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# ASHRAE LONDON CANADA CHAPTER #116

**TOPIC:**

**HVAC Building Pressurization Systems – Lessons Learned**

**Presenter:**

**Erich Binder**

**ASHRAE Distinguished Lecturer**

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**With history presentation looking at  
ASHRAE London Canada 50<sup>th</sup> Year Anniversary**

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**Monday, April 25, 2022**

**5:00-6:30 PM – Hosted virtually on**

**‘GoToMeeting’**

**Cost = \$30.00\***

**[Registration link](#)**

**\*One-time fee for full year of meetings – if you have registered for a previous meeting no action required!**

Hosted by ASHRAE London in joint online meeting with ASHRAE Windsor

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**SAVE THE DATE – ASHRAE London Golf Tournament – Monday September 26th**

We have organized the date for this year’s annual golf tournament to be on Monday September 26<sup>th</sup> where we will return to FireRock Golf Club after last years great success. We will of course monitor all covid regulations, but we are looking forward to possibly returning to a “normal” style tournament while adopting some of the items that made the 2021 tournament so enjoyable!

We are currently organizing the day and if any person or company is interested in helping with the day or sponsoring an activity or item, please reach out to any board member!



## April Topic

### **HVAC Building Pressurization Systems – Lessons Learned**

A recent audit of 35 existing buildings have known pressurization's issues including:

- Over Pressure of buildings often to much make up air.
- Under Pressure in building due to leaks, inadequate HVAC, poor construction, on site modifications.
- Improper HVAC Economizers operation (waste heat recovery.)
- Poorly controlled, designed and or constructed relief systems.
- Commissioning and Operation issues.

Pressurization is a critical for maintaining room cleanliness in Labs, Hospitals, Processing, Manufacturing, Control, Computer, MCC, VFD & Electrical Buildings, etc.

Design margins should be incorporated in the pressurization system to allow for building envelope seal degradation.

When pressurization is required for safety or code compliance, make provisions for periodic surveillance & testing.

Critical facilities require a leak test of exterior & interior walls, partitions, doors, and windows between two adjacent areas with different pressurization levels & any building elements between two areas with different pressurization levels.

## April Presenter

Erich Binder is an independent engineering consultant with an extensive experience in in the sustainable design of Commercial, Institutional, Industrial, & Cold Climate, Heating Ventilation & Air Conditioning (HVAC), Plumbing, Fire Suppression & Specialty Mechanical Systems engineering. Erich has also a Certified Risk Manager with over 20 years of Process Safety, Loss Prevention, Industrial Hygiene, Health & Safety Engineering and Auditing experience. Including Corporate Emergency Response and Merger and Acquisition Activities Education and certification includes

- Registered Engineering Technologists RET, Alberta Society of Engineering Technologists (ASET)
- Sothern Alberta Polytechnic (SAIT), Air Conditioning Engineering Technology Diploma
- SAIT Polytechnic, Registered Instructor
- Certified Risk Manager CRM, Risk Insurance Management Society (RIMS)
- Refrigeration Service Engineers Society Certificate, HVAC and Building Automation Controls
- Decision & Risk Analysis & Value Engineering Certification



Erich has extensive experience engineering mechanical system for a variety of cold climate applications. These include Oil & Gas projects include developing HVAC standards and engineering for numerous process facilities for Oil Sands, SAGD and Mining Projects, Gas Processing, Metering Compression and Pipeline facilities, Upstream, Mid Stream, Down Stream Facilities. Erich Binder has engineered HVAC systems for various support facilities for various Industrial projects including Control Buildings, E-House, VFD and Data Storage Facilities, Maintenance, Storage and Emergency Response Facilities. He has extensive experience in Power Generation facilities, including Coal, Natural Gas, Waste Heat, Waste Wood, Run of the River and Combined Heat Power systems. Erich specializes in Hazardous spaces and environments, Laboratory, Sampling Stations, Hazardous Environment, Dust, Mist and Fume collection systems, Industrial Hygiene facilities. Erich Binder has worked as a Risk Analyst & Loss Prevention Consultant providing input into corporate insurance placement, managed Boiler Machinery, Construction Project Losses, Claims and Loss Prevention issues. He has provided support to Insurance Brokers and Insurance companies representatives to review and investigate the cause of failures relating to Power, Natural gas Mid-Stream, Compression, Metering and Pipeline machinery and fire explosion related failures. Erich Coordinated Risk and Loss Prevention audits and inspections for all corporate facilities. A key member of corporate Emergency Response Team and key leaders in Responsible Care, ISO9000, merger and acquisition programs.

## Chapter President's Message

To ASHRAE London Chapter Members,

I am Kate Mayberry, your ASHRAE London Chapter President for 2021/2022. I am a Mechanical Engineer for Strik Baldinelli Moniz Ltd. located in London ON.

These past couple of years has been challenging for all of us and hope that you and your family are in good health and spirits. Thank you to everybody that attended our virtual meetings in 2020/2021! Similar to last year, our typical way of conducting ASHRAE business will be a bit different than previous years, and we will continue with Chapter meetings virtually on Go to Meeting until at least January but most likely will be all year. London and Windsor Chapters will alternate hosting meetings, combining members from both chapters. There are currently 7 meetings being planned for the 2021/2022 year. There will be a one-time fee of \$30 to attend any or all the virtual meetings this year and a sign up form will be sent out shortly. Again this year, we will be taking advantage of the virtual meetings and booking many ASHRAE Distinguished Lecturer speakers.

