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# ASHRAE LONDON CANADA CHAPTER #116

**TOPIC**

**Gender in Engineering Today**

**SPEAKER**

**Jennifer LeachPE, LEED AP  
P-K Regional Sales Manager**

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**Meeting – MONDAY MARCH 26/2018**

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>

\$50 for Preregistered

\$10 for Students

\$60 at the door

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

March is Research Promotion Night



## **Chapter President's Message**

Half of the Sky

The title of this letter is a reference to the oft-repeated quote by Mau Tse Tung. In designing the architecture of the Chinese revolution and the subsequent reformation of China, Mau was clever enough to acknowledge and certify the role that half of the population of the country he ruled would play. His proclamation was one that declared that women held up half of the sky. That women, in fact were capable, responsible and partnered inextricably equally with men in so doing. This seemed obvious.

In our still patriarchal society, we easily lose sight of this all too important facet of existence. Recently, we have seen by a ground swell of social movement such as the #metoo and #timesup that are undeniable in their efforts and successes in bringing to attention the inequity in society today. The domain of engineering is not immune to this phenomenon. This is no secret.

In an effort to provide an opportunity for learning and insight into gender and engineering, we have invited Jennifer Leach a founder and current chair of the Women in ASHRAE Ad Hoc committee. Members of ASHRAE owe it to themselves to attend this meeting and to peer into the situation from the correct perspective. This is an opportunity to receive direction and insight in how we in our profession and daily lives might work toward the resolution of our cutting ourselves off from half of the sky. Please join us for this important time.

Sincerely,

**Phil Cook**

**ASHRAE London Canada Chapter - President 2017/2018**

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ASHRAE is excited to announce that a **newly redesigned ashrae.org website** is now available. Website development efforts have focused on simplifying content and streamlining navigation. A few key features we think you'll be excited about: device-responsive layout for smart phones and tables; mega-menus to offer more information at a quick glance; enhanced Amazon Elastic search engine provides thousands of relevant results from ashrae.org, ASHRAE's Bookstore, ASHRAE's Technology Portal; opportunity for locally-targeted content based on a website visitor's location;

**Be sure to check out the new website.**

Thank you for your support of ASHRAE.

## **Student Sponsors**

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

Current contributors: John Azzopardi (\$100), Tom Pollard (\$100)  
Scott Edmunds (\$50), Odell Associates (\$50), Rep-Can (\$50)



**Speaker**

**Jennifer Leach PE, LEED AP  
P-K Regional Sales Manager**

Ms. Leach is a Registered Professional Mechanical Engineer with a degree in Architectural Engineering, specializing in HVAC. While working as a consulting engineer, Jennifer ran her own firm for 7 years, responsible for all aspects for design and project management. Her design experience includes healthcare, labs, pharmaceutical and higher education. Ms. Leach honed her skills in water-side system design as a manufacturer's representative selling boilers, pumps and cooling towers. Currently serving at a Regional Sales Manager for P-K, Jennifer is responsible for coordinating the efforts of fifteen manufacturer's representatives. Jennifer is an active member of both the Baltimore and National Capital Chapters of ASHRAE while also serving on several notable technical and standing committees at the Society level, including chair of the Women in ASHRAE, AdHoc Committee.

**Topic**

**Gender in Engineering Today**

**2018 ASHRAE Annual Conference  
Houston, TX | June 23–27, 2018**

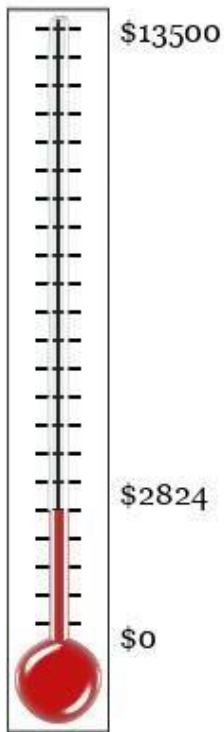
The 2018 ASHRAE Annual Conference will be held in Houston, June 23–27, 2018. The Technical Program along with Committee meetings, Registration, Bookstore, and Speakers Lounge will be held at the Hilton Americas hotel and the George R. Brown Convention Center.

Conference Tracks include:

- HVAC&R Systems and Equipment
- Fundamentals and Applications
- District Energy and Cogeneration Plants
- HVAC & Resiliency: Safeguarding our World
- Residential – Modern Building in Hot and Humid Climates
- Professional Skills
- Research Summit
- HVAC&R Control Freaks
- HVAC&R Analytics

See

<https://www.ashrae.org/conferences/annual-conference>



## **ASHRAE RESEARCH**

The chapter goal for 2017-2018 has been set at **\$13,500.00**

Current contributions = **\$2,824.00** (21% of goal)

Current Corporate Contributors

**Emcad Consulting Engineers Inc (\$250)**

**Mechanical Contractors Assoc-London (\$250)**

**Drennan Refrigeration Inc (\$200)**

**Somers Environmental Products Inc (\$250)**

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Current Personal Contributors (\$100 each)

**Philip Cook, Khalid El-Kadri, Andrew D Crowley, Jordan Foster, Tom Pollard, Ibrahim M Semhat, Benjamin Oliver, James Scudamore, Karl W Gilroy, Kenneth Robinson, John Freeman, Jerald Lavender**

Since 1919, ASHRAE has supported research to improve the quality of life. ASHRAE Research impacts the industry by improving the way HVAC&R systems work, how they are applied and allow development of technical information to create standards and guidelines, which serve as basis for design practices around the world.

