



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

LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon Mar 25/2013

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kgilroy@ehpricesales.com

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jfreeman@ehpricesales.com

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Tom Pollard  
ph: 519-685-2570  
tpollard@execulink.com

#### YEA

Jeff Watson  
ph: 519-679-8660  
jeff.watson@chorley.com

## Topic

**Regulatory, Design, and Installation Considerations for  
Gas Appliance Venting in the Ontario Market**

## Speaker

**Andrew Bonnema  
Somers Environmental Products**

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**Meeting - Mon Mar 25/2013**

**BEST WESTERN LAMPLIGHTER INN**

591 Wellington Rd, London

5:30pm Social      6:00pm-Dinner

7:00pm to 8:00pm - Program

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 would like to start off by thanking everyone who came out to last month's meeting for their support. I also want to thank Tim McGinn for taking the time to not only speak to our chapter but also do a lecture at Western University for the students it was very much appreciated and both lectures were well attended.

This month we have Andrew Bonnema of Somers Environmental speaking on "Commercial and Industrial Gas Venting Systems in Ontario" and will be held at the Best Western Lamp Lighter Inn.

As the warmer weather moves in you are noticing that winter is nearing its end, well this is also true for our ASHRAE 2012-2013 year. As the 2012-2013 comes closer to the end it's that time of year again to put forth nominations for the Board of Governors for the chapter, so if any London chapter members would like to put forth their name for a position please let me know at 519-451-5100 or by email – [kgilroy@ehpricesales.com](mailto:kgilroy@ehpricesales.com). I will also make an announcement at this month's chapter meeting, opening the nominations.

On April 18, 2013 there is an 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. Watch our local ASHARE London website (<http://londoncanada.ashraechapters.org>) for more information about the program, speakers, and registration.

Again I look forward to seeing everyone on March 25th at the Best Western Lamp Lighter and if you know someone who would be interested in attending this talk please ask them to come out to help support the local chapter.

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

## Upcoming Meetings

April 18, 2013 1:00 - 4:00pm  
 Webcast: Assessing Building Energy Performance: From Principles to Practice

April 22, 2013  
 Technical Tour – New Ivey Building, UWO

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

## REGION 2 NEWS

I'm happy to announce that Nathan Cook of the Windsor Chapter has been accepted into the Region II Leadership program for the 2012-2013 year.

Nathan will have the chance to attend either a YEA Leadership Weekend or Society Conference. The costs associated with attending the event will be covered by ASHRAE Region II.

Congratulations Nathan, we hope to hear how the event went at the CRC this Summer!

Aaron Smith, P.Eng  
 Region II YEA Coordinator

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[www.systemair.net](http://www.systemair.net)

Speaker Bio's

**Andrew Bonnema**

Somers Environmental Products, Inc

Andrew began his career in product and manufacturing engineering at KWH Pipe and REHAU (global suppliers of polymer pipe) and made the transition to HVAC applications engineering by developing a cross-linked polyethylene (PEX) pipe ground loop heat exchanger for geothermal systems. Since then Andrew has acted in HVAC application-engineering roles training and educating clients as well as troubleshooting, designing and installing numerous geothermal and hydronic heating systems.

Aside from geothermal and hydronic systems, Andrew specializes in the application and installation of gas appliance venting systems. His previous applications engineering experience as well as his experience sitting on numerous code committees (ASTM, CSA and IGSHPA) ensures that he will not only provide a carefully-designed system, but it also ensures that he can help his clients navigate through any code issues that invariably arise in many venting systems.

Andrew earned a BSc and MET from Lakehead University and an MBA from McMaster University.

Andrew currently holds a sales/applications engineering position at Somers Environmental Products and can be reached at [andrew@somersep.com](mailto:andrew@somersep.com).

Topic

Title: Regulatory, Design, and Installation Considerations for Gas Appliance Venting in the Ontario Market

Synopsis: This seminar provides an overview of design and installation considerations for commercial and industrial gas appliance venting in the Ontario market. Topics covered include: the regulatory landscape (TSSA, CSA149, etc.), venting systems defined (Category I, II, III, and IV), Venting Materials (PVC, CPVC, Polypropylene, Stainless Steel), and System Design (layout and sizing).

