



## ASHRAE Ottawa Valley Chapter

**DATE:** Tuesday October 20, 2020  
1600 - 1730 Hrs EST

**LOCATION:** Zoom Webinar

**PROGRAM:** Burj Khalifa: Engineering the World's Tallest Building

This talk will focus on the design, construction, and post-occupancy of Burj Khalifa, the tallest building in the world. The tower's design optimizes performance by anticipating how environmental factors change both in the desert climate and at different elevations. Special attention was paid to materials selection, how creep and shrinkage impacts water risers, etc. The tower features many innovative systems. Select systems include: a 460 psi chilled water system; an ice storage chilled water system; one of the world's largest condensate recovery systems; stack effect monitoring and control; post-occupancy measurement of air contaminant levels; special balcony door sensors that inform occupants when air quality is ideal for opening the door; and a first-of-its-kind "lifeboat" elevator system that can provide controlled evacuation, among others.

**SPEAKER:** Luke Leung

Luke is a LEED (Leadership in Energy and Environmental Design) Fellow; He is also a Centennial Fellow from The Pennsylvania State University Architectural Engineering Department; ASHRAE Pandemic Task Force Commercial Team Leader; AIA COVID-19 Task Force, Vice Chair of ASHRAE "Environmental Health Committee"; ASHRAE Distinguished Lecturer; Former Chair of ASHRAE TC 9.12 on Tall Buildings; BOMA Toronto Health Committee Co-Chair; Expert Peer Review Committee for Council on Tall Buildings and Urban Habitat; Former Board of Directors for USGBC, Illinois; Industry Advisory Board for IN2 start-up incubator program with US National Renewable Energy Laboratory; Board of Directors for USGBC, Illinois.

Luke Leung is a Director of the Sustainability Engineering Studio for Skidmore, Owings and Merrill LLP. His work includes Burj Khalifa, the world's current tallest man-made structure; Multiple times "Excellence in Engineering" award from the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE); 2 awards from National Institute of Building Sciences, among others.

(cont.)

**Please register online at the link below**

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<https://ashraeottawa.simplesignup.ca/en/4020/index.php?m=eventsList>

Selected projects also include Pertamina Tower (Net Zero Supertall), General Motors Global Headquarters, Roche Diagnostic in Indianapolis, Beijing Finance Street, Embassy of Ottawa in Canada, Embassy in Beijing, Lakeside – 55 million sqft low energy development, a

LEED Platinum building with the first large scale horizontal wind turbine in the city of Chicago; etc., and has served as a member of the editorial team for the CTBUH guide Natural Ventilation in High-Rise Office Buildings, ASHRAE "Design Guide for Tall, Supertall, Megatall

Building Systems", among other publications.

## President's Message

The ASHRAE year is now underway, and I'd like to start my message by thanking everyone who helped make our first meeting such a success. There was a tremendous amount of work put in by your ASHRAE team to make sure that we were all able to experience a program of great value. I'd like to particularly thank Sandy Taylor, our program team, our executive, and the board. Taking on the challenge of a complete change in program direction is not an easy task. To see the support that we have had internally and from our membership is heartening. The feedback from you all has been received, noted, and is greatly appreciated. It seems as though we have made the transition well.

As we move into the next phases of our ASHRAE year, I am excited to know that we have a wealth of fantastic speakers and topics that will be presented. Our program team has spent a great deal of time making sure that we won't lose a stride in our journey. We should all be grateful for the work that they have done. Please be sure to watch on the OVC website

for all of the exciting presentations and informative sessions that will be coming!

I am thrilled that we have Luke Leung speaking about the Burj Khalifa, and what it means to engineer the world's tallest building, for our October meeting. This building has been a personal fixation for years....

While we don't have the in-person events for the foreseeable future, it is great to know that we have such a wealth of talented presenters available. The program that we will be putting forth in the coming months is formidable. I again request that you all take the time to engage, and to aid us in determining what might be the best methods for supporting your involvement in our chapter.

This is my favorite time of year. The transition into fall is always beautiful. Both personally, and professionally, I think we all see the change.

While we dig into this next stretch, please remember to challenge and



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champion your colleagues. Engage them to 'ASHRAE' as well. Our organization, and our chapter, is filled with the best ways to better your world. Encourage those around you to take advantage and to help.

Wishing you all a most spectacular start to autumn!!

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# What You Missed

The first program meeting of the 2020/2021 ASHRAE season was held at via the virtual platform Zoom. The theme for the meeting was Membership Promotion. The meeting had 79 registered attendees. The program for the evening was IAQ and Cognitive Functioning in High Performing Building, presented by Brian Monk.

President Adam Moons welcomed everyone and started the Webinar. He explained how this year due to the challenges we are facing, the goal is still to bring the best value to our chapter. The meetings will start with short business session and to follow directly with the program topic.

President Adam Moons introduced the Executive and Board of Governors. President Adam Moons introduced fourteen new members that joined our Chapter over the summer on behalf of Membership Promotion Chair Josh Bourbonniere. Do not hesitate to reach out to Josh for any questions regarding your membership.

President-Elect Adrienne Mitani spoke about how this year's Research Promotion campaign will be different and to keep your ear out for updates. This year's Research Promotion goal is 35,650\$, the same as last year.

