



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

LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon Jan 21/2013

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Topic

LEED: An update on the process, keys to success, and best practices for New Construction and Existing Buildings, Operations & Maintenance

Speaker

MICHAEL WYMANT
Director of Sustainability
Brookfield Lepage Johnson Controls

Meeting - Wed Jan 21/2012

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

Happy New Year to all, I hope everyone had a great Holiday and got lots of rest and relaxation to begin a new year.

I would like to thank all the chapter members for your support for the first half of the ASHRAE year, we were able to get a lot of students out and we have had some good speakers and our second half looks to be even better.

We will start off our second half, on January 21st with our meeting at the Lamplighter Inn, I encourage all members to bring someone out with them who either has never been to an ASHRAE meeting or someone you think will benefit from the meeting.

The speaker this month will be **Michael Wymant** with BLJC and will be speaking on **"LEED: An update on the process, keys to success, and best practices for New Construction and Existing Buildings, Operations & Maintenance"**

Don't forget about the AHR Expo in Dallas which will run from January 28 to 30. You can get all the details on the show at www.ahrexpo.com. For those who are attending the show there is also a very nice app for your phone or tablet and this can be downloaded at <http://showcase2.eventgenie.com/ahrexpo/>

The ASHRAE Learning Institute will offer 20 seminars and courses during ASHRAE's 2013 Winter Conference in Dallas, TX (Jan 26-30) in conjunction with the AHR Expo. All seminars and courses are approved for continuing education credits toward maintaining P.E. licensure. Please bring to the course all identification numbers (AIA, NY, FL, NC) to ensure you receive proper credit (PDHs, LUs or CEUs). For more information on ASHRAE 2013 Winter Conference, please visit, www.ashrae.org/dallas. Registration for seminars and courses will be available on-site.

I also want to mention that next month's meeting on Feb 25th will also be at the Lamp Lighter (Chelsea Ballroom) and we will be having an **ASHRAE Distinguished Lecturer** speak. The speaker will be **Tim McGinn**, P.Eng, Partner at DIALOG in Calgary and he will be speaking on **Low Impact Mechanical Systems** so I encourage everyone to mark their calendars and bring people out for this talk as we have booked a larger room than normal as we are hoping for a great turnout.

I look forward to seeing all of you this month at the meeting and remember the meeting this month is a week early on Monday January, 21st to accommodate all those who will be attending the AHR Expo.

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

Upcoming Meetings

February 25, 2013
 Speaker: Tim McGinn, P.Eng, Partner, DIALOG, Calgary, AB
 ASHRAE Distinguished Lecturer, Participant of 2012 Webcast
 Topic: Low Impact Mechanical Systems

March 25, 2013
 Speaker: Andrew Bonnema, Somers Environmental
 Topic: Commercial and Industrial gas venting systems in ON

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

April 22, 2013
 Technical Tour – New Ivey Building



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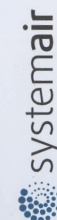
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Speaker Bio's

Michael Wymant
Director of Sustainability
Brookfield Lepage Johnson Controls

Born and raised in Toronto, Michael Wymant is the Director of Sustainability with BLJC (Brookfield Lepage Johnson Controls) – one of the largest facility management firms in Canada. Michael has also been a faculty member with the Canada Green Building Council since 2008, instructing thousands of students to become LEED AP's; he is a pragmatic advocate of LEED (Leadership in Energy and Environmental Design) approach to sustainable buildings. Michael lived in the US for a decade and assisted in the early adoption of LEED in over 10 states. He has assisted in the certification of 110 LEED projects. At BLJC, Michael launched Sustainable Line of Business with a core staff of engineers and project managers in 2009. In 2012, Michael launched BLJC's Every Drop-water reduction program reducing millions of litres of potable water across Canada. Michael is a graduate of University of Western Ontario and holds a Masters in Real Estate Law from Northwestern University. He also holds a Masters in Environment and Business with the University of Waterloo. In 2012, he hiked to the peak of Mt. Kilimanjaro with nonprofit group Watercan alongside Ben Mulrone and TVO's The Water Brothers to raise awareness about climate change and water scarcity.

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.

Feb Meeting

On February 25th, we are pleased to be hosting Tim McGinn, an ASHRAE distinguished lecturer. Please see below for his background and a summary of the topic. Tim was a participant in the panel that presented the 2011/2012 ASHRAE webcast.

Be sure to add this meeting date to your calendar

London ASHRAE Membership

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.

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

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

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FREE ASHRAE WEBCAST

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.