**Feb Meeting Summary**

Tim McGinn, P.Eng, Partner, DIALOG, Calgary, AB, ASHRAE Distinguished Lecturer, Participant of 2012 Webcast presented Low Impact Mechanical Systems. Tim had samples of some projects in Europe that used motorized solar shading and windows to reduce heating and cooling loads while ensuring proper ventilation is maintained. Tim also had some LEED projects samples from North America.

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BACnet





## **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](http://www.ashrae.org/ABEPwebcast) for additional information about the program, sponsorships, continuing education credits, speakers, and registration.

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## **London ASHRAE Membership**

The London chapter is pleased to welcome two new members for the calendar year thus far. Both Richard Lee and Stephen McDermid have joined the London Chapter and we look forward to meeting them at future ASHRAE events.

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](mailto: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

## **NEW PAYMENT OPTION**

The chapter is trying out using PAYPAL for meeting payments. This will allow you to use a credit card to pay before the meeting and will assist in getting a count for room set. Please use the system to register and pay before the meetings.



## **Lighting Efficiency Improvements Proposed for Standard 90.1**

ATLANTA Proposed changes to the ASHRAE/IES energy standard will require automatic lighting controls in more space types and shorten the times before lighting is automatically reduced or shut off.

Addendum by to ANSI/ASHRAE/IES Standard 90.1-2010, Energy Standard for Buildings Except Low-Rise Residential Buildings, was developed in response to requests from the design community, which asked for a tabular structure for specifying the controls requirements. By putting these requirements into an easier-to-use tabular format, the provisions will be clearer, more likely to be complied with and easier to enforce, according to Eric Richman, chair of the standard's lighting subcommittee.

The addendum is open for public review from Feb. 15-April 1, 2013. For more information, visit [www.ashrae.org/publicreviews](http://www.ashrae.org/publicreviews).

"The proposed addendum is the product of both the interest in increasing lighting controls use where practical and simplifying the standard," Richman said.

The 2010 version of the standard includes basic shutoff and occupancy sensor type controls in selected spaces. The addendum will increase the use of occupancy based control to all spaces in a building where practical. At the same time, additional partial on and partial off controls are added to further reduce full on lighting when spaces are typically unoccupied. For example, many spaces that are not always practical applications for full automatic off (such as corridors) would require at least partial automatic off when the space is unoccupied.

The new tabular format allows users to see all requirements for most interior space types and categories in one simple look-up table.

"This new representation and update of control requirements will reduce the time that lighting is on at full levels in many spaces and make the requirements easier to understand and therefore comply with and inspect to," he said. "Both of these conditions will improve energy efficiency of the building."

Also open for public review is addendum ay from Feb. 15-March 17, 2013. The proposed addendum corrects a couple of small editorial issues and raises the threshold for when daylight responsive controls are required so that they are cost effective in all climate zones.

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## **Papers Sought for First International Conference on Energy, Indoor Environment in Hot Climates**

ATLANTA Papers are being sought for a conference focused on energy and indoor air quality in hot and humid climates.

Organized by ASHRAE, the Qatar Oryx Chapter and the Qatar Environment and Energy Research Institute, the First International Conference on Energy and Indoor Environment for Hot Climates takes place Feb. 24-26, 2014, in Doha, Qatar. It is endorsed by the United Nations Environmental Programme (UNEP) and the Chartered Institution of Building Services Engineers (CIBSE).

Abstracts (400 words in length) are due April 30, 2013. If accepted, papers are due May 15, 2013. Authors of accepted papers are responsible for travel and registration. Hotel accommodations are free for authors presenting papers. Submittal information can be found at [www.ashrae.org/HotClimates](http://www.ashrae.org/HotClimates).

The Conference provides a forum for discussion of the latest research and development in the field of indoor environmental quality in high ambient temperature climates.

Rising energy demand, costs and the associated environmental problems are causing increased emphasis on the design of energy efficient HVAC&R systems, according to Walid Chakroun, conference chair.

