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ASHRAE LONDON CANADA CHAPTER #116

TOPIC

APPLYING ASHRAE STANDARDS TO EXISTING BUILDINGS

SPEAKER

ASHRAE Distinguished Lecturer

Hoy R. Bohanon, Jr., P.E.

**President - Hoy Bohanon Engineering, PLLC
Clemmons, NC**

MONDAY OCT 28/2019

5:15PM – SOCIAL

6:15PM – DINNER

7:15PM – PRESENTATION

STUDENT NIGHT

MEETING LOCATION

PALASAD SOCIALBOWL (NORTH)

777 Adelaide St N, London

\$60 for MEMEBERS

FREE for STUDENTS (Oct is Student night)

***** PLEASE SPONSOR A STUDENT *****

Please register before **Thu Oct 24** on the web site if you will be attending.

OCT TOPIC

Applying ASHRAE Standards to Existing Buildings

Many ASHRAE Standards are design standards addressing the design of new buildings. ASHRAE has published Standard 100-2015 Energy Efficiency in Existing Buildings. Other standards such as Standard 62.1 and Standard 55 also can be applied to existing buildings and are referenced by various sustainability and energy certification programs. What parts of these standards apply to existing buildings and how can facility managers use them to improve their operations? What other ASHRAE Standards, Guidelines, and Publications are available to improve sustainability of our existing building stock?

OCT SPEAKER

ASHRAE Distinguished Lecturer

Hoy R. Bohanon, Jr., P.E.

President - Hoy Bohanon Engineering, PLLC
Clemmons, NC



Hoy Bohanon, PE, LEED AP, BEAP is principal in Hoy Bohanon Engineering, PLLC, a firm that focuses on improving the performance of existing mission critical buildings. Mr. Bohanon began his engineering career as a research and design engineer, and then gained experience as a project engineer, facilities engineer, facilities manager, indoor air quality research engineer, environmental engineer, and business owner. He has a master's degree in engineering from North Carolina State University, and a bachelor's degree in mechanical engineering from Georgia Institute of Technology.

Mr. Bohanon has written technical papers and articles on indoor air quality, operations, and maintenance and is a frequent presenter at technical society meetings. He is a recipient of the ASHRAE Distinguished Service Award and is chair of ASHRAE Standard 62.1 committee, Ventilation for Acceptable Indoor Air Quality. He also serves on the bEQ committee. He is chair of the US Technical Advisory Group panel 1 (general principles) and panel 4 (indoor air quality) for ISO TC205 Building Environment Design. He is a co-author of The Indoor Air Quality Guide: Best Practices for Design, Construction and Commissioning and Performance Metric Protocols for Commercial Buildings: Best Practices Guide. He also teaches multiple courses for the ASHRAE Learning Institute addressing ASHRAE 62.1 and IAQ. Mr. Bohanon is also a member of the Professional Engineers of North Carolina, US Green Building Council, and I2SL.

Student Sponsors

OCT is Student Night – so students can attend the meeting for FREE

WE NEED CORPORATE SPONSORS

Consider Sponsoring a Student Meal and ASHRAE registration when paying for your Oct meeting

*** just \$50 each ***

Chapter President's Message

Thank you to everybody who made it out to our September refrigeration meeting. I've since heard many compliments on Hernan's presentation, a great way to start the season!

We now look towards our student night meeting on Oct 28th. It's our pleasure to bring in Distinguished Lecturer Hoy Bohanon who will be presenting "Applying ASHRAE Standards to Existing Buildings". In the true spirit of the students the event will be held at the Palasad. I hope the students and general membership take advantage of the location to do some bowling, games or maybe take in Monday night football after the meeting. Looking forward to seeing everybody there!

James Scudamore (email: jscudamore@ztr.com) 519-452-1233 x512
ASHRAE London Canada Chapter
Chapter President 2019/2020

ASHRAE Membership

New members list for this year:

Vamsi Ram Athuluri
Ryan Wood
Zlatko Afic
Larry Ferreira

If you know a colleague that may benefit from an ASHRAE membership, please let me know.

