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# ASHRAE LONDON CANADA CHAPTER #116

**TOPIC:**

**ASHRAE's Building Energy Quotient (Building EQ)  
program**

**Presenter:**

**ASHRAE Distinguished Lecturer**

**Doug Cochrane, P. Eng.**

**ASHRAE Finance Committee**

**Building EQ**

**MONDAY SEPTEMBER 28, 2020**

**4:30 PM – Hosted virtually on ‘GoToMeeting’**

**Cost = \$30.00**

**Registration link: <https://forms.gle/qnW2Ezkt7qaF7Htf6>**

Hosted by ASHRAE London in joint online meeting with ASHRAE Windsor

## **SEPTEMBER TOPIC**

### **ASHRAE's Building Energy Quotient (Building EQ) program**

Go beyond benchmarking with ASHRAE's Building Energy Quotient! Building EQ provides in-depth energy analysis to benchmark energy performance, actionable energy efficiency measures, and information on a building's Indoor Environmental Quality. This program empowers building and campus owners on how their buildings contribute to their energy resilience and conservation plan.

## **September PRESENTER**

### **Doug Cochrane, P. Eng.**

**ASHRAE Distinguished Lecturer**

Doug is currently an independent consultant, after having spent nearly 30 years in equipment sales for Carrier – a major manufacturer of HVAC equipment.

Doug is a graduate of Ryerson University with a degree in Mechanical Engineering and is a licensed professional engineer in Ontario. He is also a LEED AP and has a certificate in sales development from Humber College. He has also completed the Carrier basic system design course and has taken advanced training in rooftops and splits, ahu's, chillers, controls, and system selling. He qualified as a train the trainer with Carrier. Doug started in inside sales and has held additional roles as software coordinator, chiller and applied systems specialist, territory manager, branch sales manager, regional commercial sales manager, and engineering sales manager.



Doug joined ASHRAE in university and has participated in chapter, region, and society activities ever since. He is a past president of the Toronto chapter, CRC chair (twice), inaugural RVC for GGAC in Region II, served on the nominating committee for 6 years, and the conferences and expositions committee for 3 years and was the technical chair for the Chicago 2015 conference. Doug is the immediate past DRC for Region II, and is a member of TC 9.1 Large Building AC, Cold Climate Design Guide TRG9, a member of the standards appeal board, and is currently the immediate past Chair of Building EQ, and ARC for Region II. He is chair of the upcoming topical conference on Industrial ventilation in Toronto in Aug 2021, and is General Chair of the Annual ASHRAE society meeting in June 2022 celebrating Toronto chapter's 100<sup>th</sup> anniversary. Doug has helped organize Canada's federal government outreach day in Ottawa since the beginning, and has been involved in the provincial day at Queens Park in Toronto from day 1. He holds the ASHRAE distinguished service award, the regional award of merit, and the chapter service award.

He also serves on part 6 HVAC of the Ontario building code as technical advisory committee chair and is part of the stakeholder group for Ontario's energy and water reporting and benchmarking. He was also part of the program advisory committee for Sheridan College.

Doug has given Building EQ presentations at many ASHRAE CRC's (Regions I,II,XI, XIV in 2019), and presented on Public speaking, running a successful meeting, and the Cold climate design guide at the Region XI CRC at sea last year. He always does a regional update on society meetings to keep everyone in the region informed, and also recognizing regional member achievements and awards. He gave a 2.5 hr presentation at the Buildings show in Toronto in Dec 2019 on an update of ASHRAE standards for higher building performance, and energy efficiency. He was a reviewer of the latest ASHRAE 3<sup>rd</sup> edition of Air Conditioning System Design Manual, and has also reviewed ASHRAE handbook chapters relative to TC 9.1.

He is married to Cathy and they have one son Sean. An avid sports fan, Doug is a diehard Toronto Maple Leafs hockey supporter, and hopes to see them win another Stanley cup during his lifetime.



## Chapter President's Message

To ASHRAE London Chapter Members

I am Andrew Crowley, your ASHRAE London Chapter President for 2020/2021. I am an industrial refrigeration engineer, Engineering Manager for Drennan Refrigeration Inc. in London ON.

It has been an interesting year for all of us, challenging for most, and I hope this email finds you and your family in good health and spirits.

As you are aware, our usual way of conducting ASHRAE business is different this year, and I want to update everyone on some important changes:

- Chapter meetings, until at least January but more than likely all year, will take place virtually on Go to Meeting.
- Most meetings will begin at 4:30pm. The first hour will be ASHRAE business and technical presentation. The second hour will be Q & A and a "virtual" social.
- London and Windsor Chapters will alternate hosting meetings, combining members from both chapters. There are currently 8 meeting dates scheduled
- There will be a one-time fee of \$30 to attend any or all the virtual meetings this year. Any proceeds raised from this will be donated to Research Promotion and other charity. A sign up form will be sent out shortly.
- We will be taking advantage of the virtual year and booking many DL speakers!

