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# ASHRAE LONDON CANADA CHAPTER #116

## **WEBCAST**

# **THE FUTURE OF REFRIGERANTS UNITARY AND VRF SYSTEMS**

## **PREENTORS**

**Douglas Tucker** Director of Industry and Government Relations at  
Mitsubishi Electric US Cooling & Heating (MEUS)

**Sarah Kim** R&D at Arkema Fluorochemicals

**Stephen Kujak** Director of Next Generation Refrigerant Research  
at Ingersoll Rand

**THU APRIL 18/2019**

11:00am to 1:00pm

## **MEETING LOCATION**

**EH PRICE - LONDON**

**2351 Huron St, London**

PLEASE USE PALPAL – ADVANCED PAYMENT BEFORE MEETING

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

Registration is free for those that can attend.

Chapter President will be deep frying a turkey c/w some fixings for use in sandwiches as a  
thank you to membership

**Please register before Tues April 16 by 1:00pm  
on the web site if you will be attending.**



## **WEBCAST**

# **THE FUTURE OF REFRIGERANTS UNITARY AND VRF SYSTEMS**

The 2019 ASHRAE Webcast will examine the world's most prolific air-conditioning system configurations and how those systems will adapt to worldwide regulatory restrictions and corresponding advancements in refrigerant technology.

Viewers will learn:

- How the refrigerant industry will meet the needs of installed packaged and split system air conditioners, specifically VRF systems
- Future trends in DX air conditioning [including VRF] equipment design, performance and application
- Future of low-GWP refrigerant options for unitary products, if future refrigerant retrofits are possible, and how to recognize the challenges and best practices in working with flammable refrigerants

Opening Remarks: ASHRAE President, Shelia Hayter

Moderator: Jennifer Gladstone

## **Presenters**

Douglas Tucker, Director of Industry and Government Relations at Mitsubishi Electric US Cooling & Heating (MEUS), represents the interests of MEUS with federal, state and local governmental organizations, with industry trade groups and regulatory bodies, and with energy efficiency advocacy groups

Sarah Kim, R&D at Arkema Fluorochemicals, is a scientist working on next generation low GWP refrigerant development. She has been with the Arkema Fluorochemicals R&D department for 4 years as project leader of HVAC&R applications focusing on the evaluation of refrigerant performance, chemistry, and safety aspects

Stephen Kujak, Director of Next Generation Refrigerant Research at Ingersoll Rand and has spent over 25 years being involved in numerous technology and product development projects involving development of new refrigerants, lubricants, compatibility of system materials and environmental sustainability initiatives

## **PDHs**

Participants of the webcast may receive two Professional Development Hours (PDHs) or two Learning Units (LU/HSWs) awarded by American Institute of Architects (AIA) or two Continuing Education (CE) hours from the U.S. Green Building Council (GBCI)

## **SPONSORS**

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## Chapter President's Message

March has officially concluded our dinner meetings so thanks to membership for all your support and interest this year! Thanks also to ASHRAE Distinguished Lecturer Jim Newman for taking the time to visit our chapter and give some common sense ideas to transforming existing buildings into high performance buildings.

Our next meeting is our annual webinar which is taking place Thursday April 18th at 11:00am at EH Price in London. I intend to deep fry a turkey c/w some fixings for use in some turkey sandwiches free of charge as a small token of thanks for all your support. If you're interested in attending, please make sure you register by Tuesday April 16th.

Our golf tournament is fast approaching and I've already had folks reach out to me for details. The date is June 3rd at Forest City National and we intend to have a variety of exciting prizes, laughs and (for me at least) golf balls in the water hazards. Feel free to reach out to me or Alex Somers in the mean time as we prepare and finalize our big day.

Thanks again for a great year!

**John Freeman**  
ASHRAE London Canada Chapter  
Chapter President 2018/2019

## ASHRAE Membership

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

**Rajan Deenath** <[rdeenath@drennan.on.ca](mailto:rdeenath@drennan.on.ca)>  
ASHRAE London Canada Chapter  
Chapter Membership Promotion Chair 2018/2019

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## March Chapter Meeting Summary

The ASHRAE London Chapter had ASHRAE Distinguished Lecturer Jim Newman present Transforming an Existing Building into a High Performing Facility. Jim discussed some items consider when working with others on the design team.

Jim also did a visit and presentation to students at Western University: "I'm an Engineer – Not a Salesperson" How developing sales savvy will help you get, keep and grow in your job as an engineer

See the chapter web site for copies of both presentations  
And also some photos of the meeting

<http://LondonCanada.AshraeChapters.org>

## Professional Development

Need hours for your professional development requirements? Be sure to attend a meeting. 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.

## Chapter Upcoming Meetings

**Mon June 3/2019 – Annual Golf Tournament**  
**Forest City National Golf Club**

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

<http://LondonCanada.AshraeChapters.org>



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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](http://www.ashrae.org/onlinecourses)

### JOB POSTINGS

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



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## **ASHRAE DAY ON THE HILL: February 27th 2019 – Queens Park**

Toronto ON – On a snowy February day a group ASHRAE colleagues and myself were ambassadors for Region 2's provincial "Day On The Hill" event. This was a great opportunity for the each GA chapter representatives to come together in efforts to make some new connections with our respected members of parliament. Our goals were simple, use this day as the first foot forward in building relations that can help ministers of all political parties, see ASHRAE as an organization of HVACR professionals that ministers can feel comfortable and confident in approaching to be a part of the discussions and solutions with any issue that lies in the ASHRAE scope of standards.



