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# ASHRAE LONDON CANADA CHAPTER #116

**TOPIC:**

**Building Automation and Decarbonization**

**Presenter:**

**Abhishek Kurana, P.Eng**  
CEO, Voyager Buildings  
Distinguished Lecturer – ASHRAE

**Monday September 30<sup>th</sup>, 2024**

5:00pm to 6:00pm = Social; 6:00pm to 7:00pm = Dinner; 7:00pm = Presentation

**Anderson Craft Ales**  
**1030 Elias St, London**

**Registration Link**

**<https://forms.gle/WsxaRqAvupUKD1k1A>**

**\$90 – Members | \$30 - Students**

e-Transfer to [ashraelondon@gmail.com](mailto:ashraelondon@gmail.com) preferred



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## **September Topic**

### **Building Automation and Decarbonization**

This presentation will provide an overview of Building Automation System (BAS) fundamentals followed by a deep dive into Air Handling Unit (AHU) control loops. From there we will explore control strategies that can reduce operational costs and carbon emissions. We will also discuss how to analyze system data to find potential issues and cover what Environmental, Social, and Governance (ESG) means and how the BAS can help with environmental parts of ESG.

## **September Presenter**

### **Abhishek Khurana, P.Eng**

CEO, Voyager Buildings

Distinguished Lecturer - ASHRAE

Regional Vice Chair – Programs/CTTC, ASHRAE

Presidential Member – ASHRAE Toronto

#### **Abhishek Khurana:**

Abhishek Khurana is a successful business owner based in Toronto, Canada. Having grown up in both India and Canada, Abhi's ability to understand and appreciate multiple perspectives has enabled him to communicate effectively with people from diverse backgrounds and find innovative solutions to complex challenges.



Abhi is a distinguished lecturer and expert in the field of HVAC automation. He holds a degree in Mechatronics Engineering and Control Systems from McMaster University. His leadership in the industry is evidenced by his active involvement in ASHRAE, where he has held numerous positions including Toronto Chapter President. He currently serves as the Regional Vice Chair for the Chapter Technology Transfer Committee (CTTC). He is also involved with Technical Committee 1.4 – Control Theory and Application.

Abhi began his career as an Account Executive for Trane Technologies, where he honed his skills in presenting and designing HVAC control solutions. He then founded Voyager Buildings, a firm that provides turnkey Building Automation and Artificial Intelligence solutions – from design and installation to programming, commissioning, and training. Abhi's expertise and innovative approach to HVAC control systems has led to him delivering numerous presentations to Engineers, Contractors, Manufacturers, ASHRAE Chapters and Student Branches. Abhi's formal training in improv and stand-up comedy has also proven instrumental in delivering engaging and impactful presentations. His natural flair for public speaking and storytelling has helped him connect with audiences, making his presentations not only informative but also entertaining. He has been actively engaged in presenting to government officials, advocating for sustainable solutions, and raising awareness about the environmental impact of current practices in the HVACR industry in Canada.

Overall, Abhi's unique blend of expertise, passion, and experience make him a highly respected and sought-after industry leader, innovator, and speaker.



## 2024-2025 Chapter President's Message

To ASHRAE London Chapter Members,

To introduce myself – I am Glenn Kernaghan, your ASHRAE London Chapter President for 2024/2025. I have been working in this industry since 2017 and have been involved with our chapter since I was a student at Western University. My hope is this year our chapter can provide great value to its members in facilitating an environment for building connections and engaging in useful learning experiences.

The theme for the 2024-25 ASHRAE Society Year is “*Empowering Our Workforce: Building a Sustainable Future.*” We are hoping, as a chapter, to achieve this goal by having our member organizations see a worthwhile investment in sending people out to our monthly meetings. We want to ensure that our industry has a sustainable future by investing in our members’ continued success in this industry.

We have an excellent board of governors of volunteers who share the same goal of growing the chapter by providing value to the members. We are aiming to build on the success of last year by hosting many of our events at similar venues that give opportunities for great peer-to-peer connection. Everything the chapter decides to do is based on feedback we have received so it is highly encouraged to please pass on any thoughts or comments about anything the chapter decides to do. This is your local chapter, and our priority is providing value to our local members.

