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ASHRAE LONDON CANADA CHAPTER #116

TOPIC:

**Sustainability & Energy Efficiency - Bridging the
Gap in Performance From Concept Through
Operations**

Presenter:

**Om Taneja, Ph.D., P.E., Fellow ASHRAE
ASHRAE Distinguished Lecturer**

January 19, 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 Windsor in joint online meeting with ASHRAE London



**ASHRAE London would like to wish all our
members and their families a Merry
Christmas and Happy Holidays!**

It has been an unforgettable year to say the least - we
hope everyone can take this holiday time and spend it with
their family. Have a happy and safe Holiday season and we
look forward to reconnecting in 2021!

December Topic

Sustainability & Energy Efficiency - Bridging the Gap In Performance From Concept Through Operations

It is not unusual to experience many building cases that the actual energy performance in operation phase is deviated largely from the expected performance in the building design phase. In addition to the various codes, practices and guidelines of energy efficient design are available in the industry to govern the various systems design to a certain energy efficiency standard, the building owners and operators recognize that it is equally important to have a set of good practices on how to operate and maintain the building facilities and measure its performance. Hence, it can help to identify the factors attributing to the gaps of performance and enable the building practitioners to take corresponding corrective actions to fill up the gaps.

December Presenter

Om Taneja, Ph.D., P.E., Fellow ASHRAE ASHRAE Distinguished Lecturer

Dr. Taneja holds a Bachelor's degree in Mechanical Engineering from Indian Institute of Technology, New Delhi, Master's degree in Control systems and a Ph.D. degree in Systems Sciences and Operations Research from New York University. He is a licensed professional engineer and active in power generation and distribution, sustainability, energy-efficiency, innovative technologies, operations, and maintenance issues. Om has been active in discussing facilities, sustainability, and energy-related issues at various professional organizations. He has been an Associate Professor at Kean University of New Jersey, Dean of HVAC/Facilities Management Divisions at Technical Career Institute and periodically takes adjunct teaching assignments in Building Systems. He organized All Day Seminars every year on important sustainability, commissioning, benchmarking & O&M issues in greater New York City area. Om has presented more than 40 technical and management papers at different national and international conferences. 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.



Dr. Taneja has more than 35 years of diversified experience in the area of design, construction, operations and maintenance of large facilities, including the United Nations Headquarters, General Electric Headquarters, US General Services Administration and a 17 years in the Infrastructure Development for hospitals, court houses and varied commercial, industrial and historical facilities. He was the Chief of Planning, Design & Overseas Properties, at the United Nations Headquarters, New York for 12 years, where he had the responsibility for coordination and management of facilities, security and technology implementation for the United Nations Headquarters and Overseas Properties worldwide.

Dr. Taneja was a student Member of ASHRAE starting in 1970 and has been a full time member of ASHRAE since 1976. He was nominated ASHRAE fellow in 2015. He has served on different Chapter and Technical Committees and has been a Member of the Board of Governors of ASHRAE NY Chapter since the year 2002. He was the Program and Student Committee Chairman and President of ASHRAE NY Chapter during 2008-2009. Thereafter, he was the "Regional Vice Chair" for Student Activities for ASHRAE Region 1. He served as a "Distinguished Lecturer" for ASHRAE for FY 2012-2014 and 2016-18 conducting seminars on technology adoption, smart buildings, transformation of facilities management, operations, maintenance and staff development. In addition to being a Board Member of ASHRAE NY, Mr. Taneja was also a Board Member of the USGBC, New York Chapter which has lot of synergies in partnering with ASHRAE towards Energy Efficiency & Sustainability issues. He has been an active member of ASME, IFMA and USGBC.



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

Tuesday January 19, 2021 – Chapter Meeting

- Sustainability & Energy Efficiency - Bridging the Gap in Performance From Concept Through Operations

Monday, February 22 – Chapter Meeting

- Hosted by ASHRAE London

***** 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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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. Tentative date of Wednesday February 3rd, 2021 5:00-6:30pm.

Glenn Kernaghan glenn.k@callidus.ca

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 ft² 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.

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. "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:

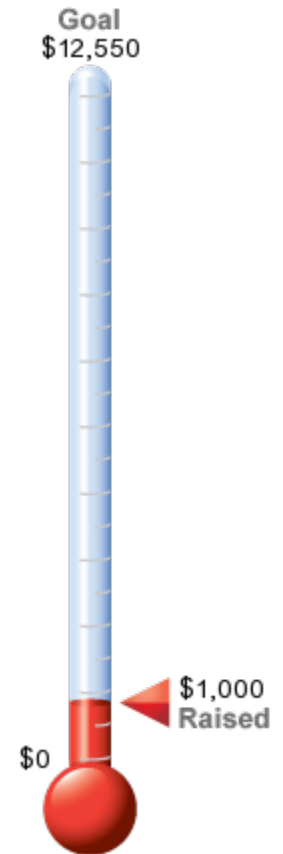
<u>Contribution Levels</u>	<u>Individual</u>	<u>Company</u>
Honor Roll	\$150 +	\$500 +
Major Donor (Bronze)	\$250 - \$999	\$500 - \$999
Major Donor (Silver)	\$1000 - \$2,499	\$1000 - \$2,499

If any questions, please contact:

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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>