The society funds thousands of projects in different sectors such as Health, institutional, work place and homes. ASHRAE Research have completed or in the process of completing over a 100 projects in 2017 with a total cost of over 12 million dollars.

I would like to take this opportunity to thank the continuous support of our individual and corporate donors in 2016/2017 season. I would like to also thank those who already contributed or committed to contribute to our 2017/2018 campaign. Our goal for this year's campaign has been increased to \$13,500. This ambitious goal could not be reached except with your continuous generous support. If you have any questions or would like to contribute to our campaign this year, please do not hesitate to contact me by email or phone.

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

Khalid El-Kadri

Resource Promotion Chair 2017/2018

[Khalid.elkadri@optimaldeltat.com](mailto:Khalid.elkadri@optimaldeltat.com)

(519) 871-2920

**Khalid El-Kadri**

**ASHRAE London Canada Chapter - Research Promotion Chair 2017/2018**

## Chapter Upcoming Meetings

Thu April 19, 2018 – ASHRAE Society Webcast:

**MYTHS ABOUT ENERGY EFFICIENCY**

12:00noon Lunch 1:00-4:00pm webcast BMO Centre

Monday June 4, 2018 – ASHRAE London Chapter Golf Tournament

Greenhills Golf Club, 4838 Colonel Talbot Rd, London

\$700/group, \$125 hole sponsor, \$60 dinner only

\*\*\* Registration & Paypal links now on \*\*\*

<http://LondonCanada.AshraeChapters.org>

### ASHRAE Standards Notice

ANSI/ASHRAE Standard 134-2005 (RA 2014), *Graphic Symbols for Heating, Ventilating, Air-Conditioning, and Refrigerating Systems*, has been withdrawn.

Please reference **2017 ASHRAE Handbook—Fundamentals, Chapter 38,**

*"Abbreviations and Symbols,"* for the information previously found in

ANSI/ASHRAE Standard 134.

Web Link: <https://www.ashrae.org/resources--publications/handbook/2017-ashrae-handbook-fundamentals>

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## **Chapter Meeting Table Top Displays**

Are you a sales rep? Does your company have information that you wish to display and present at a 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  
226-808-4678  
[matthewjmoore36@gmail.com](mailto: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.

## **ASHRAE Learning Institute Upcoming OnLine Courses**

<https://www.ashrae.org/education-certification/instructor-led-online-courses>

see the web page for the latest information

## **ASHARE HVAC Design & Operation Training**

ASHRAE Learning Institute offers three intensive HVAC Design & Operation training sessions that fills the need to improve overall building performance. Expand your knowledge and understanding of the fundamentals and technical aspects to design, maintain and operate new and existing HVAC systems. ASHRAE HVAC Design & Operation Training incorporates the latest information on Standards 55, 62.1, 90.1, 100 and 189.1

May 14-18, 2018 – Toronto, Canada

<https://www.ashrae.org/education-certification/hvac-design-and-operation-training>



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**ASHRAE TRAINING AT CMPX 2018**

**Toronto**

**Complying with ASHRAE Standard 90.1-2013**

Wednesday, March 21, 2018 9:00am – 12:00pm

Cost: \$184 USD / \$234 CAD (\$139 USD / \$177 CAD ASHRAE Member)

Course Summary: The 2013 version of ASHRAE Standard 90.1 is widely used by many state and government entities. Learn the background and development of ASHRAE Standard 90.1, its requirements and compliance paths, and how to understand and apply the requirements. Key updates for each of the major building systems will be discussed. This includes the HVAC system, lighting system, building envelope, service water heating, and power. You will learn key mandatory and prescriptive requirements applicable to each system, as well as whole-building compliance options. Case studies and in-class exercises are included as appendices to the classroom presentation.

**Using Appendix G of ASHRAE Standard 90.1-2016**

Thursday, March 22, 2018 9:00am – 12:00pm

Cost: \$184 USD / \$234 CAD (\$139 USD / \$177 CAD ASHRAE Member)

Course Summary: Learn how to use the innovative new performance rating method in Appendix G of ASHRAE Standard 90.1-2016. Learn to apply the new rules and procedures via whole-building energy simulations to demonstrate that a building has much better energy performance than a building that just meets the requirements of ASHRAE Standard 90.1-2016. See how Appendix G-2016 can be used to show compliance with ASHRAE Standard 90.1-2016; this is the first time Appendix G has been usable in this manner

See web site for more information and registration

<https://www.ashrae.org/education-certification/ashrae-courses-at-industry-events/cmpx-2018>