We have an enthusiastic board of governors/committee chairs with lots of ideas for the year and we always have space for members wanting to join.

If you have any questions, please reach out to the ASHRAE London Chapter Board of Governors. You can also contact me directly at:

Kate Mayberry  
c116@ashrae.net

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.

www.somerscp.com

**Scott Turner**, Technical Sales Rep

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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 April 25 – Chapter Meeting**

- Hosted by ASHRAE London

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

<http://LondonCanada.AshraeChapters.org>

## **Society Upcoming Meeting** **June 25-29 – ASHRAE Annual Conference**

- Hosted by ASHRAE Toronto
- For more information click [here](https://www.ashrae.org/conferences/2022-annual-conference-toronto):  
<https://www.ashrae.org/conferences/2022-annual-conference-toronto>
- See below in this newsletter for more information

## **Coronavirus COVID-19 Response Resources**

ASHRAE has compiled a list of industry reviewed and recommended resources on COVID-19 guidelines and FAQ's. Please follow the below link to access to these resources:

[www.ashrae.org/covid19](http://www.ashrae.org/covid19)



### **Guide to the COVID-19 Pages**

Follow the links on the infographic

[LEARN MORE](#)



### **Core Recommendations**

for Reducing Airborne Infectious Aerosol Exposure

[LEARN MORE](#)



### **Questions Answered**

Frequently Asked Questions and Glossary of Terms

[FAQ / GLOSSARY](#)



### **One Page Guidance Documents**

[VIEW GUIDANCE](#)

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Place your business card HERE  
Just \$100 for one year  
and includes also on the chapter  
web site

contact:

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Tom Pollard  
tpollard@execulink.com

or

**Treasurer**

Jeff Armstrong  
jeff.armstrong@trane.com





### **ASHRAE London Canada – Chapter Elections**

The Chapter needs to elect new President, Vice-President, Treasurer, Secretary for the July 1/2022 to June 30/2023 Society year. Elected positions are now open until May 31/2022. Chapter chair positions are also needed to be filled. If you can assist in any chapter operations and functions, please let a current Board Member know.

There are many volunteering opportunities within the London ASHRAE Chapter! 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. We are currently looking for someone who would be interested in helping organize the 2022 golf tournament as well as people for chair positions. 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!

### **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 – 50<sup>th</sup> 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 Annual Meeting in Toronto**

**June 25-29/2022**

Find answers, inspiration, and the latest industry trends through unmatched technical sessions and connecting with peers. Committee meetings, Professional Development Seminars, Technical Sessions, and other events are planned.

<https://www.ashrae.org/conferences/2022-annual-conference-toronto>

Join ASHRAE in Toronto – Early Bird Rates End April 30!

If you are interested in becoming a **monitor** at the annual conference in June, you can sign up here:

<http://www.torontoashrae.com/event-4772171>

The conference will be held at the Sheraton Centre, 123 Queen St W, Toronto, ON, Canada, M5H 2M9.

Monitors receive a complimentary conference registration in exchange for performing monitoring duties related to technical sessions during one half a day shift during the conference, for example:

- check attendee access to technical session based the ASHRAE badges
- oversee the operation of the session room and request technical support if required
- collect materials distributed during the session
- record attendance for each session



### **ASHRAE Toronto Chapter's 100th Anniversary Celebration**

2022 marks the Toronto Chapter's 100th anniversary! Toronto is excited to host the 2022 ASHRAE Annual Conference and the Toronto Host Committee is working hard to provide an experience ASHRAE attendees won't forget.

Celebration will take place at Hart House, a beloved historic structure in downtown Toronto. This expansive outdoor and indoor space combination has a spectacular castle-like feel and views of original stonework and leaded glass windows.

Venue: Hart House, 7 Hart House Cir, Toronto ON M5S 3H3

When: 6:30 PM onwards on Friday, June 24, 2022

Registration: \$80.00

<https://torontoashrae.com/event-4726224>

### **ASHRAE RESEARCH**

Hello ASHRAE London Members,

My name is Raj Deenadayalan and I am your Chapter Research Promotion Chair for this year. Our Research Promotion goal for this year is \$12,500 and look forward to reaching this goal through your continued support.

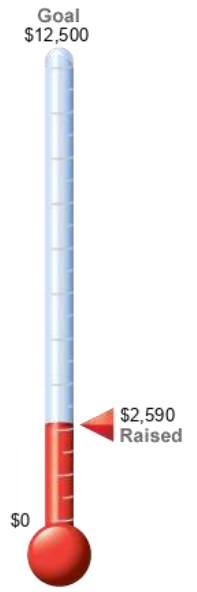
This year we will be recognizing donors at a RP Donor Recognition meeting by displaying individual and company donors prior to one of the technical presentations. Donors will also be recognized in the monthly newsletter and on the London Chapter website. To donate online please visit:

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

#### **Current Donors:**

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Tom Pollard, Glenn Kernaghan, Jeff Armstrong, Rajarajan Deenadayalan, Richard Hammond,  
John Xiang, Ibrahim Semhat, Kathleen Mayberry, Christopher Zettler, Andrew Crowley



<u>Contribution Levels</u>	<u>Individual</u>	<u>Company</u>
ASHRAE 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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