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ASHRAE LONDON CANADA CHAPTER #116

TOPIC:

CO2 Refrigeration - Application

Presenter:

Phil Boudreau
Bitzer Canada Inc.

Monday, March 27th, 2023

5:00PM – Hosted IN PERSON!

Four Points Sheraton

1150 Wellington Rd. S. London

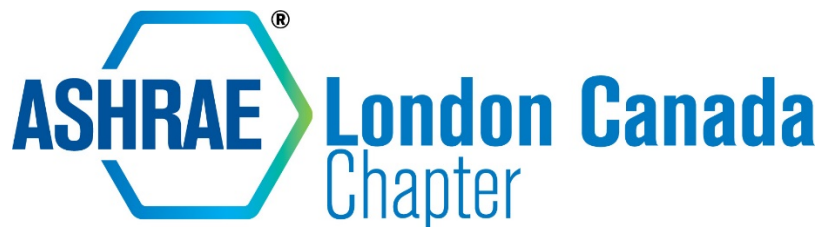
[Registration link](#)

\$85 – Members | \$25 - Students

Get Involved!

There are many volunteering opportunities within the London ASHRAE Chapter that we are looking to confirm and fill for the 2023-2024 ASHRAE year! 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. Now is an excellent time to get involved to get a feel for how the organization works and to indicate interest for chair positions next year.

It is a great way to get involved in the industry and grow your professional network. We are a very enthusiastic group and like to keep things efficient and fun!



March Topic

CO2 Refrigeration - Application

The application of CO2 refrigeration presentation will cover the below topics and allow for analysis and discussion:

- Important Properties of CO2
- CO2 Compressors
- Subcritical Concepts
- Example Subcritical Circuit Layouts
- Transcritical Concepts
- Example Transcritical Circuit Layouts

March Presenter

Phil Boudreau **Bitzer Canada Inc.**

Phil Boudreau has over 37 years' experience working in the HVACR industry, primarily specializing in refrigeration. Phil spent 22 years in wholesale and currently provides sales, training, and technical support for Bitzer Canada Inc. In addition to his previous part-time role as a refrigeration instructor for Humber College, Phil began writing technical refrigeration articles for HPAC Magazine back in the early 1990's and is currently the refrigeration columnist for Mechanical Business Magazine.



2023 Chapter President's Message

To ASHRAE London Chapter Members

I am Rajan Deenadayalan, your ASHRAE London Chapter President for 2022/2023. I am an Industrial Refrigeration Engineer and Project Manager for Drennan Refrigeration Inc. in London ON. Myself and our BOG team is very excited to serve our membership by promoting peer to peer networking, continuous education on new trends and technologies and opportunities for students to get involved in HVAC/R industry.

We have successfully completed couple of in person meetings this year at various venues around London. Thanks for members support in running in person meetings. We have few lined up until April 2023.

Next meeting will be at Four Points on CO2 refrigeration systems. This will be an interesting topic which explains emerging CO2 technology and its applications in the refrigeration industry.

Also I want to highlight your donations to chapter and society help us to run the chapter operations as well as achieving ASHRAE's mission to serve humanity through continuous research in HVAC/R industry. Please continue your support and feel free to donate using link in chapter website.

If any members interested to volunteer for chapter, please contact me at c116@ashrae.net.

Rajarajan.D, 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 March 27th – Chapter Technical Meeting

Topic: CO2 Refrigeration

Speaker: Phil Boudreau

Monday April 24th – Chapter Technical Meeting

Topic: Life Safety – Fire & Smoke Dampers

Speaker: Simon Khaled P.Eng.

*** 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/>

ASHRAE London Canada – 50th Year Anniversary

2022 is the 50th year since ASHRAE London Canada received its charter on May 8, 1972. The London chapter was formed when J. Vanstone, C.R. Morrison, J. Hoyle, F. Lucas, and J.B. Bisset meet in 1970/1971 to discuss starting a chapter which had the Hamilton Chapter offering to act as sponsor.

