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# ASHRAE LONDON CANADA CHAPTER #116

**TOPIC:**

**Standard 189.1 - Standards for the Design of High-Performance Buildings; Except Low-Rise Residential**

**GBCI Approved | 1 CE Hours | 0920020242  
AIA Approved | 1 LU/HSW | SDHPB19**

**Presenter:**

**Douglas Zentz**

Associate Professor – HVACR Program Coordinator  
HVACR Program  
School of Built Environment  
College of Engineering Technology

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**Tuesday, January 18, 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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**Happy New Year!**

Happy New Year from everyone on the board of governors! We hope everyone had a happy and safe Christmas and holidays and we are looking forward to another year ahead.

We will continue to host virtual meetings for the short-term future but we will try to organize a return to our old in-person meetings as soon as it is reasonably possible. We are currently planning the 2022 Golf Tournament as well as getting prepared for our chapter hosting the CRC in the next couple of years. If you or anyone you know would be interested in being involved in the board or any specific event organization committees, we always welcome all volunteers and would love for you to reach out to any of us with any thoughts or interests!

## **January Topic**

### **Standard 189.1 - Standards for the Design of High Performance Buildings; Except Low-Rise Residential**

This new ASHRAE standard was developed in coordination with USBGC and IESNA for the purpose of creating a code ready standard that addresses the overall building performance needs in establishing a minimum level of acceptance as to what is a "GREEN" building. ASHRAE Standard 189.1 incorporates ASHRAE Standards 62.1, 55, and 90.1 (all current versions) and the platform of LEED to develop code language explanations for all areas of a Green Building and what the building owner can expect for building performance. The presentation will address the following in reference to ASHRAE 189.1; (a) Why have it?, (b) Relationship to Other ASHRAE Standards, and (c) What is in the Standard. The content of the details of the standard will be covered in a general context (due to time) as it will outline the areas of the standard, show Mandatory elements within each area of the standard, and then illustrate the two paths of compliance (prescriptive and performance) for each area of the standard.

## **January Presenter**

Douglas F. Zentz, Associate Professor, is the Program Coordinator for the HVACR Programs within the College of Engineering Technology at Ferris State University. He received his Bachelor degree in Mechanical Engineering Technology from Purdue University in 1980 and his Master degree in Career and Technical Education from Ferris State University in 2007. He is a past President of West Michigan ASHRAE, a past RVC of Student Activities for Region V, and past Chair for Student Activities within ASHRAE.

In the field of HVACR, his background includes professional engineering sales for the Trane Company, manager of engineering-design-build for W.J. O'Neil Company in Detroit, and vice-president of engineering for EPPA-Strand Custom Air Handling in Detroit. This experience started in 1980 and continued until his transformation into teaching at Ferris State University in 2003.



In the area of teaching, he has taught junior and senior level HVAC Design (primary and secondary systems), Primary Equipment Selection, Commercial Building Heat Gain/ Heat and the senior Capstone Experience. His teaching experiences includes development of new curriculum (both in the traditional classroom and fully on-line) and teaching fully on-line courses for over 10 years. He has mentored eight (8) different student groups which have received either a First, Second, or Third place recognition from ASHRAE in the Student Design Competition. He serves on many educational committees and was a member of Fluke Instrument's Advisory Board on IAQ.

In the area of professional speaking, he has been the guest speaker at 36 events since 2005. Organizations which have invited him to speak include: 1) Mechanical Contractors of America, 2) Air Conditioning Contractors of America, 3) ASHRAE 4) ARI (teachers workshop), 5) Lily West Conference (educational workshop), 6) USGBC (West Michigan), 7) Ferris State University (Energy Conferences), and 8) Efficiency United (educational arm of 16 Michigan Utilities).

## 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.



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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**

### **Tuesday January 18 – Chapter Meeting**

- Hosted by ASHRAE Windsor

**\*\*\* 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>

## **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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tpollard@execulink.com  
or

#### **Treasurer**

Jeff Armstrong  
jeff.armstrong@trane.com



## **ASHRAE Epidemic Task Force Releases Updated Airborne Transmission Guidance**

ATLANTA (April 5, 2021) – The ASHRAE Epidemic Task Force released an updated, unequivocal statement on the airborne transmission of SARS-CoV-2 in buildings.

ASHRAE has released the following statement:

“Airborne transmission of SARS-CoV-2 is significant and should be controlled. Changes to building operations, including the operation of heating, ventilating, and air-conditioning systems, can reduce airborne exposures.”

It replaces the April 2020 statement that said airborne transmission was “sufficiently likely” that airborne precautions should be taken. At that time both, the World Health Organization (WHO) and the Centers for Diseases Control (CDC), contended that transmission of SARS-CoV2 was by droplet and fomite modes, not airborne. Subsequently, both have acknowledged the risk of airborne transmission indoors.

“This may seem like a small step, but we feel it is important to leave no doubt about our position, given the muted support for ventilation and filtration as important tools in the effort to stop the pandemic, from some organizations that should be leading more strongly,” said William P. Bahnfleth, Ph.D., P.E., ASHRAE Epidemic Task Force chair.

The ASHRAE Epidemic Task Force has been developing and disseminating guidance for the control of airborne transmission of SARS-CoV-2 since its formation in March 2020.

“ASHRAE volunteers have played a huge role in evaluating evidence and developing detailed guidance to improve indoor environmental quality,” said Bahnfleth. “The public, globally, is benefitting from the volunteer efforts of some of the most knowledgeable scientists and engineers in our field and this updated guidance is proof of it.”

To view the complete airborne transmission statement and other COVID-19 resources, visit [ashrae.org/COVID-19](http://ashrae.org/COVID-19). Questions specific to Epidemic Task Force guidance can be emailed to [covid-19@ashrae.org](mailto:covid-19@ashrae.org).

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## **ASHRAE LONDON – Call for Volunteers**

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 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 Honour Roll Individual Donors:**

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

### **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:

**Rajarajan Deenadayalan**

**519-453-9100**

[rdeenath@drennan.on.ca](mailto:rdeenath@drennan.on.ca)



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>