YEA would like to lift our spirits with a tour of the John Labatt Brewery. As a part of the National Engineering Month, PEO of London is organizing a few events, one being the tour of the Labatt Brewery. I have been in contact with the organizers and they have no problems with us joining. The tour is schedule for March 27th at 6:00pm. Tickets to register would be \$10 at the door. Since this will be a good opportunity to get more members out to events, we will head on to Palasad South once again after the tour has finished. Please let me know if you will be attending the tour, as space is limited. If you only plan to attend Palasad, we will likely be arriving around 7:30pm. I hope to see everyone there.

Regards,
Nikola Zubic
Student Activities Chair

Revised ASHRAE Standard Helps to Compare Building Energy Performance

ATLANTA—When it comes to the how-to of measuring a building's energy use, there is much to take into consideration. Are the measurements of a building's area—used in the equation to derive energy use per square foot—to be taken from the exterior dimensions or to the centerline of the wall? Since they are normally unoccupied, are storage spaces to be included or not?

The newly revised ANSI/ASHRAE Standard 105-2014, Standard Methods of Determining, Expressing, and Comparing Building Energy Performance and Greenhouse Gas Emissions, supports commonality in reporting the energy performance of existing or proposed buildings to provide a consistent method of measuring, expressing and comparing the energy performance of buildings.

"A standard method of measurement is needed in order to be able to compare one building's energy use to another," Keith Emerson chair of the Standard 105 committee, said. "For instance, comparing one building's summer energy use to another building's winter use would be comparing apples and oranges."

According to Emerson, the new edition of Standard 105 now includes procedures for going beyond site energy to calculate the impact of building energy use on primary (source) energy and greenhouse gasses.

It also provides a common basis for reporting building energy use in terms of delivered energy forms and expressions of energy performance; for comparing design options; and for comparing energy performance in terms of energy resources used and greenhouse gas emissions created, both across buildings and for energy efficiency measures within buildings.

"To keep the standard flexible, a number of decisions are left to those who adopt it, including what should be calculated beyond site energy and the multipliers for those additional calculations," Emerson said.

Primary energy and greenhouse gas equivalence conversion factors have been left to the discretion of the adopting agencies and authorities, which are available from a number of sources, including an informative appendix in the standard. The standard has also been upgraded to code enforceable language.

The cost of Standard 105-2014, Standard Methods of Determining, Expressing, and Comparing Building Energy Performance and Greenhouse Gas Emissions, is \$58 (\$48 ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 678-539-2129, or visit www.ashrae.org/bookstore.

ASHRAE Publishes 2013 Version of MOT for BACnet Conformance

ATLANTA – New tests and test improvements are included in the newly published ANSI/ASHRAE Standard 135.1-2013, Method of Test for Conformance to BACnet.

The standard was published this week by ASHRAE. The standard defines a standard method for verifying that an implementation of the BACnet protocol provides each capability claimed in its Protocol Implementation Conformance Statement (PICS) in conformance with Standard 135, BACnet® -- A Data Communication Protocol for Building Automation and Control Networks.

Standard 135.1 provides a comprehensive set of procedures for verifying the correct implementation of each claimed capability, including BACnet services (as initiators, executors, or both), BACnet object-types (including both required properties and optional properties), the BACnet network layer protocol, data link options and all special functionalities.

The newly published standard includes new tests for new extensions to the BACnet standard; numerous test improvements developed in cooperation with the BACnet Testing Laboratories; and references the latest version of Standard 135, published in 2012, according to Carl Neilson, chair of the Standard 135 and Standard 135.1 Committees.

"The new tests are significant and wide sweeping across the standard," he said. "The new tests cover new functionality that has been added to the BACnet standard over the past six to 10 years. We are continuing to work on advancing the test standard to ensure it continues to have coverage as the BACnet standard is extended / maintained."

The cost of ANSI/ASHRAE Standard 135.1-2013, Method of Test for Conformance to BACnet, is \$119 (\$101, ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 678-539-2129, or visit www.ashrae.org/bookstore.



Join us at ASHRAE's 2014 Annual Conference
June 28–July 2 | Seattle, Washington | www.ashrae.org/seattle

Special first time attendee registration fee available!

Join ASHRAE in Seattle! Take advantage of the opportunity to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design, through the technical program; participate in technical tours; attend ASHRAE Learning Institute courses; and earn professional credits.

Research Summit – held in conjunction with the 2014 Annual Conference. The summit addresses the latest research results, innovative research techniques and forecasts future research directions.

Technical Program – presentations and papers focus on current research worldwide; core HVAC&R applications and systems; and Integrated Project Design, Energy Modeling and Building Efficiency Performance.

Networking – share ideas and learn from fellow members from your hometown and around the world.

ASHRAE Learning Institute – choose from two full-day professional development seminars and seven half-day short courses to stay current on new HVAC technologies.



In organization with PEO London; Young Engineers in ASHRAE 2014 John Labatt's Brewery Tour



The Young Engineers in ASHRAE (YEA) committee of the London Chapter would like to invite you to join the PEO Chapter of London and attend a technical tour of the John Labatt's Brewery. You can learn more about Labatt's products, state-of-the-art brew house and packaging processes.

At the completion of the tour, we will once again be heading over to the South Palasad Complex for food and entertainment.

Palasad offers a wide variety of activities that we can enjoy such as bowling, billiards, arcade games and even laser tag.

The Tour will start at 6:00 PM ON THURSDAY MARCH 27TH 2014. \$10 Entrance Fee at the door.

Hopefully you will be able to join us.