ASHRAE Concludes Successful Winter Conference

The ASHRAE 2023 Winter Conference concluded in Atlanta, with a strong focus on building decarbonization strategies. The conference took place February 4-8, with more than 3,000 HVAC&R industry professionals in attendance. The AHR Expo occupied 487,000 net sq ft. of exhibit space at the Georgia World Congress Center and showcased the latest technologies and services in the HVAC&R industry.

The 2023 ASHRAE Annual Conference will take place June 24 – June 28 in Tampa, Florida. The 2024 Winter Conference will take place January 20 – 24, and the AHR Expo, January 22 – 24, in Chicago.



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contact:

Newsletter Editor

Tom Pollard

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or

VP

Jeff Armstrong

jeff.armstrong@trane.com



ASHRAE RESEARCH

Hello ASHRAE London Members,

My name is Jeff Armstrong 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:

Roberts Brothers Sheet Metal
Vanderwesten & Rutherford

Current Honour Roll Individual Donors:

John Xiang, Ibrahim Semhat, Glenn Kernaghan, Jeff Armstrong, Rob Davidson, Tom Pollard
Rajarajan Deenadayalan, Aaron Hampel, Eric Shaw

Current Honour Roll Corporate Donors:

Chorley & Bisset

<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:

Jeff Armstrong

519-453-3010 x.814

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April 13, 2023 Virtual Queen's Park Advocacy Day

HRAI invites you to take part in the April 13th Virtual Day at Queen's Park. This is a rare opportunity to connect, face to face (via zoom) with Ontario's policymakers to discuss the issues that matter the most to the industry. Through your participation, you can help shape a better future for the HVACR industry in Ontario by showcasing the talent and expertise our industry has to offer.

Meeting details are as follows:

Date: Thursday, April 13, 2023

Meetings: 8am to 7pm (based on your availability)

Location: Virtual via Zoom

Registration Deadline: Friday March 31st

Mandatory Briefing Session: To ensure participants feel confident and prepared for meetings, HRAI is asking participants to attend 1 pre-meeting virtual training session. Further details regarding the training sessions will be confirmed closer to the date.

HRAI is offering two session dates:

1. Tuesday, April 11th (12pm-1pm)
2. Wednesday, April 12th (12pm-1pm)

Topics of Discussion: In addition to sharing general information about the HVACR sector, issues which we aim to bring awareness too are:

1. Supporting domestic HVACR Manufacturing
2. Supporting HVACR Workforce Development
3. Introduction of a Municipal and Community Building Retrofit Program
4. Eliminating Municipal Heating Contractor Licensing
5. Improving Ventilation and IAQ Standards

Your participation will support efforts to create a more prosperous HVACR industry in Ontario with reduced regulatory burden and supports for workforce development. Sign up today by filling out a PARTICIPANT REGISTRATION FORM. The deadline for registration for meetings by Friday, March 31st.

For more information, contact Chelsea Goberdhan at 1-800-267-2231 ext. 236, or email cgoberdhan@hrai.ca.

Registration can be found at - <https://www.surveymonkey.com/r/S7C27PW>

ASHRAE Announces Nominees for 2023-24 Slate of Officers and Directors

Doug Cochrane (Region II) was recently announced to serve as a Director-at-Large. Please see below announcement:

ATLANTA (February 6, 2023) – ASHRAE is pleased to announce its nominees for the 2023-24 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.

The 2023-24 nominees are as follows:

President:

Ginger Scoggins, P.E., Fellow ASHRAE



President-Elect:

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

Treasurer:

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

Vice Presidents:

Billy Austin, P.E., BCxP, BEAP, BEMP, CHD, HBDP, HFDP, OPMP, Fellow ASHRAE

Ashish Rakheja

Wade Conlan, BCxP

Chandra Sekhar, Ph.D., Fellow ASHRAE

Directors and Regional Chairs:

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

Joe Sanders (Region VIII)

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

Buzz Wright, P.E., FPE (Region X)

Mahroo Eftekhari (Region XIV)

Directors-at-Large:

Doug Cochrane, P.Eng., LEED AP

Corey Metzger, P.E.,

Heather Schopplein, P.E.

