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# ASHRAE LONDON CANADA CHAPTER #116

**TOPIC:**

**Presidential Address: The ASHRAE Digital  
Lighthouse and Industry 4.0**

**Presenter:**

**ASHRAE President**

**Charles 'Chuck' Gulledge III, P.E., HBDP, LEED AP  
2020-2021 ASHRAE President**

**November 30, 2020**

**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

## **November Topic**

### **Presidential Address: The ASHRAE Digital Lighthouse and Industry 4.0**

The presidential theme, The ASHRAE Digital Lighthouse and Industry 4.0, focuses on reimagining the building industry by integrating people, industry segments and technology. This digital transformation includes building-specific technology, the Internet of Things and connected data platforms. The theme's aim is for ASHRAE members to learn how to bring the right people together who have the right knowledge, skills and creativity and identify new, dynamic design processes.

## **November Presenter**

### **Charles 'Chuck' Gulledge III, P.E., HBDP, LEED AP 2020-2021 ASHRAE President**

Charles E. Gulledge III, P.E., HBDP, LEED AP, Fellow ASHRAE, is ASHRAE's President for the 2020-21 term. Gulledge previously served on the ASHRAE Board of Directors as president-elect, treasurer, vice president and director-at-large.

For his time and dedication to ASHRAE and the industry, he is the recipient of numerous awards including the Exceptional Service Award, Distinguished Service Award, Chapter Service Award, Regional Award of Merit, two ASHRAE Technology Awards and the Dan Mills Technology Award.



His theme for the 2020-21 ASHRAE Society Year is "The ASHRAE Digital Lighthouse and Industry 4.0."

"Why should we engage in digital transformation? To gain a competitive advantage amongst our peers, position ourselves as the go-to resource for clients, improve margins, provide greater value, and attract and retain a digitally skilled workforce."

In addition to his time served on the Board of Directors, Gulledge has served as chair of the Members Council and the President-Elect Advisory Committee, chair of the Finance Committee, chair of the Standards Membership Ad Hoc Committee, chair of the Development Committee for Fundraising, and as an ASHRAE Distinguished Lecturer. He has held ASHRAE Society-level leadership roles on many standing committees, technical committees and presidential ad hoc committees. Gulledge's theme focuses on reimagining the building industry and ASHRAE's place in it by integrating not only industry segments, but also technology.

"Digital transformation is not simply associated with adopting new technical solutions. Knowledge needs to be captured and linked in such a way that ALL relevant stakeholders' benefit. Doing so requires understanding of how to collect, store, and analyze data; so that it is insightful and actionable."

In addition to his contributions to ASHRAE, Gulledge's career in HVAC spans over 36 years. He entered the industry as an engineer-in-training with Parsons Brinckerhoff Quade & Douglas, working on transit system infrastructure, vehicular tunnels and moveable swing-span bridges. Over his career, he has served the built world in the roles of a consulting engineer, municipal owner and design-build contractor. Gulledge is currently a Senior Mechanical Engineer with Environmental Air Systems, LLC. He is registered as a professional engineer in the states of North Carolina, Georgia, Kentucky, South Carolina, Alabama and Virginia.

Gulledge's comprehensive design, construction and operational portfolio covers a variety of market sectors; including transportation, commercial, educational, institutional, lodging, sports, mission critical, life sciences, healthcare, pharmaceutical, manufacturing, industrial, archival, historical, and hospitality.

Gulledge is a 1983 graduate of North Carolina State University with a Bachelor of Science in Mechanical Engineering.



## 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](mailto: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.



[www.somersep.com](http://www.somersep.com)

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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 30 – Chapter Meeting**

- ASHRAE President - Charles 'Chuck' Gullede III - Presidential Address: The ASHRAE Digital Lighthouse and Industry 4.0

### **Tuesday January 19 – 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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contact:

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or

#### **Treasurer**

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## **Request for London Industry Volunteers – Student Spotlight Opportunity to Learn/Ask about Our Industry**

London ASHRAE is requesting volunteers to present at a spotlight event for HVAC/R careers. Student Activities Chair, Glenn Kernaghan, will be setting up a January virtual event with Western University for industry professionals to provide a short (5-10 minute) presentation about an area specific to their work in the industry and then answer questions in break out rooms with students. We are looking for representatives from sales, consulting, manufacturing, and refrigeration. Great opportunity to get in front of and create interest from future potential job candidates and show them what you do!

If this is something you would be interesting in volunteering a window of your time for, please reach out to Glenn to confirm your interest.

Glenn Kernaghan [glenn.k@callidus.ca](mailto:glenn.k@callidus.ca)

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## **ASHRAE Announces Move to New Net-Zero Energy Global Headquarters In Metro Atlanta**

**ATLANTA (November 5, 2020)** – ASHRAE, a *global society* advancing human well-being through sustainable *technology* for the built environment, announced a move to its new global headquarters, located at 180 Technology Parkway, Peachtree Corners, Ga. The Society began renovations in January 2020 on an existing 66,700 ft<sup>2</sup> building, originally built in 1978, on 11 acres of land. Located 10 miles north of its previous headquarters building, ASHRAE joins other innovation and sustainability-focused organizations based in the popular Technology Parkway corridor. Images are available for immediate download at [ashrae.org/newhq](http://ashrae.org/newhq).

A short video on the new global headquarters can be viewed on [ASHRAE's YouTube channel](#). Images are available for immediate download at [ashrae.org/newhq](http://ashrae.org/newhq). "ASHRAE's goal for this project was to renovate a three-story 1970's era, cheap energy period building into a high-performing net-zero-ready facility in a cost-effective way that can be replicated in the built environment industry," said Technical Advisory Subcommittee Chair Tim McGinn, P.E.

The photovoltaic (PV) system design is currently in progress. The building will be on its way to fully net-zero energy by March 2021 upon the completion of the PV system installation.

Focusing on the Society's 2020-21 theme, "***The ASHRAE Digital Lighthouse and Industry 4.0***", the headquarters building incorporates several digitally connected solutions such as remote monitoring and analysis of building performance, with online dashboarding for transparency and advanced Building Automation System (BAS) integration with other systems, such as ASHRAE's meeting reservations systems. Other solutions include a digital twin and Building Information Model (BIM), innovative mechanical systems visible through open ceiling around radiant panel clouds and advanced conferencing systems designed to serve as a "digital lighthouse" teaching resource.



## **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:**

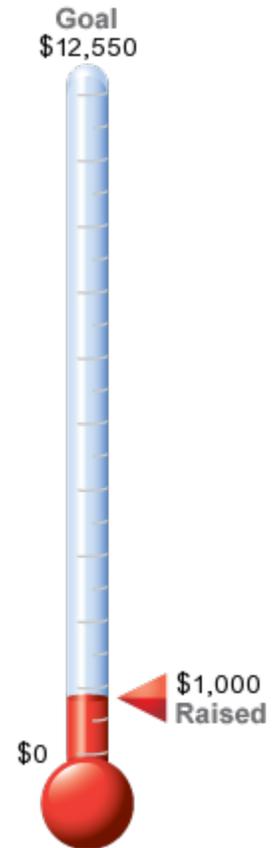
<u>Contribution Levels</u>	<u>Individual</u>	<u>Company</u>
Honor Roll	\$150 +	\$500 +
Major Donor (Bronze)	\$250 - \$999	\$500 - \$999
Major Donor (Silver)	\$1000 - \$2,499	\$1000 - \$2,499

If any questions, please contact:

**Kate Mayberry**

**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>