



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

LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon Oct 29/2012

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Topic

**Chiller/Refrigerated System Analysis and the
OPA "saveONenergy"
Equipment Replacement Incentive Initiative
(ERII)**

Speaker

**Wilfred Laman
Enviro-Tech**

Meeting - Monday Oct 29/2012

WINDERMERE MANOR
200 Collip Circle, London

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

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

\$50 Nonmembers and Guests

\$40 London Chapter Member
or \$250.00 for meal plan

**\$50 CASH AT DOOR
(if not preregistered)**

\$10 for Students

Presidents Message

I hope everyone enjoyed their Thanksgiving Holiday and had great meal with family or friends or just enjoyed a day off.

I would like to thank Dan Int-Hout III from Krueger for visiting us last month and speaking on METHODS OF EFFECTIVE ROOM AIR DISTRIBUTION, they had a very good turn at last month's meeting and the topic was well received.

This month's speaker will be Wilfred Laman from Envirotech speaking about Chiller/Refrigerated System Analysis and the OPA "saveONenergy" and Equipment Replacement Incentive Initiative (ERII) Programs. This month's meeting will be held at Windermere Manor at UWO, also this month is Student Night and we are looking forward to having the students who have been attending the Student Chapter for ASHRAE at UWO come out to this month's meeting so please make them feel welcome.

We are also looking for companies interested in displaying their product in a table top during our meetings this will give you an opportunity to talk about the product you are showing to the members who come out to the meetings, if you are interested please contact myself or anyone on the board and we can make those arrangements for you.

Our November Chapter Meeting will be held at Western Fair District - Yuk Yuk's Buffet Room and will be a Research Promotion Night. We will also be visited by the Region II - DRC - Isabelle Lavoie. Please note that we had to move the meeting date to Wednesday Nov 21 so we could have Isabelle visit our chapter.

I look forward to seeing everyone at our next meeting Monday Oct 30th at the Windermere Manor.

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

Upcoming Meetings

Wed Nov 22, 2012 - Western Fair District

Speaker: Peter Horvatis, Dimax Performance

Topic: Operational Design and Effective Capital Investment through Intelligent Building Performance

January 21, 2013 (moved up from the 28th due to ASHRAE Winter Meeting)

Speaker: Frank Shadpour, P.E – SC Engineers, Inc., Distinguished Lecturer

Topic: Rule of Thumb Checks for HVAC DDC Open Systems - Practical Examples & Rule of Thumb Checks

OR

Using DDC Systems as a Tool for Commissioning Sustainable Buildings

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

Webcast: Assessing Building Energy Performance: From Principles to Practice

April 22, 2013

Technical Tour – New Ivey Building



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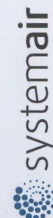
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Speaker Bio

Wilfred Laman, P.Eng.

Enviro-Tech HVAC Products and Energy Solutions,

Most recently, Wilfred was Canadian Business Development Director at Uni-Solar, a flexible, durable, lightweight, shadow tolerant Photovoltaic Solar Company. Corporate head quarters were located in Auburn Hill, Michigan with an assembly plant located in LaSalle, Ontario.

Prior to joining United Solar Ovonics, Wilfred was VP Business Development and Engineering at Glenbarra Renewable Energy Solutions, a solar integrator, and Commercial and Industrial Business Development Director at EnerWorks Inc, a solar thermal hot water company. Enviro-Tech was formed back in 1999 which represented Chicago Blower - Commercial and Industrial Fans, Quiet-Aire - Direct and Indirect Fired Air Handling Units, Dust Collection System, HVAC and Energy Efficiency related Sales and Marketing Consultation.

He is a registered Professional Engineer with extensive HVAC professional experience and a long history of leadership in the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). Wilfred served on Ashrae's Board for 3 years from 2007 thru 2009 and currently sits on the Nomination Committee and several Technical Committees. He is also the recipient of ASHRAE's Chapter Service Award, Regional Award of Merit and Distinguished Service Award.



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.

MEMBERSHIP

If your Society payment was due this past summer, be sure to get your payment to ASHRAE Society. The recent handbook was set to all paid members in Aug. If you need to check on your membership status, use the www.ashrae.org web site to login or contact me.