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ASHRAE Winter Conference - Dallas Jan 26 to 30/2013

Over 1,700 companies have reserved more than 365,000 square feet of exhibit space, making the 2013 Expo the largest HVAC&R exposition ever held in the Southwest. Last year, the AHR Expo held in Chicago set new all time attendance records. We hope to see that same enthusiasm and interest at this year's Expo. The Expo allows you to see, touch and compare the newest products representing the most innovative technology in the HVACR marketplace. In addition to exhibitors from around the world, the Show features special product sections, as well as New Product & Technology Theaters where you will find dozens of presentations on the latest products and solutions from participating exhibitors. The Expo takes place Jan. 28–30 (starting two days later than the Conference) at the Dallas Convention Center.

The ASHRAE Conference features a strong Technical Program with numerous technical tracks, some of which focus on HVAC&R systems and equipment, energy efficiency and energy modeling application, to name just a few. Nearly the entire technical program is approved for NY PDHs, AIA LUs and LEED® AP credits. To encourage attendance at the ASHRAE Conference, first-time Conference attendees receive a discounted early bird rate of \$320 for the entire Conference. Registration information can be found at www.ashrae.org/Dallas

Roll Call: ASHRAE Responds 'Present' in STEM Education Efforts

ATLANTA—The United States produces approximately 74,000 engineers a year, a number that has remained essentially flat for the past two decades. With the impending retirement of the Baby Boomer generation, an anticipated shortage of engineers will affect virtually every aspect of our environment, society and lifestyle. ASHRAE is increasing its efforts in expressing the importance of science, technology, engineering and math (STEM) education most notably, in the area of public policy.

To accomplish this, ASHRAE has joined the STEM Education Coalition. The Coalition works to inform federal, state and local policymakers on the critical role that STEM education plays in keeping the U.S. competitive in the global marketplace, as well as in guaranteeing future economic prosperity. The Coalition advocates for policies that will improve STEM education and provide greater access to STEM programs. As members of the Coalition's Leadership Council, ASHRAE will work with other member organizations to advance the Coalition's policy aims through direct advocacy and grassroots education efforts.

"I took an interest in engineering when I was very young, and my science and math classes in school only fueled that curiosity." Tom Watson, ASHRAE president, said. "Working with the STEM Education Coalition demonstrates ASHRAE's commitment to education, and we are eager to be a part of high-level discussions and collaboration to promote such important educational topics."

ASHRAE hopes to unite its grassroots efforts with other organizations of the coalition that have similar goals at the state and local level. For example, ASHRAE encourages policymakers to implement the following recommendations:

- Increase federally funded research to improve teaching and learning of STEM concepts and critical thinking skills.
- Recruit, train and retain qualified STEM teachers through the development of programs recognizing educators who excel in STEM education, and incentives that encourage the best and brightest scientists and engineers to teach.
- Foster partnerships among educational institutions, industry, and non-profit organizations and their members.
- Encourage the adoption of curriculum standards that cultivate high student performance; the development of curricula that foster creativity, experiential problem solving and critical thinking; and the development of assessments aligned with these standards and curricula.
- Create opportunities and incentives for women and minorities to pursue STEM coursework and careers.

ASHRAE also provides resources for its members to reach out to schools and students to promote STEM education. An online resource guide for kindergarten through 12th grade is available at www.ashrae.org/ashraek12. The site includes suggested classroom projects, career videos from the Society and materials for teacher use.

Dear Ontario Chapter ASHRAE Chairs:

I am writing to advise you of three new incentives that the Ontario Power Authority will be offering to eligible participants commencing shortly as part of its saveONenergy FOR BUSINESS program.

- Commissioning Agent Training Incentive (50% incentive, up to \$1600)
- Certified Energy Manager (CEM®) Training Incentive (50% incentive, up to \$1600)
- Certified Measurement and Verification Professional (CMVP®) Training Incentive (50% incentive, up to \$1000)

These incentives will likely have a positive impact on ASHRAE and its members.

The Ontario Power Authority is responsible for the coordination and development of Ontario's conservation and demand management (CDM) activities, which are delivered through local distribution companies. The Provincial Government has established a target of 6700 MW in demand reduction by 2025 — making Ontario a North American leader. These targets will be achieved saveONenergy programs, building code and standards updates, demand response, and through time-of-use rates. From 2006 to 2010, the OPA's CDM activities have saved ratepayers approximately \$3.8 billion in avoided generation costs.

While a key element of Ontario's CDM programs will be incentives for energy-efficient equipment and practices, the OPA will also provide incentives for specific types of training and certification. Other examples the these initiatives aside from those mentioned above include training and certification incentives for

- building operators,
- energy managers,
- low-rise homebuilders, and
- HVAC contractors.

To help achieve Ontario's aggressive CDM targets, the OPA believes that the development of the pool of Ontario-based accredited building commissioning agents, energy managers and evaluators will help electricity consumers in the institutional and commercial sectors readily identify those skilled professionals who can provide these services. Furthermore, the promotion of accreditation through the offer of an incentive will help to build a standard of service in the labour force.

