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# ASHRAE LONDON CANADA CHAPTER #116

**TOPIC:**

**Getting From AEDGs to Net-Zero Energy Buildings**

**Presenter:**

**Terry E. Townsend, P.E.**

**Monday November 29 , 2021**

**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

**Winter Social – Wed December 8<sup>th</sup>**

**6:00 PM – The Rec Room**

**CF Masonville Place**

**1680 Richmond St, London**

**Cost = Free for ASHRAE London**

**Members**

**[Registration link](#)**



**Please register if you are interested in attending so that we can confirm numbers. Looking forward to seeing everyone in person!**

**\*Please note standard vaccine policy will apply for the restaurant**

## **November Topic**

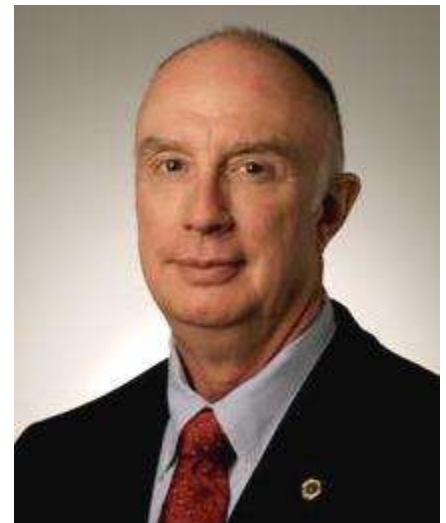
### **Getting From AEDGs to Net-Zero Energy Buildings**

ASHRAE's Vision 2020 Producing Net Zero Energy Buildings establishes a time-line to develop the necessary guidance to achieve Net-Zero Energy Buildings by 2020. The basis for this guidance will be the Advanced Energy Design Guides (AEDGs) series as well as publications pertaining to advanced Indoor Environmental Quality and Comfort. Today there are numerous examples of Net-Zero Energy Buildings as demonstrated during ASHRAE's Net-Zero and Beyond Conference in 2009. This presentation will cover the guidance contained in the existing AEDG documents for different building types and climatic zones, IEQ design guidance for high performing buildings, along with examples of buildings that have successfully demonstrated 30%, 50% and greater savings over the requirements of 90.1 including various Net-Zero Energy facilities. Various levels of "Prescriptive Guidelines" will be provided for all building systems and components along with "Lessons Learned" by the participants who have achieved Net-Zero Energy Buildings.

## **November Presenter**

### **Terry E. Townsend, P.E.**

Terry E. Townsend, P.E., Fellow ASHRAE, is president, Townsend Engineering Inc., Chattanooga, Tennessee, and Panama City, Florida. In 2006-07, he served as president of ASHRAE, where he focused the Society's efforts on The ASHRAE Promise: A Sustainable Future, highlighting ASHRAE's work in sustainability in the building environment. His achievements as president include launching ASHRAE's first ever certification program, accelerating and expanding the Advanced Energy Design Guide series, setting more stringent savings for ASHRAE's energy standard, and proving resources on how ASHRAE can minimize the impact of its meetings on the environment.



## 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

### Monday November 29 – Chapter Meeting

- Hosted by ASHRAE London

**\*\*\* be sure to check web site for latest information \*\*\***  
<http://LondonCanada.AshraeChapters.org>

## 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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### Business Card Ads

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

contact:

#### Newsletter Editor

Tom Pollard  
 tpollard@execulink.com  
 or

#### Treasurer

Jeff Armstrong  
 jeff.armstrong@trane.com



## **ASHRAE Golf**

### ASHRAE LONDON - 2021 GOLF TOURNAMENT

The delayed golf tournament was held on Sept 27/2021 with 22 teams enjoying the outing at Firerock Golf Club

Winners: Chorley + Bisset - Dennis Dawe (absent), Paul Schepens, Lance Dickson, Kevin Bushell

Most Honest Team: Smith Energy - Steven Weber, Rob Davidson, Anthony Jonkov, Sotirios Petrou

HTS Men's Closest to the Pin: Rob Ferris

Somers Ladies Closest to the Pin: Marianne Shaw

Trane Men's Longest Drive: Sam Gallant

Trane Ladies Longest Drive: Johanna Mitsopoulos

Putting Contest: Justin Pennings

Beat the Pro: Mitch Vermiere

50/50 Winner (\$370): Dwayne Shimshaw

## **Thank you very much to all of our generous sponsors:**

Ladies closest to the pin = Somers Environmental Products

Men's closest to the pin = HTS Engineering

Longest Drive Men's/Women's = Trane

Ice Trike = O'Dell Associates

BoxCar Donuts = EH Price

### Hole Sponsors:

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Chorley + Bisset	Enerzone	Masters Group	Smith Energy	
CJ Zettler	Engineered Air	Mitsubishi Electric Canada	Somers Environmental	
Drennan Refrigeration	Gordon Electric	O'Dell and	SystemAir	

### **Photos from the day can be viewed at:**

<https://www.dropbox.com/sh/csn3ckdezu8lb/AACEzUomcWIMDPrLmCP2L8G0a?dl=0>





## **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

### **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>