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ASHRAE LONDON CANADA CHAPTER #116

TOPIC

Health as a Building Performance Metric

SPEAKER

Stephanie Taylor

ASHRAE Distinguished Lecturer
CEO - Taylor Healthcare Consulting
Stowe, VT

MONDAY JAN 28/2019

5:15PM – SOCIAL

6:15PM – DINNER

7:15PM – PRESENTATION

MEETING LOCATION

BMO CENTRE

295 Rectory St, London

PLEASE USE PALPAL – ADVANCED PAYMENT BEFORE MEETING

<http://londoncanada.ashraechapters.org/PayPalPage.html>

\$60 for Members

STUDENT NIGHT – STUDENTS FREE for Jan Meeting

Consider Sponsoring a Student Meal

USE PAYPAL on the Chapter Web Site

Please register on the web site if you will be attending.



Chapter President's Message

Happy New Year everyone! Thank you for helping us finish 2018 strong and we look forward to a prosperous year for everyone in HVAC community in 2019.

Thanks specifically to our November DL Chris Mathis for putting on a very informative and thought provoking session on Why Buildings Matter and the role of 90.1. It was a great reminder of how much we can make an impact protecting our environment in the HVAC industry and how 90.1 can help you get there.

It was nice to see those that could attend the December social at the newly minted Palasad where we got to share some wings, pizza, laughs and some games of pool. Come join us next year if you couldn't make it out in 2018.

For January we have Dr. Taylor here to speak to us about the building performance metrics associated with IAQ for optimum health of the occupants. Please be sure to register and join us at the BMO center next Monday January 28th as it will be a meeting to remember! It is student night as well so for those that would be willing to sponsor some students meals we would greatly appreciate it and you will be recognized with accolades at the beginning of our meeting.

Thanks for your continued support and look forward to seeing you all on Monday.

John Freeman
ASHRAE London Canada Chapter
Chapter President 2018/2019

ASHRAE Membership

On Behalf of ASHRAE London chapter, we welcome following members who joined recently.

Mr Octavian Strashun

Mr Bradley Tully

Thanks for your continuous support to London chapter.

If you know a colleague that may benefit from an ASHRAE membership, please let me know.

Rajan Deenath
ASHRAE London Canada Chapter
Chapter Membership Promotion Chair 2018/2019

Student Sponsors

Consider Sponsoring a Student Meal - just \$50
USE PAYPAL on the Chapter Web Site

TOPIC**Health as a Building Performance Metric**

Our health is our number one resource, yet current building codes tend to focus on regulating energy consumption and averting catastrophic building events such as fires. This presentation shows research and science supporting the relationship between building design and occupant health, not just comfort, providing sound evidence for the importance of indoor air quality in residential, academic and commercial buildings. IAQ which supports optimal health and productivity for all people decreases job absenteeism, improves student learning and lightens the financial and human burden of chronic illness and acute infectious disease.

Active participation from the audience will be requested throughout the presentation as Dr. Taylor communicates medical and scientific information in a clear and sometimes humorous fashion, leaving the audience excited about the value of building design and maintenance in preserving health. They will also have clear take-away strategies to manage their own surroundings to improve their health and productivity.

SPEAKER**Stephanie Taylor, M.D., M. Arch**

CEO

Taylor Healthcare Consulting

Stowe, VT



Dr. Stephanie Taylor received her MD from Harvard Medical School, Boston, Massachusetts in 1984. For the next several decades, she practiced clinical medicine and did academic research in cellular growth mechanisms.

During this time, she became increasingly concerned about patients who were harmed by new infection during their in-patient treatment. Determined to gain a better understanding of the impact of the built environment on patient well-being, she returned to school and obtained her Master's Degree in Architecture and Engineering from Norwich University in Northfield, Vermont. After working for several years in a healthcare design architecture firm, she founded Taylor Healthcare Consulting, Inc., in order to focus on designing, building and maintaining hospitals to better support patient healing. She quickly learned that many of the building and indoor air characteristics that affect people in hospitals also influenced the health of all people in buildings.

Dr. Taylor is currently working at the intersection of architectural design, indoor air management, the microbiome of the built environment and occupant health. She finds the impact of buildings on our health startling! Managing the built environment and indoor air with the goal of decreasing diseases from acute infections to chronic inflammation to cognitive impairment, is a very underutilized yet powerful approach to disease prevention. She finds that her physician insights and biological research helps her understand the science behind the interaction of buildings, human physiology and energy consumption.

Dr. Taylor has designed hospitals globally, from the United States to Papua New Guinea to Vietnam. In addition to her Taylor Healthcare Consulting work, she is a member of the Harvard Medical School Incite Health Fellowship. This program brings together multidisciplinary teams from across the US, trains them in design thinking and entrepreneurship, and gives them the tools and resources to guide the future of medical care.