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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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|--|--|

OCTOBER TOPIC

Presentation will outline Chiller/Refrigerated System analysis and the OPA 'saveONenergy' and Equipment Replacement Incentive Initiative (ERII) programs.

Generally, in recommissioning the Chiller/Refrigerated System analysis is overlooked due to the complexity of the analysis.

Historical data shows that resetting system controls, optimization and correction of identified problems resulted in energy savings between 15-40% on the refrigeration systems.

Is your/your customer's building Eligible under the 'Existing Building Commissioning Program'?

The Program is available for owners and lessees of:

- Commercial Buildings, such as offices and grocery stores.
- Institutional Buildings, such as hospitals and arenas.
- Multi-Family condominiums and apartments.

Is your Chilled Water System eligible?

The Chilled Water System must meet the following criteria:

- System must be more than 3 years old,
- Cool an area greater than 50,000 ft²,
- Not be scheduled for replacement within the next 2 years and
- Not have been refurbished or retrofitted for the past 3 years.

Through discussions with a number of Local Distribution Companies (LDCs) and OPA we have confirmed that the consulting services and the analysis hardware including its installation qualify as projects costs that are eligible for rebates and incentives available through the (ERII) current being offered by OPA. This program will essentially provide up to 50% of the projects costs in the form of rebates and incentives which reduces any calculated paybacks or return on investments by 50%.

If your building(s) and/or system(s) falls into the above plan on attending to learn of a new innovative way to analyze your system.

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

What Makes an ASHRAE Leader? Leadership U!

ASHRAE returns to Dallas in January for the 2012 Winter Conference, and this time, up to four YEA members will experience the meeting in a very unique way. The Leadership U program will match YEA members with ASHRAE officers at the conference, giving these YEA members the opportunity to attend meetings, expand their knowledge and gain a new perspective unique to this experience.

This program is an ideal way to support the future leaders of your chapter, your region and Society – apply today or encourage a YEA member in your chapter to apply!

If selected to participate in Leadership U, ASHRAE covers the cost of attending the 2013 Winter Conference in Dallas including transportation, lodging and registration. In addition, those selected document their experiences and share them with the YEA Committee, their chapter and region.

Applications are now being accepted for participants who want the ultimate conference experience available through Leadership U. All applicants must be ASHRAE members and 35 years of age or younger as of December 31, 2012.

All applications must be received by Monday, October 15, 2012. Participants will be notified of their acceptance by Monday, October 29, 2012.

If you have any questions about Leadership U or the application process, please contact Rhiannon Loomis at rloomis@ashrae.org or 678-539-1178.

Visit the ASHRAE Leadership U website for more information (<http://www.ashrae.org/membership--conferences/leadership-u>)

New Scholarship Honors ASHRAE's First Female President

ATLANTA –A scholarship created in memory of Presidential Member Lynn G. Bellenger, P.E., Fellow ASHRAE, has been announced for the 2013-2014 school year.

The one-year \$ 5,000 Lynn G. Bellenger Scholarship will be awarded to a deserving female undergraduate engineering student pursuing a degree in a field related to HVAC&R.

"Lynn was a role model for us all, and her dedication to energy modeling helped to promote a more sustainable world," ASHRAE President Tom Watson said. "Through this scholarship we hope to build upon her legacy by encouraging students to pursue excellence in the field of engineering, just as she did."

More information on the scholarship and details on how to apply can be found at www.ashrae.org/scholarships.

Bellenger served as ASHRAE's president during 2010-2011 and was ASHRAE's first woman president in its 116 year history. Her presidential theme was Modeling a Sustainable World; she was a recognized expert in energy management, with a strong focus on the need for energy modeling to help create and refine more efficient buildings.

During her time as president, Bellenger promoted sustainable design, which according to her, "ignited a passion in people that is changing the world." The first ASHRAE Energy Modeling Conference was also held during her presidency.

Bellenger passed away in 2011. To honor her legacy, ASHRAE established the Lynn G. Bellenger Scholarship, which is being used to recognize women in engineering. Contributions to help fund the scholarship are being accepted at www.ashrae.org/bellenger.