We want to thank our donors to our previous year’s research promotion campaign who helped us achieve our chapter goal of \$10,000. This was a great success for our chapter in our 2023/24 calendar year. Support for this calendar year is always appreciated and donations can be made through the link on our chapter website. If any members are interested in volunteering for the chapter, please contact me at [Glenn.kernaghan@sjhc.london.on.ca](mailto:Glenn.kernaghan@sjhc.london.on.ca).

Glenn Kernaghan, P.Eng.



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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 30<sup>th</sup> – Chapter Technical Meeting  
Topic: Steam System Energy Efficiency  
Speaker: Tom Deslippe & Ashish Gandhi

Monday October 28<sup>th</sup> – Chapter Technical Meeting  
Topic: Low GWP Refrigerants (VRF/AHU)  
Speaker: David Kim – Engineering Manager at LG Electronics

Monday November 18<sup>th</sup> – Chapter Technical Meeting  
Topic: TBD  
Speaker: TBD

**\*\*\* be sure to check web site for latest information \*\*\***  
<http://LondonCanada.AshraeChapters.org>

### **ASHRAE Society Engineering Job Board**

The ASHRAE society Engineering job is a publicly accessible job board where all companies can create job postings for HVACR related jobs. The resource is available at <https://jobs.ashrae.org/>



**Larry Ferreira**  
Canadian Regional Sales Manager  
+1 226 231 0763 (Mobile)  
d460laf@skype (Skype)  
larry.ferreira@systemair.net  
8 Rouse St.  
Tillsonburg ON  
Canada N4G 5W8



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**Ghaleb Sater** P. Eng.  
ghaleb@odellassoc.com

Cell: 519-902-2053  
Tel: 519-652-8280  
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[www.odellassoc.com](http://www.odellassoc.com)

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contact:  
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scott.sinclair@chorley.com



## **ASHRAE RESEARCH**

Hello ASHRAE London Members,

My name is Aaron Hampel and I am the Chapter Research Promotion Chair for this year. Our Research Promotion goal for this year is \$10,000 and look forward to reaching this goal through your continued support.

This year we will be recognizing donors at a RP Donor Recognition meeting by displaying individual and company donors prior to one of the technical presentations. Donors will also be recognized in the monthly newsletter and on the London Chapter website. To donate online please visit:

<http://www.ashrae.com/donate>

### **Current Donors:**

### **Current Honour Roll Individual Donors:**

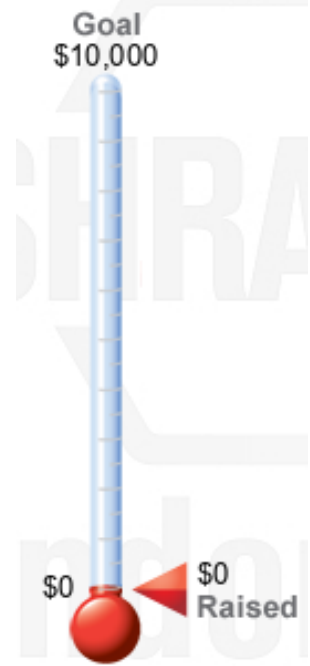
### **Current Honour Roll Corporate Donors:**

<u>Contribution Levels</u>	<u>Individual</u>	<u>Company</u>
Honour Roll	\$150 +	\$500 +
Major Donor (Bronze)	\$250 - \$999	\$500 - \$999
Major Donor (Silver)	\$1000 - \$2,499	\$1000 - \$2,499

If any questions, please contact:

**Aaron Hampel**

[aaronhampel@prestonhipps.com](mailto:aaronhampel@prestonhipps.com)





## **ASHRAE Announces Nominees for 2024-25 Slate of Officers and Directors**

ASHRAE is pleased to announce the 2024-25 slate of officers and directors.

Nominations for officers and directors were made by the ASHRAE Nominating Committee from a list recommended by individual members and from Chapters Regional Conferences.