To communicate her work and understanding about the fascinating convergence of human health, microbiology and architecture, Dr. Taylor writes monthly columns and bi-annual feature articles for Engineered Systems Magazine and publishes in other healthcare journals. She is an active member of ASHRAE, ASHE and national and international medical associations. When not working elsewhere, Dr. Taylor lives in beautiful Stowe, Vermont with her husband and eight dogs. One of her favorite activities is skydiving, which she finds is great practice for staying outside of her comfort zone!

Chapter Upcoming Meetings

Mon Feb 25/2019 - ASHRAE Legacy Night

Darryl K. Boyce, P.Eng., ASHRAE Society President-Elect

Mon Mar 25/2019 - Transforming an Existing Building
into a High Performing Facility

Jim Newman, ASHRAE Distinguished Lecturer

Thur April 18/2019 – webcast: THE FUTURE OF REFRIGERANTS
UNITARY AND VRF SYSTEMS

Mon June 3/2019 – Annual Golf Tournament

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

<http://LondonCanada.AshraeChapters.org>

ASHRAE RESEARCH <http://www.ashrae.org/contribute>

Local London ASHRAE Members have already contributed more than \$5,000 to ASHRAE Research for the 2018-2019 year. Please consider a contribution. All funds stay in Canada to improve the HVAC&R environment thru research.

Since 1960, ASHRAE has sponsored research studies at universities and research firms. The results of these studies have been used to prepare chapters in the ASHRAE Handbook series; as foundational material in special publications; in the formulation of standards; to train university students as they prepare for service in the HVAC&R industry; and to spread the knowledge gained through presentation at Society Conferences and publication in ASHRAE Transactions or conference proceedings.

ASHRAE currently has 59 active research projects.

The total value of these projects is \$10.6 million.

Average cost: \$159,696

Since 1959, ASHRAE has sponsored 907 projects with a combined value of \$76 million.

Phil Cook

ASHRAE London Canada

Research Promotion Chair 2018/2019

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January Chapter Meeting Table Top Display



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Are you a sales rep? Does your company have information that you wish to display and present at a ASHRAE London chapter meeting? The chapter can arrange for a table top display at a chapter meeting. Just \$200 per meeting and includes one dinner.

Contact Matt Moore
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matthewjmoore36@gmail.com

Professional Development

Need hours for your professional development requirements?

Professional Engineers Ontario requires members to have yearly professional development training recorded through the Practice Evaluation and Knowledge (PEAK) program. Other groups also require continuing education.

Attend a chapter meeting to claim 1 hour towards your training.



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ASHRAE HVAC COURSES

<https://www.ashrae.org/professional-development>

Learning Portal, ASHRAE Certification, Job Board, Educator Resources

NEARBY TRAINING

HVAC Design: Level I - ESSENTIALS

MAY 20-22, 2019 – TORONTO, ONT

Essentials provides intensive, practical training ideal for recent technical or engineering school graduates, engineers new to the HVAC field, those who need a refresher in new technologies, and facility managers, sales representatives and others who want to gain a better understanding of HVAC fundamentals, equipment and systems.

HVAC Design: Level II- APPLICATIONS

MAY 23-24, 2019 – TORONTO, ONT

Applications provides instruction in HVAC system design for experienced HVAC engineers and those who have completed the HVAC Design: Level I – Essentials. The training covers the technical aspects of design and allows participants an opportunity to expand their exposure to HVAC systems applications to increase energy savings and improve indoor environmental quality.

Online Courses

Also see: www.ashrae.org/onlinecourses

Save Over 35% Using Appendix G of ASHRAE Standard 90.1-2016

When: February 12, 2019, 1:00 pm to 4:00 pm, EDT

Cost: \$284 USD (\$219 USD ASHRAE Member)

Instructors: McHenry Wallace, P.E., Member ASHRAE, LEED® AP and Joseph Deringer, AIA, Member ASHRAE, LEED® AP

Humidity Control I: Design Tips and Traps

When: February 26, 2019, 1:00 pm to 4:00 pm, EDT

Cost: \$284 USD (\$219 USD ASHRAE Member)

Instructor: Lew Harriman, Fellow ASHRAE



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JOB POSTINGS

See web site for more information: <http://londoncanada.ashraechapters.org>



ASHRAE NEWS

ASHRAE TORONTO - 2019 CAREER FAIR

Where: Seneca College, Atrium, 1750 Finch Ave E, North York, ON M2J 2X5

When: February 7, 2019 9:00 AM - 1:30 PM

Don't miss this chance to showcase your company and current job postings at the 8th Annual ASHRAE Toronto Career Fair. Meet hundreds of qualified candidates to help grow your organization. Reserve your Table Top Exhibit today!