ASHRAE/NIST REFRIGERANTS CONFERENCE

October 29–30, 2012 | Gaithersburg, Maryland
www.ashrae.org/refrigerants2012

New low GWP fluorochemical refrigerants and equipment applications for low GWP alternatives.



7th INTERNATIONAL COLD CLIMATE HVAC CONFERENCE

November 12–14, 2012 | Calgary, Alberta
www.ashrae.org/coldclimate

International applications and innovations in cold climate HVAC design.



New Guideline from ASHRAE Focuses on Smoke Control System Commissioning

ATLANTA ASHRAE has added to its suite of commissioning guidance to ensure buildings and systems operate as intended with a new guideline on commissioning for smoke control systems. Guideline 1.5-2012, The Commissioning Process for Smoke Control Systems, describes the technical requirements of the commissioning process described in ASHRAE's Guideline 0-2005, The Commissioning Process, to verify that the smoke control system achieves the owner's project requirements. The guideline includes annexes that are based on actual project experience and current practice and illustrate application of the commissioning process for smoke control systems and components. It builds upon the concepts of Guideline 5, Commissioning Smoke Management System, and replaces it.

"Due to the integration and interdependency of systems, a performance problem in one system can result in less than optimal performance in others," Paul Turnbull, chair of the committee that wrote the guideline, said. "Although Guideline 1.5 focuses on smoke control systems, a successful building commissioning process validates the interoperability between all building systems. When smoke control is the primary focus of the commissioning process, coordination among disciplines is essential for success."

Other commissioning guidance from ASHRAE includes Guideline 0-2005, The Commissioning Process, which contains general requirements for the commissioning process of all building systems; and Guideline 1.1-2007, HVAC&R Technical Requirements for the Commissioning Process, which contains specific requirements for commissioning HVAC&R systems in Guideline 0-2005 that are unique to HVAC&R systems. ASHRAE first began developing formal guidelines for commissioning in 1982, looking at documenting best practices to achieve facilities that perform according to an owner's needs and requirements. Its original guideline on commissioning was published in 1989. ASHRAE also is working on several other guidelines and a standard related to commissioning: Guideline 0.2P, The Commissioning Process for Existing Systems and Assemblies; Guideline 1.2P, The Commissioning Process for Existing HVAC&R Systems; Guideline 1.3P, Building Operation and Maintenance Training for the HVAC&R Commissioning Process; Guideline 1.4P, Systems Manual Preparation for the Commissioning Process; and Standard 202P, Commissioning Process for Buildings and Systems. The cost of Guideline 1.5-2012, The Commissioning Process for Smoke Control Systems, is \$54 (\$46, ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit www.ashrae.org/bookstore.

ASHRAE Releases Third Edition of Thermal Guidelines for Data Processing Environments

ATLANTA Four new data center classes that can enable fulltime economizers for a number of applications in many climates are contained in the latest edition of the principal book in the ASHRAE Datacom Series of publications. Since its first edition in 2004, ASHRAE's "Thermal Guidelines for Data Processing Environments," published by ASHRAE's Technical Committee (TC) 9.9, Mission Critical Facilities, Technology Spaces and Electronic Equipment, has become the de-facto reference material for unbiased and vendor-neutral information on the design and operational parameters for the entire datacom (data centers and telecommunications) industry. Based on the latest information from major IT equipment manufacturers, which are an integral part of the committee, it has never been easier to obtain the most meaningful data to guide data center designers and operations staff to design and run their facilities in the most energy efficient manner possible, including how to operate in a completely "chillerless" environment. Further, the guidance enables a more energy efficient operation without compromising the reliability or "mission" of the data center.

"This third edition creates more opportunities to reduce energy and water consumption but it is important to provide this information in a manner that empowers the ultimate decision makers with regards to their overall strategy and approach," Don Beaty, chair of the Publications Subcommittee of TC 9.9, said. "The idea is to provide objective data, methodology and guidance, but at the same time, respect the right of the data center designers, owners and operators to optimize the operating environment of their data center based on the criteria most important to their business needs."

