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ASHRAE LONDON CANADA CHAPTER #116

TOPIC:

Precision Airflow Control Devices

Presenter:

**David Enns, P. Eng.
ANTEC CONTROLS**

February 22, 2021

4:30 PM – Hosted virtually on ‘GoToMeeting’

Cost = \$30.00*

Registration link: <https://forms.gle/qnW2Ezkt7qaF7Htf6>

***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



February Topic

Precision Airflow Control Devices

This session will teach you the fundamentals of precision airflow control devices. You will be introduced to VAV boxes, High accuracy terminals and Venturi Valve technologies. Focusing on recommended applications for each, you will get a chance to learn about different versions of each valve type to get a thorough understanding of the full scope of each technology.

Learning objectives:

- Identify a device as a high accuracy terminal or a venturi valve
- Identify the unique differences of different venturi valves and high accuracy terminal units in the market
- Identify the design and operational features of different venturi valves and high accuracy terminal units in the market
- Apply venturi valves and high accuracy terminal to critical space design

1 PDH Credit Available

February Presenter

David Enns

David is a registered Professional Engineer in the Province of Manitoba with a B.Sc. in Mechanical Engineering from the University of Manitoba. He specializes in the control and monitoring of critical spaces and has been with Antec Controls for 8 years.



Chapter President's Message

To ASHRAE London Chapter Members

I am Andrew Crowley, your ASHRAE London Chapter President for 2020/2021. I am an industrial refrigeration engineer, Engineering Manager for Drennan Refrigeration Inc. in London ON.

It has been an interesting year for all of us, challenging for most, and I hope this email finds you and your family in good health and spirits.

As you are aware, our usual way of conducting ASHRAE business is different this year, and I want to update everyone on some important changes:

- Chapter meetings, until at least January but more than likely all year, will take place virtually on Go to Meeting.
- Most meetings will begin at 4:30pm. The first hour will be ASHRAE business and technical presentation. The second hour will be Q & A and a "virtual" social.
- London and Windsor Chapters will alternate hosting meetings, combining members from both chapters. There are currently 8 meeting dates scheduled
- There will be a one-time fee of \$30 to attend any or all the virtual meetings this year. Any proceeds raised from this will be donated to Research Promotion and other charity. A sign up form will be sent out shortly.
- We will be taking advantage of the virtual year and booking many DL speakers!

If you have any questions in the meantime please reach out to the BOG. You can also contact me directly at

Andrew Crowley
Drennan Refrigeration Inc.
acrowley@drennan.on.ca

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.



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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, February 22 – Chapter Meeting

- Hosted by ASHRAE London

Tuesday, March 23 – Chapter Meeting

- Hosted by ASHRAE Windsor

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

<http://LondonCanada.AshraeChapters.org>

ASHRAE LONDON CANADA Board of Governors

The chapter is excited to announce the new elect Board members to the positions of Chapter President, Vice-President, Secretary, and Treasurer as well as all the committee chair positions for 2020-2021.

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.

ASHRAE 2021 Winter Conference

ATLANTA (October 15, 2020) – ASHRAE has announced that the 2021 AHR Expo, originally scheduled to be held January 25-27, 2021 at McCormick Place in Chicago, IL has been cancelled. ASHRAE worked alongside AHRI and Show Management to explore every possibility that could lead to hosting an in-person event, but unfortunately, the pandemic continues to present challenges and unpredictable variables.

The 2021 ASHRAE Winter Virtual Conference, which will include a mixture of live, pre-recorded and on-demand sessions, will take place February 9-11, 2021. For more details please follow the link below.

<https://www.ashrae.org/conferences/2021-virtual-winter-conference>



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OSPE Article: Engineers call on Ontario to refocus efforts on the airborne transmission of COVID-19

It has been roughly 10 months since our first COVID-19 lockdown in Ontario, and case numbers are worse than ever. Social distancing, restrictions on businesses and more lockdown orders have been put in place, but during these winter months they do not seem to be helping. Many are feeling hopeless and are wondering “what more can be done to combat the spread of COVID-19?” The Ontario government’s only response has been to close businesses, schools and other sites that are transmitting the virus. Are there other solutions to augment this?

OSPE and its engineers believe there is a key piece to our defence against this virus that has not been properly addressed by the Ontario government – the need for proper ventilation and air filtration to stop the spread of the virus via infected aerosol particles in the air.

Back in August, before schools reopened, we published a blog wondering how safe schools would be once classes were back in session. During this time, the focus for transmission was still on person-to-person contact, COVID “droplets,” and close contact with infected surfaces or people. Clearly combatting these means of infection could only do so much, as we have seen a number of outbreaks occur in schools since students returned to classes in person.

Since then, both the World Health Organization and the Public Health Agency of Canada have recognized the spread of COVID-19 transmission via airborne aerosol particles; however, Public Health Ontario (PHO) seems less convinced. PHO does recognize airborne transmission as a possibility but states that it is unlikely and only possible “during prolonged exposure in a poorly ventilated space.”

OSPE believes that airborne transmission is one of the main reasons why we are seeing so many outbreaks in schools and long-term care facilities across the province. With outdoor temperatures dropping, many of these buildings have shut themselves off from fresh air that would have helped get rid of these COVID aerosol particles. Instead, many of these buildings have closed HVAC systems that recirculate the same, potentially infected, air.

Earlier this year, the American Society of Heating, Refrigeration & Air-Conditioning Engineers (ASHRAE) published their report, ASHRAE Position Document on Infectious Aerosols, which summarizes their findings on the effectiveness of proper ventilation and filtration on the spreading of infectious aerosols. What they found was that “...HVAC systems can have a major effect on the transmission [of infectious diseases] from the primary host to secondary hosts. Decreasing exposure of secondary hosts is an important step in curtailing the spread of infectious diseases.” To read the full report, [click here](#). OSPE is calling on the Ontario government to immediately address the airborne transmission of COVID-19 to help slow the spread of the virus. OSPE still believes that social distancing and proper hygiene are also incredibly important but believes that adding extra precautions for airborne transmission will only help our defence against this deadly virus.

Other groups have already voiced their concerns to the government, and after careful consideration of the evidence, we are reaffirming our position. In fact, OSPE believes consulting with engineers, scientist, HVAC specialist and other experts in these fields should be done immediately in order to help the Ontario government adequately address this issue before more outbreaks occur.

<https://ospe.on.ca/featured/engineers-call-on-ontario-to-refocus-efforts-on-the-airborne-transmission-of-covid-19/>

ASHRAE RESEARCH

Hello ASHRAE London Members,

My name is Kate Mayberry and I am your Chapter Research Promotion Chair for this year. Our Research Promotion goal for this year is \$12,550 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 Honour Roll Individual Donors:

Tom Pollard, Jeff Armstrong, Kate Mayberry, Ibrahim Semhat

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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519-471-6667 x202

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ASHRAE's Building EQ Portal provides a quick energy analysis that benchmarks a building's energy performance. Building EQ assists in the preparation of an ASHRAE Level 1 Energy Audit to identify means to improve a building's energy performance including low-cost, no-cost energy efficiency measures and an Indoor Environmental Quality survey with recorded measurements to provide additional information to assess a building's performance.

Two different evaluations can be used independently to compare a candidate building to other similar buildings in the same climate zone or together for an assessment of a building's design potential compared to actual operation:

- **In Operation** compares actual building energy use based on metered energy information.
- **As Designed** compares potential energy use based on the building's physical characteristics and systems with standardized energy use simulation.

Learn more on how to access the portal, initiate a project, and begin a submission:

<https://www.ashrae.org/technical-resources/building-eq/building-eq-portal>