Jeff Armstrong (email: Jeff.Armstrong@trane.com) 519-453-3010 x814
ASHRAE London Canada Chapter
Chapter Membership Promotion Chair 2019/2020

Sept Meeting Summary

Hernan Hidalgo from Danfoss Ind. Refrigeration spoke on Global Trend in Industrial Refrigeration. Mr Hidalgo spoke of what is currently used as refrigerants and some of their efficiencies including NH3 (ammonia) and CO2. A copy of the presentation can be found on the chapter web site.



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Professional Development

Need hours for your professional development requirements? Be sure to attend a chapter meeting. Professional Engineers Ontario requires members to have yearly professional development training recorded through the Practice Evaluation and Knowledge (PEAK) program. Other groups may also require continuing education.

Chapter Upcoming Meetings

Mon Nov 25/2019 – Tour

Fanshawe College – Downtown (old Kingsmill building)
School of Information Technology and
Tourism, Hospitality and Culinary Arts

Dec 2019 – Social

*** be sure to check web site for latest information ***

<http://LondonCanada.AshraeChapters.org>

Registration Now Open



2020 ASHRAE Winter Conference

Orlando, FL | February 1–5, 2020

<https://www.ashrae.org/conferences/2020-winter-conference-orlando>

AHR Expo 2020

03 Feb 2020 – 05 Feb 2020

<https://ahrexpo.com/>



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Related Articles

Writeup within: **Canadian Consulting Engineer**

ASHRAE prepares new net-zero HQ

<https://www.canadianconsultingengineer.com/buildings/ashrae-prepares-new-net-zero-hq/1003409793/>

Writeup within: **Energy Manager Canada**

Canada's Darryl K. Boyce becomes ASHRAE's new president

<https://www.energy-manager.ca/canadas-darryl-k-boyce-becomes-ashraes-new-president/>



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If any questions, please contact me

Andrew Crowley (email: acrowley@drennan.on.ca) 519-671-8454

ASHRAE London Canada Chapter

Research Promotion Chair 2019/2020



Building EQ

Be an Energy Genius 

ASHRAE's Building EQ Portal provides a quick energy analysis that benchmarks a building's energy performance. Building EQ assists in the preparation of an ASHRAE Level 1 Energy Audit to identify means to improve a building's energy performance including low-cost, no-cost energy efficiency measures and an Indoor Environmental Quality survey with recorded measurements to provide additional information to assess a building's performance.

Two different evaluations can be used independently to compare a candidate building to other similar buildings in the same climate zone or together for an assessment of a building's design potential compared to actual operation:

- **In Operation** compares actual building energy use based on metered energy information.
- **As Designed** compares potential energy use based on the building's physical characteristics and systems with standardized energy use simulation.

Learn more on how to access the portal, initiate a project, and begin a submission:

<https://www.ashrae.org/technical-resources/building-eq/building-eq-portal>



ASHRAE NEWS

ASHRAE eLearning - Web-Based | On-Demand

For a limited time, take advantage of our Fall sale! **Buy two individual courses— get one free!** The sale: from October 2nd and ends October 31st. This reduced pricing applies to both individual and corporate enrollments. Once enrolled, you have 12 months to complete your training. Enter code FALL2019 to take advantage of this offer.

Learn More!

ASHRAE eLearning is an approved Continuing Education provider for the American Institute of Architects (AIA), and a U.S. Green Building Council (USGBC) Education Partner. Continuing Education (CE) hours earned from ASHRAE eLearning may be applied toward maintenance of state-licensed professionals (architects and professional engineers) and LEED credentials.

For the complete eLearning catalog, please visit <https://elearning.ashrae.org>

Individuals can register online at <https://elearning.ashrae.org> and immediately gain access. Companies can register employees by contacting email: elearning@ashrae.org or calling 678-500-3917.