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Updating Equipment Load Factors for the ASHRAE Handbook

Plug loads are one of the main contributors to the building's overall energy consumption in most office buildings, so they need to be considered in load calculations, according to an article in Science and Technology for the Built Environment. Weekday and weekend power consumption profiles are developed for different office equipment in the article, "Equipment Power Consumption And Load Factor Profiles For Buildings' Energy Simulation (ASHRAE 1742-RP)," written by Omer Sarfraz, Student Member ASHRAE, and Christian Bach, Ph.D., Associate Member/Student Branch Advisor, an assistant professor at Oklahoma State University.

ASHRAE to Begin Renovation to Create New Net-Zero World HQ Building

ASHRAE announced board approval of a \$15.7 million budget to begin a renovation of its new world headquarters building in metro Atlanta, Ga., with the intent of being designed for net-zero energy efficiency.

The building located at 180 Technology Parkway in Peachtree Corners, is approximately 10 miles north of ASHRAE's current location. The 1970s-era building was selected from existing building stock with a goal of retrofitting it into a modern, high-performance building.

"ASHRAE is excited to demonstrate innovative leadership in our industry by transforming an existing commercial building into a state-of-the-art built environment," said 2018-2019 ASHRAE President Sheila J. Hayter. "We want our new world headquarters to be an example of all that we stand for as a society and all that our industry has to offer. This project will serve as an exemplary model for other organizations looking to incorporate similar approaches and designs into new and existing facilities across the globe."

The renovated world headquarters building will provide a technologically updated, cutting edge work space for ASHRAE members, staff and the public.

"We believe that renovating existing buildings represents the single best opportunity for making a significant impact on sustainability, resiliency and energy efficiency," Hayter explained. "Reuse of existing buildings and the embodied carbon in those structures is the ultimate form of sustainability. Our challenge is to undertake a retrofit process that will address the uniqueness of this building and to do so cost effectively. This is a significant milestone for our society."

For updates on ASHRAE's new world headquarters building renovations project, visit the **ASHRAE HQ FAQ page**.

ASHRAE Announces Nominees for 2019–20 Slate of Officers and Directors



ASHRAE announced its nominees for the 2019–20 slate of officers and directors during its 2019 ASHRAE Winter Conference in Atlanta, Ga.

Nominations for officers and directors were made by the ASHRAE Nominating Committee from a list recommended by individual members and from Chapters Regional Conferences.

The 2019–2020 nominees are as follows:

President-Elect: Chuck Gullede

Treasurer: Mick Schwedler

Vice Presidents: Bill McQuade, Bill Dean, Dennis Knight and Farooq Mehboob

ASHRAE members will vote on the nominees via electronic ballot in May. Darryl Boyce will serve as ASHRAE President for the 2019–20 Society year.

ASHRAE Wraps Up Successful 2019 Winter Conference, AHR Expo

Increased building activity, operational demands, changes in codes and design and new energy efficiency strategies were just some of the topic discussed among buildings professionals at the 2019 ASHRAE Winter Conference and AHR Expo.

The 2019 ASHRAE Winter Conference took place Jan. 12-16 at the Omni Hotel Atlanta at CNN Center and the Georgia World Congress Center in Atlanta, Ga, ASHRAE's headquarter city. More than 2,700 individuals registered for this year's Winter Conference.

The AHR Expo attracted HVACR professionals from around the globe and provided a forum for manufacturers to showcase the latest products and services. The Expo drew more than 65,000 attendees, with 1,809 exhibitors total, 496 international exhibitors from 35 countries and 107 first time exhibitors.

The Winter Conference technical program featured more than 300 presentations, with interest surrounding this year's new track, Renewable and Natural Systems, where session topics included exploring energy technologies, renewable energy sources and the future of the smart grid.

Keeping Up With The ASHRAE President

Hayter and other senior ASHRAE officers visited Ottawa, Ontario, for two days of stakeholder meetings including Efficiency Canada, Parliamentary Information and Research Service, Treasury Board of Canada Secretariat, Health Canada, Engineers Canada, House of Commons Committee on Natural Resources and Natural Resources Canada. Treasurer Charles Gullede, III., Hayter, President-Elect Darryl K. Boyce and Jeff Clarke, Region II Director and Regional Chair pose for a photo in of the Parliament Building before giving the ASHRAE testimony to the House of Commons Committee on Natural Resources addressing, "Economic Opportunities for Energy Efficiency in Canada."

While in Ottawa, Hayter visited the Ottawa Valley Chapter and Carleton University Student Branch. Hayter boasted the chapter's strength and how it is nurturing a high level of interest in the buildings industry with the students at Carleton.