A partial breakdown is provided to see some of the individuals we had the opportunity to speak with and what some of the topics of discussion were. Please note that this content is credited to the following individuals (Doug Cochrane, Anne-Marie Bundgard, David Underwood, Kurt Monteiro, Robin Ellis, John Cusato and I)

9:00 AM - Judith Monteith- Farrell - MPP Thunder Bay –Atikokan:  
Discussed Legionella (188), Mold at some Indigenous facilities in the North. We also touched on building EQ & ASHRAE's role promoting STEM for women and K-12.

9:30 AM - Peter Tabuns Critic Energy and Climate Change: Discussed Net Zero, Ashrae.org, Position doc on Climate Change. Also, we discussed realistic target dates to achieve net zero.

10:00 AM - Kaled Rasheed MPP Mississauga E.: Discussed building EQ & Ontario fire code.

11:00 AM - Alex Barbieri, Stephanie DiNucci Min. of Municipal Affairs + Housing: Discussed (SB12, SB10), catching up to 2015 and why no 2015 code for Ontario.

12:00 PM - Corey Michaels, Robin Martin Ministry of Health + LTC: Discussed how the Gov't is trying to reduce 25% of the current regulations. Spoke about Legionella standard 188 and how it can simply replace the current guidelines. Also, we touched on energy audit with standard 100.

3:30 PM – Wayne Gates, Niagara Falls MPP: Discussed making apprenticeship programs more contractors friendly. Also, we touched on the importance of standards in the built environment as well as standards on energy efficiency.

4:00 PM – Teresa Armstrong MPP London: Discussed plan for local meeting at London office as time ran tight.

Overall, this was a great experience to collaborate with other GA members in region 2 in efforts to build relationships with our current government.

A shout out and credit is more than due to John Cusato for his particular hard work in organizing a successful day.

**Alex Somers**

**ASHRAE London Canada Chapter**

**Chapter Grassroots Government Activities Chair 2018/2019**



**ASHRAE NEWS**

**Delivery Information for the 2019 ASHRAE Handbook – HVAC Applications**

The 2019 ASHRAE Handbook – HVAC Applications will ship the first of June, 2019 to full dues paying Members and Associates who elect to receive the printed Handbook. These members should verify the mailing address ASHRAE has on file before May 1, 2019 to ensure the Handbook is delivered to the correct address.

How to verify/update your address:

Log in to [ashrae.org](http://ashrae.org) to verify and if needed, update your address

OR email your correct address directly to Tewana at [tparris@ashrae.org](mailto:tparris@ashrae.org), one of our Customer Contact Specialist who would be happy to assist you.

**PDF Handbook** in Technology Portal

Who gets it: Participants in the Developing Economy Program, members who elected to receive a PDF only version, everyone who also receives the printed copy of the Handbook, or those who purchase the printed Handbook.

An email will be sent in June 2019 as a reminder to sign in to the Technology Portal to access the PDF version of the 2019 ASHRAE Handbook. At that time, simply use your ASHRAE member login information to sign in and download the entire volume or individual chapters. (You will not be able to access the 2019 ASHRAE Handbook before June 2019).

Thank you for being an ASHRAE member and please contact [ashrae@ashrae.org](mailto:ashrae@ashrae.org) with any questions.

**ASHRAE.ORG**

One year ago, ASHRAE launched its newly redesigned website!

Check out some of the new and updated pages available on [ashrae.org](http://ashrae.org):

90.1 Portal

Building EQ Portal

eLearning Corporate Program

Scheduled Courses

ASHRAE Presidents Scholarship

Certified HVAC Designer (CHD) Certification

Planned Giving

Supplier-Provided Learning

Updated and Improved

ASHRAE Technology Portal

Government Affairs

Standards Review Database

Free Resources

Marketing Central

ALSO, engage with ASHRAE year-round:

Download **ASHRAE 365** (it's free!)



### **ASHRAE's Advanced Energy Design Guides**

At this point, you've heard of ASHRAE's Advanced Energy Design Guides.

But did you know?

- The AEDGs are developed through a partnership between ASHRAE, AIA, IES, and USGBC with funding and support from DOE.
- In 2018, ASHRAE released the groundbreaking Advanced Energy Design Guide for K-12 School Buildings: Achieving Zero Energy, and is working to develop more Zero Energy guides.
- The AEDGs provide a path for earning LEED® New Construction EA points.
- They're FREE to everyone.

There are three series of AEDGs. Each guide addresses a specific building type, perfect if you design facilities for:

Commercial/Office	Healthcare
Lodging	Retail/Grocery
Schools	Warehouses

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Download your copy today: <https://www.ashrae.org/technical-resources/aedgs>

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### **Certified HVAC Designer (CHD)**

Application for the new Certified HVAC Designer (CHD) certification is now open. Computer-based testing begins worldwide on June 3. The Certified HVAC Designer (CHD) certification validates competency of the HVAC Designer, working under the responsible charge of an engineer, to do the following:

Design HVAC systems to meet building/project requirements, including load calculations, equipment selection and sizing, mechanical equipment room design, duct and piping design, and layout for the development of HVAC plans for permit and construction.

In the last month alone, over 900 HVAC Designers and employers have downloaded a **CHD Candidate Guidebook**, which details the CHD examination blueprint and application eligibility requirements. Mark Fly, P.E., Fellow ASHRAE, and Chair of the CHD Exam Subcommittee, says: "launching a new certification program is a commitment, but ASHRAE is confident this is an investment from which Members and their employees will benefit."

<https://www.ashrae.org/professional-development/ashrae-certification/certification-types/chd-certified-hvac-designer>

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### **2019 ASHRAE Annual Conference**

**Kansas City, MO June 22–26, 2019**

ASHRAE is headed to Kansas City, MO for the 2019 Annual Conference! Join us June 22-26, as we welcome new Society Officers, kick back at social events, and explore solutions to the demands of our ever-changing industry.

Register before April 28 for the best rates.

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

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