



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

LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon Apr 22/2013

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Topic

Building Tour Western Univ Ivey Building

Meet in lobby at 4:30pm

Parking is available outside the building
and if full use Elborn Lot

more info to be sent to people that register
<http://www.surveymonkey.com/s/9GY3JV8>

Meeting - Mon April 22/2013

4:30 - Building Tour

with dinner to follow at
Eastside Mario's
FanshawePark Road

**ADVANCED PAYMENT BEFORE MEETING
by using PAYPAL**

use chapter web site to register and pay
<http://LondonCanada.AshraeChapters.org>

\$50 Nonmembers and Guests
\$50 CASH AT DOOR (if not preregistered)
\$40 London Chapter Member or \$250.00 for meal plan
\$10 for Students

Presidents Message

I want to start off with a reminder to everyone that this month's meeting is 1week earlier on April 22 and will be a technical tour of the new Ivey Building at Western University. Following the tour we will have dinner at East Side Mario's located at 94 Fanshawe Park Rd. East, On Fanshawe Park Rd across from Masonville Mall

I would also like to thank Andrew Bonnema for taking the time to come out and speak to the Chapter last month.

Also this month on April 18, 2013 we have the ASHRAE webcast – "Assessing Building Energy Performance from Principles to Practice". This webcast will feature industry experts who will explain the importance of building energy performance and its far-reaching implications in both new and existing buildings. Viewers will also learn about the various tools and approaches that are available, as well as the many opportunities that assessing building energy performance presents. This FREE webcast program will broadcast live via the internet.

Remember to get your Golf Registrations in for the 2013 Golf tournament that will be held Monday June 3 at Fire Rock golf club. This year you can use our chapter website (<http://londoncanada.ashraechapters.org>) and register and pay for your foursome via PayPal any questions please contact Jamie Kruspel (jamie.kruspel@td.com) for more information.

One last item is that there will be no monthly meeting in May as our annual golf tournament is our last meeting of the 2012-2013 ASHRAE year.

Also just a reminder that if anyone who wishes to put their names forward for a Board of Governors chair position must do so before this month's meeting as nominations will close on April 22 at 12:00 pm . If anyone does want to help out in other capacities they can let me know at 519-451-5100 or kgilroy@ehpricesales.com.

I would like to thank everyone who came out to all the meetings this year .The group of people who are on the ASHRAE Board of Governors have been constantly trying to keep things fresh and make good changes to help benefit the chapter and its members. As always this is a chapter organization so we are always open to any suggestions that can help benefit the chapter as a whole. The BOG looks forward to the upcoming year.

Karl Gilroy
kgilroy@ehpricesales.com
 ASHRAE London Canada Chapter (116) President 2012-2013

ELECTIONS

Chapter Board of Governors and Chair positions for the 2013-2014 is open. If you can help out with chapter operations in any way please contact a current Board member.

Society - Meet the 2013 Board of Directors

The Board of Directors (BOD) for the 2013-14 Society year will be installed at the 2013 Annual Conference in Denver, June 22-26. Per ASHRAE procedure, BOD nominees will be listed on the ballot sent to members in May. To read introductory information on the BOD nominees visit:

<https://www.ashrae.org/resources--publications/periodicals/enewsletters/esociety/2013-04-10-articles/2013-bod-bios>

NOTE - be sure to vote for David Underwood, Toronto Chapter for Society Treasurer

Upcoming Meetings

June 3, 2013
 ASHRAE London Annual Golf Tournament
 FireRock G&CC

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Membership

The London chapter is pleased to welcome Paul Wilson to the London ASHRAE Chapter. Paul is currently an employee of Kenwil Services Ltd. a service HVAC company based out of Windsor.

As always, the local London chapter encourages all current members to seek out anyone who may benefit from the knowledge, experience and relationships gained from being part of ASHRAE. If there is anyone who is interested or has further questions regarding new membership please refer them to myself (mike@odellassoc.com).

We also encourage members with 12 or more years' experience to advance forward from their associate's membership to a full member status. Please contact myself if you are currently an associates member with 12 or more years' experience in the industry.

