



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

LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon April 28/2014

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Topic

Building Tour

Upper Thames River Conservation Authority

**1424 Clarke Rd
London, ON N5V 5B9**

Meeting - Mon April 28/2014

Building Tour

Gathering at the front lobby ~ 5.00 PM - 5:15 PM.

Technical Tour - 5:15 PM ~ 6:15 PM

Dinner Served at 6.15 PM

ADVANCED PAYMENT BEFORE MEETING
by using PAYPAL

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

\$50 Members and Guest (prepaid)

\$10 Students (prepaid)

\$60 CASH AT DOOR

\$15 for Students

Presidents Message

It's officially cooling season! Winter made a brief reappearance, but seems to be gone for the next few months. Systems installed in the past year will be tested and opportunities will be presented for innovative strategies. I am curious on the potential for evaporative cooling applications here in our climate zone. Will any consultants try to integrate it into their designs? Are there any in our area? Perhaps this may be a future technical tour?

The technical tour for 2014 is part of next month's meeting. We will be getting an all access pass to the brand headquarter building for the Upper Thames Conservation Authority. Opened late last year, this building is London's first LEED Platinum New Construction facility. The tour will highlight its many achievements, however of note, it consumes at least 60% less energy than similar buildings. Combine that with the services the UTRCA performs, and the result is a tremendous commitment to sustainability. Join us next Monday, April 28 for the tour and our season ending dinner. Ibrahim has arranged a unique experience: a catered BBQ at the venue. The evening will be nice send-off for this year's program: an engaging tour, delicious food, and the blend of modern technology in a classic natural setting.

The ASHRAE London Golf Day is June 2, 2014. Check out the chapter webpage to register. At that event we will be swearing in the new board and getting ready to turn the page for the next chapter season. The first task of the new group is to host the Region II CRC. August 23-24, 2014 in Grand Bend will find all 9 Eastern Canadian Chapters. Check out our chapter website for details, and please consider attending for the entire program, or at least the Presidential dinner.

Have a terrific week and I look forward to seeing you at the tour April 28.

Jamie Kruspel
 Chapter President 2013/2014
 ASHRAE London Canada Chapter

Mar Meeting Summary

Stefano Ruzzon, Business Development Manager, Carel USA presented "Evaporative Cooling & Adiabatic Humidification: Applications, Benefits and Energy Savings". Stefano discussed the features and how the equipment performs for reduced power consumption

Upcoming Chapter Meetings

Monday Jun 2/2014 - Golf Tournament

Meeting Survey

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

Other Meetings

Thu April 17/2014 ASHRAE WEBCAST - Buildings in Balance: IEQ and Energy Efficiency
<https://www.ashrae.org/membership--conferences/webcasts>
 If you were not able to view the live webcast on April 17th, you can access the archived replay of the program until May 2, 2014

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

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BUILDING TOUR

The Upper Thames River Conservation Authority (UTRCA) is a body based in London, Ontario, Canada. It was created in 1947. It was responsible for the construction of the Fanshawe Dam, completed in the 1950s, to control flooding from the Thames River, which runs through London.

The UTRCA new head quarter may be the first building in London to achieve a "Platinum" rating from the well-respected LEED (Leadership in Energy and Environmental Design) certification system. Construction costs of \$9.6 million, and overall costs of \$12.3 million. Innovative aspects such as "earth tubes" — to alternatively warm the cold winter air and cool the hot summer air — a "green roof" of vegetation over a lower-level storage area, and a self-sustaining sewage treatment system certainly added to the building's ability to achieve top-level LEED labelling, but also added a considerable amount to the final price tag.

Additional Information: <http://www.southwesternontario.ca/community/utrca-celebrates-opening-of-new-headquarters/>

Research

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

Thank you for your donation

Membership

Greetings from the Membership Chair,

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

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

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

I look forward to seeing you all at the next meeting!

Best Regards,

Jeff Watson

Membership Promotion Chair 2013/2014

ASHRAE London Chapter


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Practice Exam Now Available

ASHRAE members who have expressed interest in receiving information regarding energy assessment practices. As you likely know, ASHRAE offers a Building Energy Assessment Professional (BEAP) certification. ASHRAE's certification programs are developed by industry practitioners who understand the knowledge and experience that are expected for superior building design and system operation. Being ASHRAE certified assures building owners, clients and employers that the certificant has mastered the body of knowledge associated with the respective field. An ASHRAE certification also serves as a springboard for continued professional development. ASHRAE has already certified more than 1,700 HVAC professionals.

Now, ASHRAE is pleased to announce the launch of a BEAP practice exam. The practice exam was created to assist candidates in exam preparation. For \$39, you have access to 30 questions written to the same standard as the actual BEAP certification exam. Taking the online practice exam will help you:

- * Become more familiar with computer-based testing
- * Familiarize yourself with how exam items are written
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To purchase your BEAP practice exam, please visit ashrae.org/BEAP. If you have any questions, contact us at certification@ashrae.org.

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ASHRAE Pocket Guide for Air-Conditioning, Heating, Ventilation and Refrigeration, 8th Ed.

This eighth edition, revised and expanded for 2013, includes data from the four current volumes of the ASHRAE Handbook series, including the 2013 ASHRAE Handbook—Fundamentals, and from the 2010 and 2013 editions of ASHRAE Standards 15, 34, 55, 62.1, 62.2, and 90.1. Available in I-P and SI units.

PLUS Price: \$61 ASHRAE Member (\$71 List) / 2013

Standard 15-2013 (packaged w/ Standard 34-2013) — Safety Standard for Refrigeration Systems and Designation and Classification of Refrigerants

Standard 34 describes a shorthand way of naming refrigerants and assigns safety classifications based on toxicity and flammability data, while Standard 15 establishes procedures for design, construction, installation, inspection, testing, and operation of the equipment and systems using those refrigerants.

