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ASHRAE LONDON CANADA CHAPTER #116

TOPIC

GLOBAL TREND IN INDUSTRIAL REFRIGERATION

SPEAKER

Hernan Hidalgo
DANFOSS IND. REFRIGERATION
Global Accounts Manager

MONDAY SEPT 30/2019

5:15PM – SOCIAL

6:15PM – DINNER

7:15PM – PRESENTATION

MEMBERSHIP NIGHT

MEETING LOCATION

DELTA HOTELS - ARMOURIES
325 Dundas St, London

\$60 for MEMEBERS

\$20 for STUDENTS

Please register before Wed Sept 25 on the web site if you will be attending.



TOPIC

Global Trend in Industrial Refrigeration

Refrigeration Systems developments
Trends in NH3 charge
Typical Industrial Refrigeration system types
Trends in Industrial Refrigeration Systems
Overview Transcritical cycle
System Performance Comparison
Systems Layout
Defrost and Efficiency
Oil return/recovery

SPEAKER

Hernan Hidalgo

Global Accounts Manager – DANFOSS IND. REFRIGERATION

Mr. Hidalgo holds a Mechanical Engineering Degree from Universidad Nacional de Colombia and a Master of Business Administration from University of Newcastle Upon Tyne, UK. His professional experience started in system design and installation of NH3 systems in 1991. During his tenure, Mr. Hidalgo has held positions as Sales Manager for industrial refrigeration in North America and Global Business Development Manager

Currently, Mr. Hidalgo serves as the Danfoss Global Accounts Manager for NH3, CO2 and low GWP solutions in Industrial Refrigeration and actively promotes the use of innovative solutions while seeking technology developments with key global partners.

ASHRAE President

Boyce Invites Members to Explore Online Operational Excellence Resources

ASHRAE President Darryl K. Boyce, P.Eng., invites members to review the **Building Operational Excellence Resource List**. It's a comprehensive list of resources available on ashrae.org to support his 2019-20 Society theme of "Building People and Performance. Achieving Operational Excellence." These resources provide a wealth of information that can help achieve building operational excellence.

Learn more at:

<https://www.ashrae.org/about/leadership/ashrae-president/building-operational-excellence-resource>

with information on Certification Education Publications Research Reports Standards

ASHRAE CERTIFICATIONS

Building Commissioning Professional (BCxP) certification
Building Energy Assessment Professional (BEAP) certification
Building Energy Modeling Professional (BEMP) certification
Certified HVAC Designer (CHD)
High-Performance Building Design (HBDP) certification
Healthcare Facility Design Professional (HFDP) certification
Operations & Performance Management Professional (OPMP) certification

Chapter President's Message

Thank you to everybody who came out to our meetings and social events in 2018/2019! It was an exciting year highlighted with a visit from society president, Mr Daryl Boyce. As we look to the 2019/2020 season I'm hoping to continue the momentum with great venues, great content, great speakers and most importantly great times visiting with fellow ASHRAE friends. We've got an enthusiastic board of governors with lots of ideas for the year, and we always have space for members wanting to join. Feel free to contact anybody from the board with your questions, feedback, or ways to get involved. Looking forward to seeing everybody from last year, and hopefully some new faces as well.

James Scudamore
ASHRAE London Canada Chapter
Chapter President 2019/2020

ASHRAE Membership

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

Jeff Armstrong
ASHRAE London Canada Chapter
Chapter Membership Promotion Chair 2019/2020

Student Sponsors

Consider Sponsoring a Student Meal - just \$50

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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 Oct 28 – Student Night

ASHRAE Distinguished Lecturer

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

President - Hoy Bohanon Engineering, PLLC
Clemmons, NC

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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Marley
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The Chill Challenge: Affordable, Off-Grid Refrigeration Competition

<https://www.ewb-usa.org/chill-challenge/>

ASHRAE and Engineers Without Borders (EWB-USA) are proud to partner for the launch of the Chill Challenge: Affordable, Off-Grid Refrigeration Competition. The objective of the challenge is to develop affordable, energy-efficient refrigerators and icemakers to off-grid communities in developing countries. EWB-USA intends to award grants of \$25,000-\$50,000 to as many as 10 teams to develop a proof of concept prototypes of off-grid refrigeration solutions. The competition is open to all interested parties and refrigeration technologies.