Mike Piluk
 Chapter Membership Chair 2012/2013
 ASHRE London Canada Chapter

Historical Moment - March 25, 2013

George Menzies, ASHRAE Region 2 Historian, addressed the chapter March 25. He gave some history of the engineering association called ASHRAE. The name ASHRAE is now a registered trademark and replaces the old name "American Society of Heating Refrigerating and Air Conditioning Engineers". This old name has been in use since January 29, 1959 when it was formed from the merger of two engineering societies ASHAE and ASRE. The total membership was 22,000 at the time of the merger, growing to 51,000 today. George displayed the new style chapter banner – one from his home chapter, the Hamilton Chapter. George commented that he unveiled this new banner at a chapter meeting March 19, 2013, some 41 years after he, as Hamilton Chapter President, accepted a new chapter banner that will now retired.

1972 was significant for ASHRAE Society members in the London Canada area. It was at the ASHRAE Regional Conference March 16th, in 1972 that George delivered a petition from the Hamilton Chapter for the creation of a new chapter in London Canada. After approval by the Society's Board of Directors, George noted that he was present for the new London Canada Chapter charter night May 8th, 1972. And some 41 years later, I'm back as your Regional Historian – the perfect job for someone who still enjoys participating in the many aspects of ASHRAE.

Mar Meeting Summary

Andrew Bonnema, Somers Environmental, presented information regarding appliance venting in Ontario. The different type of systems (Category I, II, III, and IV) and some venting materials were discussed.

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FREE ASHRAE WEBCAST **REGISTRATION NOW OPEN**

SAVE THE DATE - April 18, 2013 1:00 pm - 4:00 pm EDT

Assessing Building Energy Performance:
From Principles to Practice

This webcast will feature industry experts who will explain the importance of building energy performance and its far-reaching implications in both new and existing buildings. Viewers will also learn about the various tools and approaches that are available, as well as the many opportunities that assessing building energy performance presents.

This FREE webcast program will broadcast live via the internet.

Visit www.ashrae.org/ABEPwebcast for additional information about the program, sponsorships, continuing education credits, speakers, and registration.

 Arun Arora Account Executive Tel: 905-264-6372 Ext. 204 Fax: 905-264-6432 aarora@belnor.com	1 Royal Gate Boulevard, Unit J Vaughan, ON Canada L4L 8Z7 www.belnor.com
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Regarding the Survey of Commercial and Institutional Energy Use - Buildings 2009
with detailed Statistical Report - December, 2012

Just a quick note to let you know the SCIEU-Buildings Data is now LIVE on the OEE website at...
http://oee.nrcan.gc.ca/publications/statistics/scieu09/scieu_e.pdf

Grant Wilson Miles
Senior Officer
EcoEnergy Initiative, Buildings Division
Office of Energy Efficiency, Natural Resources Canada
Tel: (613) 947-0381 | Fax: (613) 947-0373
930 Carling Ave., I Observatory Cr., Building #3, Ottawa ON K1A 0E4 gmiles@nrcan.gc.ca

ASHRAE Expands Jobs Opportunity Board

ATLANTA ASHRAE members now have increased opportunities to find jobs within their chosen field under an expanded jobs board.

The expansion between ASHRAE and BirdDog, which have worked together since 2009 to provide job board support at www.ASHRAEjobs.com, will make it easier for employers to fill built environment technology positions, as well as provide ASHRAE members with increased opportunities to find jobs within their chosen fields. The expanded ASHRAEjobs site specifically allows employers, looking to hire ASHRAE members, to post their listings throughout the BirdDog family of job boards, as well as ensure all ASHRAE members have the opportunity to see the job posting.

"Our members are in high demand, and that's good news," Tim Wentz, volunteer chair of ASHRAE's Publishing and Education Council, which oversees ASHRAEjobs.com. "Unfortunately, like so many industries, companies wanting to or already employing ASHRAE members, report troubles finding the right candidate. The improved ASHRAEjobs site, along with its four years of history, gives us the foundation to expand our efforts and ensure the right talent is being matched up with right job."

"It had become evident in the past year that there was a gap between what we had in place and an increasing demand for both employers and job seekers to have a solution that was both effective and efficient," Bryan May of BirdDog said.