PLUS Price: \$109 ASHRAE Member (\$129 List) / 2013

Standard 55-2013 — Thermal Environmental Conditions for Human Occupancy

Standard 55 specifies conditions for acceptable thermal environments and is intended for use in design, operation, and commissioning of buildings and other occupied spaces. Analytical calculations can be easily performed using the ASHRAE Thermal Comfort Tool software.

PLUS Price: \$117 ASHRAE Member (\$138 List) / 2013

ASHRAE Proposes to Move All Residential IAQ Requirements to Standard 62.2

ATLANTA – Dwelling units of multifamily buildings of any height would fall under ASHRAE's residential ventilation standard, 62.2, under a proposed change designed to provide consistency of ventilation requirements.

Currently, ANSI/ASHRAE Standard 62.1-2013, Ventilation for Acceptable Indoor Air Quality, has responsibility for multifamily residential buildings 4 stories or more, while ANSI/ASHRAE Standard 62.2-2013, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings, has responsibility for residential buildings 3 stories and less.

"The Standards 62.1 and 62.2 committees are proposing scope changes that would result in the dwelling units of all multifamily buildings being covered by Standard 62.2," Paul Francisco, chair of the Standard 62.2 committee, said. "Common areas would be covered by 62.1. This will provide consistency of ventilation requirements for dwelling units regardless of building height. For new construction, this will result in a change of requirements for dwelling units in 4+ story buildings. For the retrofit market, this change will result in coverage by ASHRAE ventilation standards for the first time in 4+ story buildings."

The proposed changes are being made via addendum a to Standard 62.1-2013 and addendum g to Standard 62.2-2013, which are open for public review from April 4 to May 4, 2014. For more information or to submit comments, visit www.ashrae.org/publicreviews.

The ventilation rates for dwelling units in Standard 62.1 are different from the rates in Standard 62.2, and this inconsistency has caused concern for some, according to 62.1 committee chair Roger Hedrick. Additionally, Standard 62.1 does not address modest retrofits whereas Standard 62.2 does.

"The retrofit market is a major user of ASHRAE ventilation standards," he said. "This will allow for consistency across dwelling units and also allow application of ASHRAE ventilation standards to the multifamily retrofit market."

Francisco agreed, saying, "Given the growth of the retrofit industry in multifamily dwellings it is important to ensure that these situations are covered in ASHRAE's ventilation standards."

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Managing energy efficiency is an integral part of a building's operational and financial performance. The Building Energy Quotient (bEQ) helps qualified practitioners advise owners on ways to focus resources providing the greatest return. It does this by giving practitioners methodologies to be followed and owners easily understood and applied information on their buildings.

Licensed Professional Engineers can now offer your clients the benefits of bEQ. If you have the necessary experience and knowledge, you can perform bEQ assessments on buildings within your licensed jurisdiction.

bEQ's In Operation Workbook is based on actual, metered energy data and includes an ASHRAE Level 1 Energy Assessment. With this Workbook, you can provide your clients building-specific energy savings measures and their estimated costs/payback.

bEQ's As Designed Workbook uses an energy model with standardized inputs as compared to a baseline median EUI to evaluate a building's potential energy use independent of operational and occupancy variables. With it, you can help your clients achieve their building's designed potential. You can also use it for tenants who want to compare different buildings without including effects of the current occupants.

More than just a building rating or label, bEQ is a communication tool. bEQ enables engineers to provide consulting services and facility managers to provide building owners with a variety of energy efficiency investment options, resulting in investments that are financially sound, environmentally sensitive, and socially responsible.

You can download the Workbook forms and learn more about the program at www.buildingenergyquotient.org.

You should also consider ASHRAE certification as a Building Energy Assessment Professional (BEAP) and/or Building Energy Modeling Professional (BEMP). These certifications show your clients that you have the necessary professional knowledge and experience. Plus, you can showcase yourself on the ASHRAE Certification website, use the ASHRAE Certified Provider logo, and perform bEQ in areas outside your PE jurisdiction. Get the details at www.ashrae.org/BEAP or www.ashrae.org/BEMP.



Since 1894, HVAC&R engineers have come together to make the world we live in healthier, safer and more energy efficient. Members appreciate the community, involvement, family and opportunity that ASHRAE offers.

ASHRAE members solve the HVAC&R problems of today while planning innovative solutions for the challenges of the future. Through better industry research and education, critical codes and standards, and improving how we share knowledge with each other, you are helping ASHRAE build unparalleled member benefits for you and the future of HVAC&R.

Soon you will be receiving your membership renewal package. We encourage you to continue learning and sharing ideas with your fellow colleagues around the world.

New this year, ASHRAE has added some new options for your Handbook benefits:

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Option 2: Access during membership year to ASHRAE Handbook Online and 2015 Handbook CD (CD has I-P and SI units included). There is no added cost for this option.

Option 3: 1-yr subscription to ASHRAE Handbook Online and print Handbook with CD included in I-P or SI units. The cost of this option is \$29 in addition to your current membership dues.

You can easily renew online at www.ashrae.org/renew.

The benefits and resources of ASHRAE are here for you. Should you have any questions or problems renewing, please call 1.800.527.4723 (U.S. or Canada) or 404.636.8400 (worldwide) or email membership@ashrae.org.

Remember to pay your chapter dues while renewing your Society membership. If you've recently renewed, thank you for investing in ASHRAE – and your future.



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

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

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

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

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