Specifically related to the Commissioning Agent Training Incentive, OPA has determined that the certification offered by the American Society for Heating Refrigeration and Air-Conditioning Engineers (ASHRAE), the Association of Energy Engineers (AEE), and the Building Commissioners Association (BCA) all meet the OPA's objectives with respect to building commissioning certification. Qualifying professionals applying for this incentive will have a choice between these three organizations for their certification needs.

While nothing is required of ASHRAE at this time, it would be mutually beneficial for our respective organizations to cross-promote the availability of your certification designation. The OPA intends to list ASHRAE on our website in association with this initiative, and provide a link to your website to facilitate registration for the training and certification programs offered through ASHRAE. Qualifying professionals who successfully complete your certifications will be eligible to apply directly to the OPA for the incentive.

If other similar designations become available on the market, the OPA will review them for their suitability to become one of the eligible certification programs under this incentive, such that additional organizations' designations may be added over time.

I invite you to contact us to discuss how we might be able to collaborate on promoting this mutually beneficial initiative. Before you begin promotion of the incentives, it would be appreciated if we could first have a discussion. Let me know what is convenient time.

On behalf of the OPA, I would like to thank ASHRAE for its leadership in promoting a professional designation for commissioning agents without which there would be few assured standards of quality. This is an exciting time for CDM in Ontario, and indeed in North America, and we look forward to working with your organization to achieve our common objective of a highly capable workforce, skilled in the practice of energy efficiency.

Bryan Young, MA, MES
Manager, Strategy & Training | Business Development | Conservation Division
Ontario Power Authority | 120 Adelaide Street West, Suite 1600, Toronto, Ontario M5H 1T1
Tel: 416 969 6372 Bryan.Young@powerauthority.on.ca

**Assessing Building Energy Performance:
From Principles to Practice**

Thursday, April 18, 2013
1 p.m. – 4 p.m. EDT



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Standard for High Performance Green Health Care Facilities Open for Public Review

ATLANTA A prescription for the design, construction and operation of high performance health care facilities would be provided through a proposed standard from ASHRAE and the American Society for Healthcare Engineering (ASHE).

ASHRAE/ASHE Standard 189.3P, Standard for the Design, Construction and Operation of Sustainable High-Performance Health Care Facilities is open for public comment from Dec. 7, 2012-Jan. 21, 2013. Visit www.ashrae.org/publicreviews for more information.

"Healthcare facilities are often the largest and most energy intensive buildings in a community," Standard 189.3 committee chair Michael Sheerin said. "In today's competitive and regulated market, these facilities are challenged to provide capital for increasingly complex new buildings that meet sustainability objectives as they experience decreasing finances for life-sustaining services. In addition, health care facilities are home to services that require energy use for patient safety."

Proposed Standard 189.3 would help facilities in meeting those multiple needs by providing the procedures, methods and documentation requirements for the design, construction and operation of high performance sustainable health care buildings. It would apply to patient care areas and related support areas within health care facilities, including hospitals, nursing homes and licensed outpatient facilities.

The standard covers key topical areas of site sustainability, water use efficiency, energy efficiency, indoor environmental quality and the building's impact on the atmosphere, materials and resources. Additionally the standard has a special section to address the emissions, effluents and pollution that is commonly discharged from these facilities.

Proposed Standard 189.3 provides guidance to achieve improved energy efficiency for the selection of materials and furnishings and for utilizing green facility operating processes.

The standard builds upon the guidance for creating high performance buildings addressed in a parallel standard, ANSI/ASHRAE/USGBC/IES Standard 189.1, Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings, while accommodating the unique factors that impact health care facilities.

Specific ventilation requirements for health care facilities are addressed in ANSI/ASHRAE/ASHE Standard 170, Ventilation of Health Care Facilities.

Is Moisture an Unwanted 'Occupant' In your Building? ASHRAE Seminar Shares how to Remove It

ATLANTA No designer wants to see the unwelcome guests of mold and mildew show up in their building. Guidance on how to prevent moisture that causes their appearance is offered in several sessions at ASHRAE's 2013 Winter Conference in Dallas.

"Sooner or later, HVAC professionals throughout Texas and the Gulf Coast come up against the problem of preventing or getting rid of mold," Lew Harriman, a speaker at the Conference and author of ASHRAE's "ASHRAE Guide for Buildings in Hot and Humid Climates," said. "In June 2012, the ASHRAE Board of Directors approved a totally revised and updated Position Document on Indoor Mold and Dampness in Buildings. The Dallas Conference includes a comprehensive briefing on what ASHRAE experts have found to be the HVAC-related causes of mold in buildings, and what owners, contractors and designers can do to prevent the problem."