This announcement comes at a time where employers are reporting difficulties finding qualified candidates for open positions. ASHRAE members are the global leaders of building technology. To qualify as a full ASHRAE member, a minimum of 12 years professional experience must be shown in the industry.

The new service launched April 15, 2013. Employers who have questions about the expanded partnership should contact Bryan May at 515-473-9212.

BirdDog provides a cloud-based recruitment and applicant tracking software to small and medium sized companies across the country that simplifies the hunt for right-fit candidates.

26 Proposed Addenda to ASHRAE/IES Energy Standard Open for Public Comment

ATLANTA With the 2013 version of the ASHRAE/IES energy standard scheduled for publication later this year, many changes are being proposed to strengthen its requirements. As such, 26 proposed addenda to ANSI/ASHRAE/IES Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, are open for public comment.

"As we move toward publication of the 2013 standard, the 90.1 committee is considering many changes to reduce building energy use and cost," Steve Skalko, chair, said. "The proposed addenda reflect a variety of changes to the standard, many of which are the result of earlier public review comments. These changes contribute to our goal of making the standard 40 to 50 percent more stringent than the 2004 standard."

The energy cost goals for the 2013 standard are:

- Regulated Loads only 50 percent target includes only regulated energy end use loads as included in the Standard 90.1-2004 baseline.
- Whole building 40 percent target, which includes all energy end uses

Twenty-two proposed addenda are open for public comment from March 22-April 21, 2013. For more information, visit www.ashrae.org/publicreviews. They are:

- aa mandates direct digital control (DDC) for certain applications in both new buildings and retrofits where cost effective and defines the minimum capability of mandated DDC systems.
- bo adds requirements for use of gas condensing service water heaters in newly constructed buildings.
- bs reduces the occupancy threshold for demand controlled ventilation from greater than 40 people per 1000 square feet, with exemptions for certain occupancies, to equal to or greater than 25 people per 1000 square feet, expanding the occupancies where demand controlled ventilation is required.
- co corrects the calculation of hotel and motel type guestroom spaces based on an error in applying the room geometry of the space type, which then changes the associated whole building lighting power densities (LPDs) for hotel and motel.
- cr modifies the designation for the types of facilities eligible for the higher LPDs based on use of space for those needing additional lighting for age and other related eye issues.
- ct corrects an error for the addition of HVAC systems to heated only storage areas in Appendix G. The single zone systems would be assigned to a single thermal zone vs. being grouped with the multiple zone systems.
- cw uses the new SS-EN ISO 25745-1:2012 to add a movement energy efficiency requirement for elevators.
- cy revises the requirements for the use of exhaust air energy recovery as defined in 6.5.6.1. In 2012, addendum bt expanded down the range for the use of exhaust air energy recovery to 10 percent ventilation rates. In addition, energy recovery was removed for climate zones 3B, 3C, 4B, 4C, and 5B for >70 percent outside air. These changes were based on the latest performance and economics analysis.
- cz ensures revisions to a table and new footnotes are consistent with Section 303 of the Energy Independence and Security Act of 2007 (EISA 2007), which increased the federal minimum efficiency standards for residential-sized boilers. Section 303 increased the minimum annual fuel utilization efficiency for gas and oil-fired boilers, and established design requirements for certain types of new boilers manufactured or imported for use in the United States. All of the efficiency and design requirements took effect for equipment built on or after Sept. 1, 2012.
- da provides two compliance paths for high speed doors within the Mandatory Air Leakage requirements. It also clarifies which test glazed overhead doors are to follow.
- db addresses an error in addendum bb contained within Table 5.5-3, under the category "Floors, Steel Joist" and in the cells assigned to the "residential" occupancy.
- dc clarifies that rooms within suites should be handled individually when one becomes empty.
- dd clarifies the exception to re-roofing and roof re-covering.
- de revises the design point for waterside economizers in computer room applications.
- df replaces current minimum performance requirements for packaged Computer Room Air Conditioners shown in Table 6.8.1k with a new table based on Standard 127-2012. The standard had referenced the 2007 version of Standard 127, Method of Testing for Rating Computer and Data Processing Room Unitary Air Conditioners. AHRI and member companies have agreed to test their equipment under the new standard. The test configurations were increased and the performance values updated accordingly.
- dg changes the reference to the 2012 ANSI/CRRC Standard from the 2010 version.
- di prohibits use of fossil fuels and electricity for humidification above 30 percent RH and dehumidification to 60 percent RH, except in special circumstances. Where control is required within the 30-60 percent region, a deadband is required. Where even tighter control is mandated, the system is exempted.
- dj offers an increase in electrical/mechanical rooms in cases where the current proposed allowance of 0.42 W/sqft is not considered sufficient to provide needed vertical and horizontal illuminance given the varied configuration of electrical/mechanical rooms. The additional allowance would have to have separate control and could not be traded off to other spaces in the building.
- dk eliminates the exemption for wattage used in spaces where lighting is specifically designed for those with age related or other medical condition related eye issues where special lighting or light levels might be needed.
- dl corrects the calculation of hotel and motel type guestroom spaces based on an error in applying the room geometry of the space type and combines them into a single value since the calculated value are determined to be the same for code purposes.
- dn revises the requirements for the use of hot gas bypass as defined in section 6.5.9 and table 6.5.9.
- do is updating referenced standards in various provisions covering mechanical systems in 90.1-2010.