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## **JOB POSTINGS**

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

## **CULLITON**

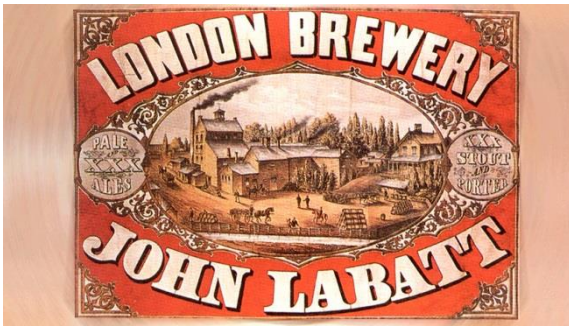
Director of Service, Maintenance and Special Projects  
HVAC Technician

## **Systemair - Changeair**

Regional Sales Manager

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## **YEA EVENT – Friday March 23/2018 at 6:00pm** **LABATT BREWERY TOUR + TASTING**



Serving up the next round of YEA programming, the London YEA chapter has a private tour of the Labatt Brewery downtown London scheduled for Friday March 23rd @ 6:00pm. Come out for a pitcher sized dose of fun touring one of the largest breweries in Canada.

Festivities will include:

- Fully guided tour looking at the brewing, fermenting, ageing, and packaging facilities
- Exclusive behind the scenes look at the power plant + refrigeration room equipment
- Fully CATERED (wings, wraps, finger food) tasting hour after initial tour

The group capacity is 15 people so tour spots are on a first come first serve basis.

Cost is \$25 which will include all of the above and parking at the facility.

The event is open to all current YEA and potential future members.

Please r.s.v.p. by email: [jeff.armstrong@trane.com](mailto:jeff.armstrong@trane.com)

Jeff Armstrong

ASHRAE London Canada Chapter - YEA Chair 2017/2018

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## **New Standard 90.1 Portal Offers Centralized Resources to Users**

A **new online portal** makes it easier for building professionals to access the suite of resources related to ASHRAE Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings. Features of the portal include a multi-publication online tool that enables users to view each publication side by side or separately; access to Standard 90.1 User's Manual, which provides detailed instruction for design of commercial and high-rise residential buildings to ensure standard compliance; and a redlined version of Standard 90.1 showing what changes were made from the previous edition. Users can visit: <http://www.ashrae.org/901portal> to set up login credentials and access the portal. In the portal, users can personalize their experience. Users can preview the software for free through March 15.





## **CONESTOGA COLLEGE**

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(4 year degree)

The Bachelor of Engineering - Building Systems Engineering (BSE) program is the newest professional engineering degree offering in the School of Engineering and Information Technology and is delivered at the honours level. This degree program is unique in Canada as it relates to the complex and ever-changing world of buildings and will allow you to start down the path to pursuing a professional engineering career through licensing with Professional Engineers Ontario. It is geared to motivated individuals looking for challenging careers in building systems, energy and utilities management, building operations and facility management.

Visit the website at:

[www.conestogac.on.ca/fulltime/bachelor-of-engineering-building-systems-engineering](http://www.conestogac.on.ca/fulltime/bachelor-of-engineering-building-systems-engineering)

For more information please contact: [BSE@conestogac.on.ca](mailto:BSE@conestogac.on.ca)

We are accepting first year students for the 2018 fall semester. Conestoga will also probably be hiring a faculty to teach in the program so anyone interested should watch the careers postings for Conestoga.

If any company would like more information on the program, I would be quite happy to come and speak to them. We are also trying to find out the best software to use for students in the program, so would appreciate feedback from users. At present we plan to teach AutoCAD and Revit.

Colin McGugan, M.Eng., P.Eng. <[CMcgugan@conestogac.on.ca](mailto:CMcgugan@conestogac.on.ca)>

Professor, School of Engineering and Information Technology

Conestoga College ITAL, Cambridge, ON

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## **National Engineering Month 2018**

### **MARCH 2018**

National Engineering Month (NEM) is a special occasion in the hearts of engineers across the nation. It's an opportunity for volunteers to bring engineering to life and showcase its relevance to youth and the public through a variety of outreach events and online campaigns. It's also an opportunity for engineers to reconnect with a subject they've devoted their careers to, reigniting their passion for creation, collaboration and problem solving.

NEM 2017's theme "There's a place for you!" expands into 2018 as NEM continues to promote diversity and inclusion in engineering. Showcasing this theme is a priority for every event, with students and professionals demonstrating that anyone can be an engineer with passion and dedication. With the challenges of the 21st century emerging as more urgent and complex than ever before, our profession must diversify to match the rapidly broadening fields, industries and tools. It is our responsibility to prepare today's youth for a world our generation could never have imagined.

The strength of NEM celebrations in Ontario is in no small part thanks to the partnership of organizations working together to bring engineering to life in meaningful ways. Through collaboration, the Ontario Association of Certified Engineering Technicians and Technologists (OACETT), Ontario Society of Professional Engineers (OSPE), Engineers Without Borders Canada (EWB) and PEO have helped the initiative grow.