Highlights in this third edition include new air and liquid equipment classes and expanded thermal envelopes for facilities that are willing to explore the tradeoffs associated with the additional energy saving of the cooling system through increased economizer usage and what that means in terms of the impact to IT equipment attributes such as reliability, internal energy, cost, performance, contamination, etc.

"The most valuable update to this edition is the inclusion of IT equipment failure rate estimates based on inlet air temperature," Beaty said. "These server failure rates are the result of the major IT original equipment manufacturers (OEM) evaluating field data, such as warranty returns, as well as component reliability data. This data will allow data center operators to weigh the potential reliability consequences of operating in various environmental conditions vs. the cost and energy consequences."

The book is part of the ASHRAE Datacom Series, developed to provide a more comprehensive treatment of datacom cooling and related subjects. Other books in the series are "Green Tips for Data Centers," "Particulate and Gaseous Contamination in Datacom Environments," "High Density Data Centers Case Studies and Best Practices," "Design Considerations for Datacom Equipment Centers," "Best Practices for Datacom Facility Energy Efficiency," "Datacom Power Trends and Cooling Applications," "Real-Time Energy Consumption Measurements in Data Centers," "Liquid Cooling Guidelines for Datacom Equipment Centers" and "Structural and Vibration Guidelines for Datacom Equipment Centers." The cost of "Thermal Guidelines for Data Processing Environments, Third Edition," is \$54 (\$46, ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit www.ashrae.org/bookstore.



ASHRAE Brings Technology, People Power in Support of Engineering for Change

ATLANTA ASHRAE has joined forces with an international engineering program to encourage its members to use their knowledge and technology to meet humanitarian challenges across the globe. ASHRAE is now a network supporter of Engineering for Change (E4C). E4C is a growing community of engineers, technology professionals, designers, scientists, non-governmental organizations (NGOs) and local community advocates who are working together to design, apply and share innovative and sustainable technical solutions to a broad range of humanitarian challenges in local communities around the world.

"By partnering with Engineering for Change, our members can contribute their knowledge and our technology to help improve the quality of life for people around the world," ASHRAE President Tom Watson said. "Our involvement allows us to match the technology to the need, to find affordable solutions that benefit communities and ourselves."

"We are delighted to welcome ASHRAE to the E4C coalition," Noha El-Ghobashy, president of Engineering for Change, said. "ASHRAE's longstanding commitment to the promotion of engineering excellence in the service of sustainability and humanity makes it a natural ally for the work of the E4C coalition. We look forward to working together with ASHRAE and its distinguished membership for years to come."

The initiative is part of Watson's presidential theme Broadening ASHRAE's Horizons, which emphasizes the role of ASHRAE members as leaders in the application of sustainable design and practices in our communities worldwide. Under E4C (www.ashrae.org/e4c), ASHRAE members can get involved with existing projects or start new ones. Watson noted that there is a wide range of projects from refrigeration to hospitals to indoor air quality to which members could contribute their technical expertise. Watson also is encouraging ASHRAE members and chapters to examine ways to get more involved in their local communities. Another effort underway is ASHRAE's Community Sustainability Project program (www.ashrae.org/community), which is designed to encourage members to volunteer with local non-profits or other associations for activities such as engineering and installation of energy efficiency measures for their facilities.

ASHRAE-Cold Climate Design Guide - volunteers needed

Just a reminder that the 7th International Cold Climate Conference early bird registration is nearing. Also that ASHRAE sponsored International Cold Climate Design Guide is being initiated in Calgary as part of the conference. Please let me know if your chapter members are interested in getting involved.

Erich Binder
Assistant Regional Chairman
ASHRAE Region XI
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Please join ASHRAE in Calgary, Alberta on November 12-14, 2012 for the 7th International Cold Climate Conference.
www.ashrae.org/ColdClimate

In conjunction with the 7th International Cold Climate Conference to be held in Calgary next Fall, REHVA and ASHRAE are looking at developing a Cold Climate Design Guide. We are looking for volunteers to help out. Region II has many dynamic and very knowledgeable members who I am sure could contribute to this guide. Please let know Erich Binder if you or one of your cohorts are interested in being a part of this great opportunity. The kick off meeting will be held in Calgary Nov 14th,