In addition, three addenda under review that received public comments in earlier reviews have been revised and are open for public comment from March 22-May 6, 2013. They are:

- ac provides for two compliance paths with regard to utilizing air spaces in conjunction with reflective surfaces.
- bm makes the baseline building in Appendix G equivalent to 90.1-2004 for interior lighting design.
- cl modifies IEER requirements for the air cooled air conditioners ̥65,000 Btu/hr and < 135,000 Bu/hr to increase the IEER from 12.8 to 12.9 for electric resistance heating units and 12.6 to 12.7 for gas fired units. It also revises air cooled heat pumps ̥65,000 Btu/hr and < 135,000 Bu/hr for electric resistance heating units from 12.0 to 12.2 and from 11.8 to 12.0 for gas fired units.

In addition, one addendum opens for public review on March 29, closing April 28.

- Addendum cv develops baseline energy use guidance for public assembly spaces toward assessing energy performance achievement of a proposed building. Public assembly spaces are typically designed and operated differently than surrounding spaces.

ASHRAE Publishes Second Edition of Hospital Design Manual

ATLANTA Health care HVAC systems serve facilities in which the population is uniquely vulnerable and exposed to elevated risks of health, fire and safety hazard. These heavily regulated, high-stakes facilities undergo continuous maintenance, verification, inspection and recertification, typically operate 24/7 and are owner occupied for long life.

A newly published manual from ASHRAE provides guidance on addressing these issues for mechanical and consulting engineers, designers, architects, facility managers, infection control personal, maintenance staff, contractors, developers and code accreditation and licensure officials.

"HVAC Design Manual for Hospitals and Clinics, Second Edition," provides in-depth design recommendations based on best practices, and presents proven, cost effective and reliable solutions that result in low maintenance cost and high reliability with systems providing desired performance and efficiency. The book, a complete rewrite of the first edition, focuses specifically on HVAC system design for health care facilities, omitting general system descriptions that are readily available in other ASHRAE publications.

"The manual presents a unified and comprehensive summary of engineering background on the standard, how to meet it and alternatives for best engineering practices beyond the minimum requirements," Daniel Koenigshofer, P.E., editor of the manual, said. "A principle objective of the manual is to present what is different about designing HVAC systems for hospitals and healthcare facilities."

Chapter Two describes how the principles of infection control have influenced the regulations which in turn are the bases for the unique design principles needed for hospitals.

ASHRAE's first "HVAC Design Manual for Hospitals and Clinics," which serves as a comprehensive source for the design, installation and commissioning of HVAC systems for hospitals and clinics, was published in 2003.