### **President:**

Dennis Knight, P.E., BEMP, Fellow Life Member ASHRAE

### **President-Elect:**

Bill McQuade, P.E., LEED AP, Fellow ASHRAE

### **Treasurer:**

Sarah Maston, P.E., BCxP, Member ASHRAE

### **Vice Presidents:**

Devin Abellon, P.E., Member ASHRAE

Kenneth Fulk, P.E., Member ASHRAE

Wade Conlan, P.E., BCxP, CxA, LEED AP BD+C, Member ASHRAE

Chandra Sekhar, Ph.D., CPENG., Fellow ASHRAE

### **Secretary:**

Jeff Littleton, Executive Vice President, ASHRAE

### **Directors and Regional Chairs:**

Charles Bertuch, P.E., LEED AP, Member ASHRAE (Region I)

Genevieve Lussier, Member ASHRAE (Region II)

Sherry Abbott-Adkins, P.e., CPD, GDP, LEED AP, Member ASHRAE (Region III)

Bryan Holcomb, Member ASHRAE (Region IV)

James Arnold, P.E., Member ASHRAE (Region V)

Susanna Hanson, Member ASHRAE (Region VI)

Scott Peach, P.E., FPE, Member ASHRAE (Region VII)

Joe Sanders, Member ASHRAE (Region VIII)

Jonathan Smith, P.E., CEM, LEED AP, Member ASHRAE (Region IX)

Buzz Wright, P.E., CEM, LEED AP, Member ASHRAE (Region X)

Rob Craddock, Member ASHRAE (Region (Region XI)

John Constantinide, P.E., Member ASHRAE (Region XII)

Cheng WEE Leong, P.E., Member ASHRAE (Region XIII)

Mahroo Eftekhari C.Eng., CDPPhil, Member ASHRAE (Region XIV)

Richie Mittal, Fellow ASHRAE (Region XV)

### **Directors-at-Large:**

Doug Cochrane, P.Eng., LEED AP

Corey Metzger, P.E.,

Heather Schopplein, P.E.

Carrie Brown, Ph.D

Patrick Marks, P.E.

David Yashgar, Ph.D,

Luke Leung, P.E., BEMP

Blake Ellis, P.E., CDP

Wei Sun, P.E



## **June 2024 Golf Tournament**

The annual golf tournament was held at Fire Rock Golf Club on June 3<sup>th</sup> 2024. It was a great success with over 100 participants on the day. Huge thank you to all of the teams that registered, hole sponsorships, and product sponsorships.

Through the 50/50 sales and the on-course donations to various competition holes the chapter was able to donate \$3,100 directly to ASHRAE research Canada.

We were also able to make a profit of \$955.00 which is going to directly support chapter operations in the coming year with costs such as supporting the Western ASHRAE scholarship, offsetting meal/venue costs for members and students, as well as contribute to funding new member initiatives.

For any record of the accounting please contact the organizers Jim & Jeff. [james.legree@honeywell.com](mailto:james.legree@honeywell.com), [jeff.armstrong@trane.com](mailto:jeff.armstrong@trane.com)

Please pass on any suggestions or comments for next years tournament!

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## **ASHRAE Pocket Guide 10th Edition**

Now available in the ASHRAE Bookstore! The ASHRAE Pocket Guide 10th edition serves as a user-friendly, offline reference for engineers without easy access to complete ASHRAE Handbook volumes. This latest edition has been revised to include updates from the four current volumes of the ASHRAE Handbook series, from the 2019 editions of ASHRAE Standards 15, 34, 62.1, 62.2, and 90.1, and the 2020 edition of Standard 55. Learn more about what is included in the 10th edition and purchase your copy today.

<https://www.ashrae.org/technical-resources/bookstore/ashrae-pocket-guide-for-air-conditioning-heating-ventilation-refrigeration-10th-ed>

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## **New ASHRAE Certification Study Guide**

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The **NEW Certification Study Guide: Building Commissioning Professional (BCxP)** joins the growing suite of ASHRAE Certification tools to help you reach your professional goals.

Looking for something else? Also available are the **Certification Study Guides for Certified HVAC Designer (CHD)** and **Building Energy Modeling Professional (BEMP)**.

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## **Tune-in to the ASHRAE Journal Podcast**

Tune into conversations between leading ASHRAE experts as they discuss what HVAC engineers need to know to design better systems and grow the HVAC&R industry. Available on all podcast platforms.

<https://www.ashrae.org/news/ashraejournal/ashrae-journal-podcast>