If you have any questions in the meantime please reach out to the BOG. You can also contact me directly at

**Andrew Crowley**  
Drennan Refrigeration Inc.  
[acrowley@drennan.on.ca](mailto:acrowley@drennan.on.ca)

We are looking forward to a successful year!  
From your ASHRAE London Chapter BOG

## A Word About Meeting Costs...

As there are no chapter meals that help contribute to the chapter operation and offset some meeting expenses, the chapter still needs some funds due to ongoing expenses such as bank charges, ASHRAE Region 2 dues on behalf of chapter members, and to contribute to ASHRAE Research. The low-cost fee of \$30 will help the ASHRAE London Chapter and board members continue to provide services to the chapter members.

If there are any comments/concerns please reach out to any of the board members, we are happy to receive all feedback.



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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

### Monday September 28 – Chapter Meeting

- Distinguished Lecturer – Doug Cochrane – Building EQ

### Tuesday October 20 – Chapter Meeting

- Distinguished Lecturer – Jim Newman – Trade Press on HVAC and COVID-19

### November 30 – Chapter Meeting

- Speaker and topic TBD

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

<http://LondonCanada.AshraeChapters.org>

## ASHRAE LONDON CANADA

### Board of Governors

The chapter is excited to announce the new elect Board members to the positions of Chapter President, Vice-President, Secretary, and Treasurer as well as all the committee chair positions for 2020-2021.

The Chapter always welcomes new members who would like to get involved and assist the chapter in any way you are able. If this is of interest please forward your name to any one of the board of governors.

## ASHRAE 2021 Winter Conference

As of right now, the AHR Expo and ASHRAE Winter Conference is still scheduled for the original dates of January 23-27 2021 in Chicago. The society is closely monitoring the potential impact of COVID-19 on tis event, with the safety and welfare of the ASHRAE community as the highest priority.

Society has been presented with the possibility of delaying the 2021 Expo from January 23-27 to March 15-17 2021. No decisions have been made but the idea is that an additional seven weeks may make a difference in the society ability to conduct the exposition as safely as possible. A survey has been sent out to the exhibitors for their feedback on the potential shifting date. Stay tuned for more!



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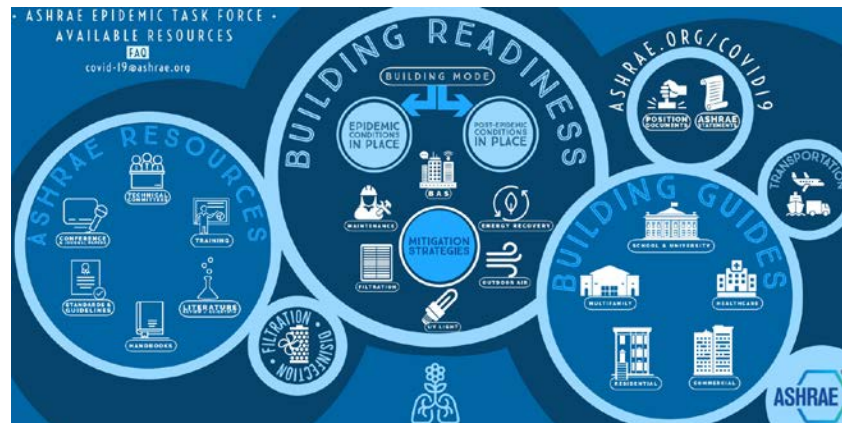
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## **ASHRAE Coronavirus (COVID-19) Response and Resources**

ASHRAE has developed a resource hub of documents that have been reviewed by the Society's Environmental Health Position Committee. These include but are not limited to: Building guides (healthcare, schools, residential, commercial), filtration/disinfection, transportation, and other misc. resources. They can be accessed by following the link:

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



## **ASHRAE Toronto Hydronics Workshop**

ASHRAE Toronto is hosting an education workshop about Hydronics 101 that London members are welcome to attend if it is of interest to them. Cost: \$5 for Participating Region 2 Chapters Members (\$10 for non-members)

Date: Monday - September 21, 2020 – Online webinar – Start time 5:00 pm

Please reach out to Jeff Armstrong if you are interested for the registration link – you will be provided a special access code once Toronto verifies membership and payment.

### **Event Summary:**

Interested in learning about hydronics in HVAC systems and buildings? Join us for an introductory lecture on the basics of hydronics. The goal of the workshop is to equip participants with fundamental knowledge about the topic that enable them to have full understanding of various hydronics applications, especially in HVAC systems and buildings.

### **Speaker:**

Brendan McDermott, BASc.  
ASHRAE Toronto Chapter President  
CEO, DMA Heating and Cooling Systems Inc.

Brendan has a Bachelor's degree in Mechanical Engineering from the University of Toronto. Since entering the HVAC industry, he has 10 years of experience designing and selling hydronic systems in the North American Market. He is the CEO of DMA Heating and Cooling Systems, a specialty hydronics distribution firm that he founded in 2016 to address the need for low carbon, low energy building solutions. He is also the President of ASHRAE Toronto Chapter and has been active in the Chapter for 9 years. Additionally with ASHRAE Society, Brendan is a member of Technical Committee 6.5 Radiant Heating and Cooling, as well as TC 9.08 Large Building Air Conditioning Applications.





## **ASHRAE RESEARCH**

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If any questions, please contact:

**Kathleen Mayberry**

**519-641-3040 x202**

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**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>