"This Conference sets the path for better understanding the integration of energy efficiency and indoor air quality in high ambient temperature regions," he said. "The impact of low-energy design on occupant health in different building sectors, for both developed and developing economies, is the focus."

Topics include but are not limited to: Indoor Air Quality Systems; Lessons Learned from IAQ Systems in Developing Countries; Air-Conditioning and Refrigerating Systems; Sustainability in Buildings; Energy and Sustainable Development; Healthy Indoor Environment Protocols; Renewable Energy Technologies; Indoor Environmental Pollution Sources; Air Cleaner Performance; Advances in Filter Materials; Low Emitting Materials for Better IAQ; Standards, Codes and Regulations

In addition, panel discussions are included with experts and decision makers where recommendations and ideas for research can be generated for better design and preserving healthy environments. Also, several keynote speeches will focus on different aspects of indoor environmental quality and energy efficiency.

## **New BACnet Standard Published with Significant Improvements to Alarm Handling**

ATLANTA Changes to the newly published BACnet standard from ASHRAE will encourage smart lighting controls and other building automation controls systems.

ANSI/ASHRAE Standard 135-2012, BACnet A Data Communication Protocol for Building Automation and Control Networks, allows building equipment and systems manufactured by different companies to work together. It is the only open, consensus-developed standard in the building controls industry.

The new standard is being published ahead of schedule due to the wide-reaching changes in alarming functionality made by addendum af to Standard 135-2010. This edition of the standard also includes recently adopted changes for the lighting industry.

Addendum af provides significant improvements to the alarm handling in BACnet including: improved fault handling, temporary alarm recipient subscriptions, improvements in scalability of alarm distribution and simplifications in alarm distribution to support less complex products, according to Carl Neilson, chair of the Standard 135 committee.

"For building owners/integrators these changes allow improvements in interoperability between lighting control products and other building automation systems," he said. "Hopefully, this facilitates more deployment and integration of smart lighting controls, such as lights that turn on/off when occupants enter/leave rooms; lights that come on based on the same schedules as climate control; and opportunities to reduce lighting based on energy usage during demand/response events. With the changes in alarming, we also hope to see alarming support in 'smaller' devices, which should provide more alarm and fault detection with a lower engineering cost."

Addendum af contains 32 parts. Changes include:

- Removal of Annex C and Annex D
- Clarification of optionality of properties related to intrinsic event reporting; optionality of properties related to change of value reporting; priority\_array and relinquish\_default; segmentation related properties; virtual terminal related properties; time synchronization interval properties, backup and restore properties; active\_COV\_subscriptions property; slave proxy properties; restart related properties; log\_deviceobjectproperty; clock aligning properties; and occupancy counting properties are allowed to be present
- Ensures that pulse\_rate and limit\_monitoring\_interval are always together and that that event notifications are not ignored due to character set issues
- Adds the ability to configure event message text; event detection enable/disable property; dynamically suppress event detection; specify a different time delay for to-normal transitions; inhibit the evaluation of fault conditions; for some objects types to send only fault notifications; a notification forwarder object type; an alert enrollment object type
- Separates the detection of fault conditions from intrinsic reporting
- Makes the event reporting property descriptions consistent
- Identifies the property in each object that is monitored by intrinsic reporting
- Changes the description of the reliability property
- Improves fault detection in event enrollment objects and the specification of event reporting
- Reduces the requirements on notification-servers

This version of the standard also includes the addition of support for lighting control through the new lighting output object, the channel object and the WriteGroup service.

The cost of ANSI/ASHRAE Standard 135-2012, BACnet—A Data Communication Protocol for Building Automation and Control Networks, is \$170 (\$140, 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](http://www.ashrae.org/bookstore).

## **Registration for Annual Free ASHRAE Webcast Now Open**

### **[www.ashrae.org/abepwebcast](http://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](http://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](mailto:ashrae-webcast@ashrae.org).

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## **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](mailto: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!  
Jamie Kruspel, P.Eng.  
London Canada Chapter - Vic President  
T: 519 667 3445 | C: 519 200 2197  
E: [jamie.kruspel@td.com](mailto:jamie.kruspel@td.com)