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ASHRAE LONDON CANADA CHAPTER #116

TOPIC:

**An Introduction to Thermal Comfort:
The Human Factors of Sensation, Perceptions and
Responses**

Presenter:

Robert Bean, R.E.T., P.L.(Eng.)

May 18th, 2021

**5:00-6:30 PM – Hosted virtually on
'GoToMeeting'**

Cost = \$30.00*

Registration link: <https://forms.gle/qnW2Ezkt7gaF7Htf6>

***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

May Topic

The Human Factors of Sensation, Perceptions and Responses

Next to sound, thermal discomfort is the second leading indicator of poor indoor environmental quality. In part this is due to industry using air temperature as the exclusive proxy for comfort and 72F (22C) as the metric for compliance. Participation in this course will equip members with a complete understanding of how people actually sense their thermal environments, the subjectivity of perceptions and the negative consequences of resulting responses. This is the course architectural, engineering, interior design, builder and trade school curriculums and manufacturers should teach - but don't.

May Presenter

Robert Bean, R.E.T., P.L.(Eng.)

Robert Bean is director of www.healthyheating.com, and founder of Indoor Climate Consultants Inc. He is a retired engineering technology professional (ASET and APEGA) who specialized in the design of indoor environments and high-performance building systems. Bean is a third term ASHRAE Distinguished Lecturer, recipient of the Lou Flagg Award, Distinguished Service Award and instructor for the ASHRAE Learning Institute. He has authored many papers, articles and course curriculums and serves on numerous technical committees related to indoor environmental quality, building, and energy systems. His motto is, "Design for people, good buildings follow."



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 May 18th – Chapter Meeting

- Hosted by ASHRAE London

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

<http://LondonCanada.AshraeChapters.org>

ASHRAE LONDON CANADA

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.

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



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

FAD / GLOSSARY



One Page Guidance Documents

VIEW GUIDANCE

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Save the Date – London ASHRAE Golf Tournament – Monday September 27th

With optimism and hope, the 2021 golf tournament has been reserved for Monday September 27th. We have really missed hosting the golf tournament in last year and we are hoping that by the end of the summer it will be within the regulations to catch up with one another for a day of ASHRAE celebration. We have taken feedback from previous years and have partnered with FireRock to host this year's tournament. So, get your groups organized and keep your fingers crossed for the 2021 golf tournament! Stay tuned for more updates.



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. Questions specific to Epidemic Task Force guidance can be emailed to covid-19@ashrae.org.



HRAI hosts First-ever Virtual Day on the Hill with Federal Members of Parliament

On Tuesday, May 4th, HRAI members “stormed the hill” in Ottawa – only they did it from the comfort and safety of their own homes and offices across the country via HRAI’s first-ever “Virtual Day on the Hill.”

For the past five years, HRAI has at least once a year engaged with elected officials in Ottawa, bringing members in to meet with Members of Parliament (MPs), Ministers and senior bureaucrats. These meetings allow HRAI to raise awareness among elected officials about the industry and its top priorities.

Usually these meetings are held in person and the main logistical issues involve trudging from one meeting to the next across various buildings comprising Parliament Hill, navigating tight schedules, building security and the elements. This year, the logistical concerns were mostly limited to finding the right meeting passwords and ensuring that the “mute” button was off when needed.

The virtual format allowed HRAI to broaden the involvement of members. In all, 45 member representatives participated in 28 meetings with MPs from across the country. In some cases where MPs were not available on the 4th, requests were made for other dates and times over the next week.

HRAI was aided in this effort by members of ASHRAE from all regions of the country – 15 representative in all. The ASHRAE representatives brought their own colour to all of the discussions and nicely augmented the messaging from HRAI.

The three main discussion topics that were highlighted in the meetings were:

1. The important role of the HVACR industry in addressing climate change and the need for active policy consultation with the sector;
2. The support in addressing workforce development needs generally and in particular arising out of the shift to low-carbon technologies; and
3. The contributions the industry can make to improving the Indoor Air Quality (IAQ) of homes and buildings across the country.

These messages were captured in a three-page summary document that was shared with MPs.

HRAI has already received numerous requests for follow-up information and meetings to pursue these issues further.

While the government relations work of the association is an everyday focus for the HRAI R team, creating a platform for members to speak directly to their elected officials amplifies and adds depth to the messaging.

For more information, contact Martin Luymes at 905-602-4700 ext. 235 or email mluymes@hrai.ca.

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 Individual Donors:

Kathleen Mayberry, Jeff Armstrong, Ibrahim Semhat, Rajarajan Deenadayalan, Thomas Pollard, Richard Hammond, Andrew Crowley, Adrian Bruijns, Christopher Zettler, Jordan Foster, Derek Vakaras, John Freeman, Hilton Breytenbach

Current Corporate Donors:

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<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 kmayberry@sbmltd.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>