Koenigshofer, of Dewberry, noted the writing of this manual was a highly collaborative effort by 20 of the top consulting and hospital engineers in the country. These contributors include:

- John Murphy, Trane Co.
- Walter Grondzik, P.E.
- Reg Brown, P.E., Price Industries
- Donald Burroughs, P.E., Dewberry
- Jill Connell, P.E., CDi Engineers
- Hal Corin, Dewberry
- Jeff Crozier, P.E., Precis Engineering Inc.
- Jeremy Fauber, P.E., Heapy Engineering
- Traci Hanegan, P.E., Coffman Engineers, Inc.
- Jeff Hardin, P.E., U.S. Army Corps of Engineers
- John M. Kramer, P.E., Duke University Medical Center
- Nicolas Lemire, P.Eng., Pageau Morel
- Michael Meteyer, P.E., Erdman
- Frank Mills, C.Eng., Sinclair Knight Merz
- Heather Platt, P.E., Seneca Construction Management Corp.
- Layle Thomas, Dewberry
- Jerry Thompson, P.E., Duke University Medical Center
- Ron Westbrook, P.E., State University of New York

The cost of "HVAC Design Manual for Hospitals and Clinics, Second Edition" is \$115 (\$99 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.

Registration for Annual Free ASHRAE Webcast Now Open

www.ashrae.org/abepwebcast

ATLANTA—Registration is now open for the 2013 free ASHRAE Webcast, “Assessing Building Energy Performance—From Principles to Practice.” Register at www.ashrae.org/ABEPwebcast to benefit from this free webcast.

The webcast will address the importance of building energy performance and its far-reaching implications in both new and existing buildings, as well as the opportunities that assessing building energy performance presents.

The Webcast presenters are:

- Thomas Watson, P.E., Fellow Life Member, ASHRAE president, chief engineer, Daikin McQuay, Staunton, Va.
- Drury Crawley, Ph.D., P.E., Fellow ASHRAE, ASHRAE-Certified Building Energy Modeling Professional, director of building performance, Bentley Systems, Washington, D.C.
- Jim Kelsey, ASHRAE-Certified Building Energy Assessment Professional, principal, kW Engineering, Oakland, Calif.
- Christopher Mathis, president, MC Squared, Asheville, N.C.

The webcast program has been approved for three Learning Units (LUs) by the American Institute of Architects (AIA), as well as three Continuing Education (CE) Hours by the Green Building Certification Institute.

The live program will be archived online until May 3, 2013, for viewers who are unable to participate on April 18. Registration is required to view the archived program.

DVDs of the webcast program are currently available for pre-order at the ASHRAE Bookstore. For more information, call 678-539-1200 or email ashrae-webcast@ashrae.org.

2013 Annual Conference **June 22-26, 2013** **Denver, Colorado**

Join ASHRAE in sharing lofty ideas and high-level concepts on what's new in the building industry in Denver, Colo., at the 2013 Annual Conference. ASHRAE helps you rise above it all and advance your career with its outstanding technical program, learning courses, technical tours and chances to network and socialize. Earn PDHs or an ASHRAE certification, while hearing the latest updates from the Society and other leaders in the industry. ASHRAE in the Mile-High City will elevate you to heights.

[see ASHRAE.ORG -> CONFERENCES](http://www.ashrae.org)





ASHRAE LONDON GOLF TOURNAMENT

Registration for the 2013 ASHRAE London Chapter Golf Tournament is now open

The tournament will be held at Firerock Golf Club Monday June 3, 2013. The facility will be open at 10:00am for practice and preparation and participants will have access to the club's locker rooms.

Lunch will start at 11:00am on the patio with Tee-off at 12:00pm.
Dinner will be held after the round, likely around 6:00pm.

To register please send an email to Jamie.kruspel@td.com with your groups details.
Foursomes will be \$700.
Registration includes lunch, dinner and a golf gift for each participant.

If you are interested in returning as or becoming a sponsor please contact Jamie Kruspel

Please consider returning as or becoming a sponsor:

- * Hole Sponsor \$200 - Your firm's name will be displayed on a sign at your hole's tee blocks.
- * Activity Sponsor \$100 plus two prizes (men's and women's) to be awarded. Your firm's name will be displayed on a sign at your hole's tee blocks and provided with the award (Proceeds support the ASHRAE London Chapter and ASHRAE Research)

The London Chapter is hosting the Region II CRC in 2014!

If you have any questions, please do not hesitate to contact me

Enjoy the day

Fore!
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