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ASHRAE LONDON CANADA CHAPTER #116

TOPIC:

VRF Design Considerations and Refrigerant Updates

Presenter:

David Kim, P.Eng.
LG Electronics

Monday October 28th, 2024

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

The Club House
100 Kellogg Ln, London

[Registration Link](#)

\$90 – Members | \$30 - Students
e-Transfer to ashraelondon@gmail.com preferred



October Topic

VRF Design Considerations and Refrigerant Updates

In this presentation, there will be a quick overview of Variable Refrigerant Flow (VRF) systems, their benefits, and product ranges. We will then move on to the new refrigerant changes, highlighting the differences between R410a and the new refrigerants R32 and R454B. Additionally, an introduction to the new mechanical refrigeration code B52 and UL60335 will be provided, along with their impact on VRF design. Finally, we will discuss safety devices and measures that VRF systems can use to address design challenges and conclude with a sample calculation.

October Presenter

David Kim, P.Eng

Engineering Manager at Air Conditioning and Energy Solutions at LG Electronics

David Kim:

Graduated from University of Waterloo with Mechanical Engineering Degree.

Worked in HVAC market with LG Electronics for the past 8 years, supporting Engineers to apply VRF Applications in Canada.





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.

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 October 28/2024 – Chapter Technical Meeting
Topic: Low GWP Refrigerants (VRF/AHU)
Speaker: David Kim – Engineering Manager at LG Electronics

Monday November 18/2024 – Chapter Technical Meeting
Topic: Getting From AEDGs to Net-Zero Energy Buildings
Speaker: Terry Townsend, P.E.
Fellow ASHRAE, ASHRAE Distinguished Lecturer

Thu Dec 12/2024 – SOCIAL

***** 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/>



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contact:
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tpollard@execulink.com
or
Scott Sinclair
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:

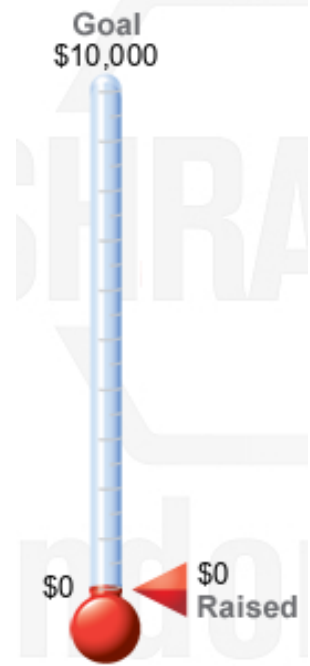
Current Honour Roll Corporate Donors:

<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





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:

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Bryan Holcomb, Member ASHRAE (Region IV)

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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

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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 3th 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, jeff.armstrong@trane.com

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

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>

New ASHRAE Certification Study Guide

Now available in the ASHRAE Bookstore

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)**.

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>