October Courses

Tuesday, October 22, 2019 – 1:00 am to 4:00 pm, EDT

Laboratory Design: The Basics and Beyond Instructor: John Varley, P.E., Member ASHRAE, HBDP, LEED® AP

The course focuses on the essential elements of the design process that are unique to laboratory HVAC systems. Topics include planning steps, determining exhaust/supply requirements, load calculation, pressure mapping, evaluating system options, layout of ducts and rooms, sizing primary air systems, designing exhaust stacks, sustainability in laboratories, and control strategies.

Thursday, October 24, 2019 – 10:00 am to 1:00 pm, EDT

Thermal Energy Storage Systems for Air Conditioning Instructor: Douglas Reindl, Ph.D., P.E., Fellow ASHRAE

This course discusses how thermal energy storage can enable greater use of renewable energy generation and how an existing or new facility could benefit from the application of a thermal energy storage system.

Tuesday, October 29, 2019 – 1:00 pm to 4:00 pm, EDT

Designing and Operating High-Performing Healthcare HVAC Systems Instructor: Daniel Koenigshofer, P.E., Member ASHRAE, HFDP

This advanced course discusses the interactions of the key elements of high performance in healthcare, infection control, comfort, reliability, safety, maintenance, energy, and sustainability. Numerous energy conservation strategies will be considered in the context of achieving all the goals of a high-performing healthcare HVAC system.

Thursday, October 31, 2019 – 1:00 pm to 4:00 pm, EDT

Latest in High-Performance Dedicated Outdoor Air Systems (DOAS) Instructor: Arthur Hallstrom, P.E., Member ASHRAE, LEED® AP

This course covers the latest in DOAS application, design, and control for building ventilation, particularly low-energy, max tech and zero energy buildings.

Online Courses Scheduled in November 2019

Design of Affordable and Efficient Ground Source Heat Pump Systems

Wed, November 6, 2019, 1:00 pm to 4:00 pm, EDT

Commissioning Process and Standard 202

Wed, November 13, 2019, 11:00 am to 2:00 pm, EDT



CONGRATULATIONS TO THE 2020 AHR EXPO INNOVATION AWARD WINNERS

<https://ahrexpo.com/awards-winners-2020/>

BUILDING AUTOMATION - Company: Delta Controls Inc.
Innovation: O3 Sensor Hub 2.0

COOLING - Company: Danfoss
Innovation: Danfoss Interlaced Micro Channel Heat Exchanger (iMCHE)

GREEN BUILDING - Company: Danfoss
Innovation: Danfoss Turbocor® TG490 Compressor

HEATING - Company: York® For Your Home
Innovation: YORK® LX Series TL9E Ultra-Low NOx Gas Furnace

IAQ - Company: Fresh-Aire UV
Innovation: Purity Low Profile LED 1” Polarized Filter / LED Disinfection System

PLUMBING - Company: LG Electronics USA, Inc.
Innovation: LG Hydro Kit

REFRIGERATION - Company: Danfoss
Innovation: Danfoss CO2 Adaptive Liquid Management Solution

SOFTWARE - Company: Interplay Learning
Innovation: SkillMill™ Skilled Trades Course Catalog

TOOLS & INSTRUMENTS - Company: Matelex
Innovation: DNI (détecteur de niveau intelligent/smart level detector)

VENTILATION - Company: Infinitum Electric
Innovation: Infinitum Electric, A Breakthrough HVAC Motor

ASHRAE Toronto & SMACNA - 5th Annual Tradeshow

November 6th, 2019 When: 4:00 PM - 6:00 PM – Tradeshow 6:00 PM - 8:00 PM - Technical Presentation*

ASHRAE Toronto Chapter and TSMCA have partnered to sponsor the Annual Joint Trade Show followed by dinner meeting.

Location:
Sheraton Parkway Toronto North
Hotel, Suites and Conference Centre
600 Highway 7 East,
Richmond Hill, ON L4B 1B2

See:
For exhibitor: <http://www.torontoashrae.com/event-3560224>
For Guest: <http://torontoashrae.com/event-3598083>