Alternate Director-at-Large:

Patrick Marks, P.E., Fellow ASHRAE

ASHRAE members will vote on the nominees via electronic ballot in May. Ginger Scoggins, P.E., Fellow ASHRAE, will serve as ASHRAE President for the 2023-24 Society Year.

ASHRAE Cold Climate Conference 2023

The ASHRAE Alaska Chapter warmly invites you to join us in Alaska in March 2023 for two amazing international conferences!

The first conference, the “ASHRAE and SCANVAC HVAC Cold Climate Conference 2023” is being co-organized by ASHRAE and SCANVAC and will be held in Anchorage from March 6-8th. For an additional registration fee, attendees can continue their arctic experience at the “Arctic Mini Conference”, in Fairbanks from March 9th-10th.

The goal of the conferences is for Built Environment engineers, practitioners, researchers, scientists, owners and government officials working in Cold Climate regions to share recent solutions and advancements addressing changes in climate; while experiencing the warmth, hospitality and culture of Alaska.

The technical presentations will provide relevant and practical solutions to handle the challenges of today as well as tomorrow in the Changing Arctic. Our goal is to ensure all attendees leave the conference with new tools and ideas that they can implement in their designs and communities, as well as excitement and inspiration for solutions yet to come.

Come to network with professionals from across the Arctic and learn what other nations are doing in our industry to address these challenges. Now more than ever, it is important for the People of the Arctic to share current Best Practices and collaborate on innovative solutions.



Beyond the technical scope, we Alaskans are known for our hospitality, just as Alaska is known for its natural beauty. We've made this conference one that will be remembered for decades!

Dates and Locations:

March 6-8, 2023—Anchorage

March 9-10, 2023—Fairbanks

Conference Website:

ashrae.org/2023hvaccoldclimate

ASHRAE Recognizes Excellent Achievements of Members at the 2023 Winter Conference

Recognizing Canadian ASHRAE accomplishments there were 3 Canadian technology awards given which are included below. For the full list please go to <https://www.ashrae.org/about/news/2023/ashrae-recognizes-excellent-achievements-of-members-at-the-2023-winter-conference>

ATLANTA (February 5, 2023) – ASHRAE recognized the excellent achievements and contributions of members to the Society and the built environment industry during its 2023 Winter Conference in Atlanta.

Award of Engineering Excellence

The Award of Engineering Excellence was created in 1989 to recognize a first-place winner of the Society-level Technology Award competition for an outstanding application of innovative design and effective energy utilization. The recipient of the Award of Engineering Excellence will have demonstrated the best overall compliance with the judging criteria.

First place recipients of the Award of Engineering Excellence are:

- Lianne Cockerton, ing. and Martin Roy, ing., new institutional buildings category, Local 144, Point-aux-Trembles, Quebec, Canada. The building is owned by Association Unie Local 144.

The ASHRAE Technology Awards

The ASHRAE Technology Awards recognize outstanding achievements by ASHRAE members who have successfully applied innovative building designs. Their designs incorporate ASHRAE standards for effective energy management and indoor air quality and serve to communicate innovative systems design. Winning projects are selected from entries earning regional awards.

- Simon Kattoura, P.Eng., existing industrial facilities or processes category, Hood Packaging Corporation, Montreal, Quebec, Canada. The building is owned by Hood Packaging Corporation.
 - Adrienne Mitani, P.Eng., residential facilities category, 70 Gloucester, Ottawa, Ontario, Canada. The building is owned by Claridge Homes.
-



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>