The 2013 Winter Conference takes place Jan. 26-30 at the Sheraton Dallas. To register and for complete Conference information, visit www.ashrae.org/dallas. The International Air-Conditioning, Heating, Refrigerating Expo, held in conjunction with the Winter Conference, will run Jan. 28-30. The Expo, www.ahrexpo.com, is held at the Dallas Convention Center.

The technical program features more than 200 sessions addressing energy conservation; facility management: operations, technology and energy improvements; large building design; standards, guidelines and codes; HVAC&R systems and equipment; HVAC&R fundamentals and applications; and refrigeration. The full Technical Program offers the opportunity to earn a year's worth of PDHs, NY PDHs, AIA LUs and LEED AP credits and runs Jan. 27-30.

A seminar, Diagnosing and Fixing Building Moisture Problems Case Histories from Hot and Humid Climates, takes place 8-9:30 .m. Sunday, Jan. 27.

Moisture and humidity problems are often a complex mixture of decisions made by different professionals at different times about HVAC systems, architecture and building operations. Untangling the causes of problems and planning solutions requires understanding of the typical interactions between the building and its HVAC systems plus an appreciation of the practical aspects of operating buildings with limited budgets.

Case histories presented in this seminar can help building owners and facility managers avoid classic moisture problems and solve them when they occur.

Speakers and presentations are:

- Diagnosing and Fixing a Major Mold Growth Problem in a Health Clinic, Lew Harriman, Mason Grant, Portsmouth, N.H.
- The Unintended Consequences of the New International Green Construction Code on HVAC and Mold Problems in Humid Climates, George Dubose, Liberty Building Forensics Group, Zellwood, Fla.
- Sources and Solutions of Classic Moisture Problems—Lessons Learned in Hot and Humid Climates, Raoul A. Webb, P.E., ENVIRON International Corp., Tampa, Fla.

A seminar, "Moisture Control in Commissioning of New and Existing Buildings," takes place 11 a.m.-12:30 p.m., Sunday, Jan. 27. Moisture control in the commissioning process is based on project requirements for moisture problem avoidance, building assessment, field testing, and building science. This seminar focuses on the interaction of building systems that affect moisture in buildings and demonstrates important lessons learned by use of case studies.

- Providing Moisture Control Solutions in Building Commissioning, Donald Snell and George Dubose, Liberty Building Forensics Group, Zellwood, Fla.
- The Art and Science of Building Enclosure Commissioning, Fiona Aldous, Wiss, Janney, Elstner Associates, Inc., Irving, Texas.

A seminar, ASHRAE Position on Limiting Indoor Mold and Dampness in Buildings, Unvented Combustion Devices and Indoor Air Quality: Review of Three Recently Published ASHRAE Position Documents, takes place from 11 a.m.-12:30 p.m., Wednesday, Jan. 30.

The seminar reviews three recently published Position Documents from ASHRAE, including "Limiting Indoor Mold and Dampness in Buildings." The paper describes 64 specific decisions that have been observed to either minimize or increase the risks associated with indoor moisture accumulation.

- The Revised ASHRAE Position Document on Limiting Indoor Mold and Dampness in Buildings, Lew Harriman, Mason Grant, Portsmouth, N.H.
- ASHRAE Position Document on Unvented Combustion Devices, Paul W. Francisco, University of Illinois, Champaign, Ill.
- ASHRAE Position Document on Indoor Air Quality, Chandra Sekhar, Singapore.

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- Providing Moisture Control Solutions in Building Commissioning, Donald Snell and George Dubose, Liberty Building Forensics Group, Zellwood, Fla.
- The Art and Science of Building Enclosure Commissioning, Fiona Aldous, Wiss, Janney, Elstner Associates, Inc., Irving, Texas.

A seminar, ASHRAE Position on Limiting Indoor Mold and Dampness in Buildings, Unvented Combustion Devices and Indoor Air Quality: Review of Three Recently Published ASHRAE Position Documents, takes place from 11 a.m.-12:30 p.m., Wednesday, Jan. 30.

The seminar reviews three recently published Position Documents from ASHRAE, including "Limiting Indoor Mold and Dampness in Buildings." The paper describes 64 specific decisions that have been observed to either minimize or increase the risks associated with indoor moisture accumulation.

- The Revised ASHRAE Position Document on Limiting Indoor Mold and Dampness in Buildings, Lew Harriman, Mason Grant, Portsmouth, N.H.
- ASHRAE Position Document on Unvented Combustion Devices, Paul W. Francisco, University of Illinois, Champaign, Ill.
- ASHRAE Position Document on Indoor Air Quality, Chandra Sekhar, Singapore.