Members Save 20% Everyday in ASHRAE Bookstore

ASHRAE members automatically receive a 20% discount on ASHRAE's expansive catalog of standards, guidelines, seminars, textbooks, papers and design guides. Log in and the member discount is automatically applied to pricing. Shop Now: <https://www.techstreet.com/ashrae/ashraegate.html>

New ASHRAE UNEP Portal Now Free to ASHRAE Members

ASHRAE and United Nations Environment Program (UNEP) have a dedicated web portal where jointly developed resources are available. Resources—such as the Internet-delivered training courses "Refrigerant Literacy" and "Sound Management of Refrigerants" and a full semester university-level course on refrigerant technology—are available for **free to ASHRAE members** as a benefit of the ASHRAE-UNEP partnership and to enable ASHRAE members to assist in promoting the transition to lower GWP refrigerants.

Read more at:

<https://www.ashrae.org/news/hvacindustry/new-ashrae-unep-portal-now-free-to-ashrae-members>

ASHRAE UNEP Portal

<https://www.ashrae.org/professional-development/ashrae-unep-portal>

The **free web-based courses** are listed below. To obtain your access code please login to myelearning.ashrae.org using your existing ashrae.org credentials.

Refrigerants Literacy
Sound Management of Refrigerants



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ASHRAE RESEARCH

www.ashrae.org/donate

Hello ASHRAE London Members

I am Andrew Crowley and this years Research Promotion chair. Our goal for this year is \$12,600 and I look forward to exceeding this through your continued support.

To donate online please visit: <http://www.ashrae.com/donate>

This year we will be recognizing donors at most meetings by displaying individual and company donors during the social hour. The earlier in the year you donate the more visibility you will have throughout the year! Donors will also be recognized in the monthly newsletter. A RP themed meeting will take place early next year.

Honour Roll \$150-\$249

Major Donor \$250-\$2,499

ASHRAE Associate \$2,500-\$4,999

Current Donors: Norm Clarke, Tom Pollard, Alex Somers, Andrew Crowley,
Ibrahim Semhat, James Scudamore

Andrew Crowley <acrowley@drennan.on.ca>

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 Learning Institute Announces Fall Online Course Series And Four New Courses Are Available

ASHRAE Learning Institute (ALI) has opened registration for its 2019 Fall Online Instructor-led Course Series. Courses will begin September 10 and conclude on November 13, with 12 three-hour courses and new one-hour courses scheduled.

"ASHRAE Learning Institute fall online courses provide professional development through in-depth information that is timely, practical and targeted," said Darryl K. Boyce, 2019-20 ASHRAE President. "These courses provide engineers in consulting practices, facility management and other building professionals with instruction on applying ASHRAE standards and employing new technologies essential for advanced building performance."

For the first time, a one-hour course, will be offered. A Brief Look at IgCC and Standard 189.1 provides an overview of the technical content contained in the 2018 International Green Construction Code® (2018 IgCC®). The IgCC provides the minimum requirements for the siting, design, construction and plans for operations of a high-performance green building.

Additional one-hour courses will be added to the schedule throughout the series.

New courses include:

- Guideline 36: Best in Class HVAC Control Sequences, Sept. 24
- How Smart, Efficient, Sustainable Systems Lead to Improved Resilience, Oct. 2
- Laboratory Exhaust Stacks: Safe and Energy Efficient Design, Oct. 10
- A Brief Look at IgCC and Standard 189.1, Oct. 15

The remaining course offerings are as follows:

- Avoiding IAQ Problems, Sept. 10
- Combining Heat and Power: Creating Efficiency through Design & Operations, Sept. 17
- Humidity Control II: Real-World Problems and Solutions IAQ Practices, Oct. 8
- Laboratory Design: The Basics and Beyond, Oct. 22
- Thermal Energy Storage Systems for Air Conditioning, Oct. 24
- Designing and Operating High-Performing Healthcare HVAC Systems, Oct. 29
- Latest in High-Performance Dedicated Outdoor Aire Systems (DOAS), Oct. 31
- Design of Affordable and Efficient Ground Source Heat Pump Systems, Nov. 6
- Commissioning Process and Standard 202, Nov. 13

For more information and to register, please visit

<http://ashrae.org/onlinecourses>
