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ASHRAE LONDON CANADA CHAPTER #116

TOPIC:

Fuel-Switching Hydronic Systems Using Air-To-Water Heat Pumps

Presenter:

Christopher DesRoches, P.Eng.

Applied Product Manager, HVAC Division
Mitsubishi Electric Sales Canada Inc.

Monday, November 21st, 2022

5:00PM – Hosted IN PERSON!

Four Points by Sheraton

1150 Wellington Rd. S.

[Registration link](#)

\$70 – Members | \$25 - Students



November Topic

Fuel-Switching Hydronic Systems Using Air-To-Water Heat Pumps

Join Chris DesRoches, Applied Product Manager with Mitsubishi Electric Sales Canada to discuss Air-to-Water Heat Pumps and how they can best be leveraged to reduce building emissions in retrofits of hydronic systems and new construction alike. Learn about various applications and how a simple air-cooled chiller upgrade to an air-to-water heat pump can lead to significant emission and energy use reductions. See exactly how this technology fits into a low-carbon future with electrified buildings from the point of view of engineers, mechanical designers, and energy modelers.

Key takeaways from the session:

1. Understand the concept of fuel-switching and its importance for high efficiency retrofit of existing building central plant systems.
2. Learn design strategies, sizing methodologies and application techniques of using air-to-water heat pump plant equipment.
3. Learn about the energy and cost savings, and emission reductions achievable with fuel-switching retrofit of traditional central plant systems with air-to-water heat pumps

November Presenter

Christopher DesRoches, P.Eng.

Applied Product Manager, HVAC Division
Mitsubishi Electric Sales Canada Inc.

Chris is a Professional Engineer and holds a Bachelor's degree in Mechanical Engineering from Dalhousie University in Halifax, Nova Scotia. As Applied Product Manager, Chris is a subject-matter expert on Hydronic Heat Pump solutions. Chris has a passion for efficient and environmentally responsible HVAC solutions which will be imperative in the preparation for the future of the built environment, as the industry strategizes to meet local and global targets to mitigate the effects of climate change.



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.

It's been a tough past 2 years for all us due to COVID pandemic and restrictions. We could not organize any in person meetings since February 2020 due to pandemic. I take this moment to inform you all we are going back to in-person meetings for the year 2022/2023. Few items I want to highlight as below:

- September 26th is Chapter Golf Tournament Day. it's a great opportunity to see people from industry and spend a nice day at Fire Rock Golf Club.
- October 24th is a technical meeting. Please check chapter website for more details on venue and speaker/ topic. Registration link will be available soon.
- For this year, we are aiming to bring interesting meeting topics which are informative, useful innovative and up to current trends in industry.
- Various sponsorship/advertisement opportunities are available within chapter including Research Promotion donation, student meal sponsorship, table top display in meetings and business card display in newsletter. Your contribution helps to run local chapter operations and ASHRAE society in development of novel technologies, standards, bulletins and technical books.

If you know anyone who wants to join London ASHRAE Chapter, please contact chapter membership chair.

If you have any questions in the meantime please reach out to the BOG. You can also contact me directly at rdeenath@drennan.on.ca. We are looking forward to see you all soon.

From your ASHRAE London Chapter BOG



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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 November 21st – Chapter Technical Meeting
Topic: Air to Water Heat Pumps
Speaker: Christopher DesRoches, Mitsubishi Electric

December Social – 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/>

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.




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contact:
Newsletter Editor
Tom Pollard
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or
Treasurer
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:

Current Honour Roll Individual Donors:

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

Current Honour Roll Corporate Donors:

Current Corporate Major Donor Silver:

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

If any questions, please contact:

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