CTTC Chair Elizabeth Primeau followed with a few housekeeping items regarding the webinar. The attendees were reminded of the survey which will be emailed after the meeting. CTTC Chair Elizabeth

Primeau announced the program topic for the evening, IAQ and Cognitive Functioning in High Performing Building, and introduced the speaker, Brian Monk. Brian is National Sales Manager, responsible for Carrier Custom Air Handling Solutions, specializing in design of air treatment systems, including airborne contaminant control and dedicated outdoor air systems with energy recovery. Mr. Monk is an ASHRAE Distinguished Lecturer, and Part-Time Professor in the Faculty of Building Engineering at Vanier College. He is also a member of the IAQA (Indoor Air Quality Association) and a member of Carrier's Healthy Building Center of Excellence committee.

Brian started off by highlighting two important articles published by ASHRAE regarding indoor air quality:

Guidance for Building Operations During the COVID-19 Pandemic by Lawrence J. Schoen, P.E.

Improving IEQ To Reduce Transmission of Airborne Pathogens In Cold Climates by STEPHANIE H. TAYLOR, M.D.; C. MICHAEL SCOFIELD and PATRICIA T. GRAEF.

Buildings are increasingly being designed to support the health and well-being of occupants. From an HVAC standpoint, the technology is available. Building codes, design guidelines and standards are continually being updated, including addressing COVID-19.

There are many strategies for re-opening commercial building, such



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as reopening the facility in stages, be flexible and agile, leverage data for occupant health, manage visitors and explore alternate system upgrades. Building Assessments are important in order to determine which upgrades can be achieved. Building owner need to know what the tenants want so they are interested in staying in the building. Many systems upgrades are available, such as airside solutions, portable filtration, increased OA, Filtration and purification, building controls, occupant temperature or touchless access. Increase building operation efficient is important. On average we spend 90% of our time inside a building, home or office. WE can use healthy building environment to improve cognitive function, improve personal health and improve societal health.

Airborne contaminant control is a design approach of reducing and controlling the concentrations of selected air contaminants of concern through both dilution and enhanced air cleaning will be reviewed and compared (Dose - Distance - Duration). Viruses can stay in the air up to 10 days, cat dander up to 10hours.

Brian noted that there is a lot of valuable information available on the

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ASHRAE Epidemic Task Force website.

ASHRAE's statement on airborne transmission of SARS-CoV-2/COVID-19:

"Transmission of SARS-CoV-2 through the air is sufficiently likely that airborne exposure to the virus should be controlled. Changes to building operations, including the operation of heating, ventilating, and air-conditioning systems, can reduce airborne exposures."

ASHRAE's statement on operation of heating, ventilating, and air-conditioning systems to reduce SARS-CoV-2/COVID-19 transmission:

"Ventilation and filtration provided by heating, ventilating, and air-conditioning systems can reduce the airborne concentration of SARS-CoV-2 and thus the risk of transmission through the air. Unconditioned spaces can cause thermal stress to people that may be directly life threatening and that may also lower resistance to infection. In general, disabling of heating, ventilating, and air-conditioning systems is not a recommended measure to reduce the transmission of the virus." Filtering the air with HVAC filters is crucial to reduce virus transmission and removing other air contaminants that may have health effects.

The use of highly efficient particle filtration in centralized HVAC systems reduces the airborne load of infectious particles (Azimi and

Stephens 2013). This strategy reduces the transport of infectious agents from one area to another when these areas share the same central HVAC system through supply of recirculation air. Single space high efficiency filtration units can reduce concentration of infectious aerosols in a single space. However, it is important to note that filtration does not eliminate all risk of transmission of airborne particulates since there are various other factors that contributes to disease transmission.

Biological contagious mater is usually brought in by occupants and not from fresh air. Brian referred to a table that illustrated removal efficiencies based on ACH and time.

The nine foundations of a heathy building:

- Ventilation
- Air Quality
- Thermal Health
- Filtration
- Moisture
- Safety and Security
- Noise
- Dust and Pests

Brian explained different filtration technologies available, such as HEPA filters, Electrically enhanced filtration, Electrostatic precipitator, UVGI, UV PCO, Photocatalysis, BPI.

Moisture management in AHU is also important for IAQ. ASHRAE 62.1 indicates to construction drain pans with 304 stainless steel for coil condensate/washdown and to properly sloped to drains.

Humidification controls is also important. Many scientific studies prove the positive impact of relative humidity between 40-60 percent on a human's health and immune system.

ASHRAE Standard 62.1 provides an effective guideline for designers to navigate through building airborne pollution control requirements. Outdoor air normally established for dilution, in combination with filtration, can effectively control offending contaminants that are deemed to exist in the OA or occupied space. When air purification technologies are appropriately selected and located within air-handling systems, these technologies can provide a significant improvement tot the building's overall IAQ and their cost can be justified with the promotion of high-performance building concepts. Building commissioning, performance testing, and maintenance play important roles in ensuring that the selected filtration technologies perform at intended levels through their life cycles.

The presentation finished with a question period. Elizabeth read the questions to Brian that were sent from attendees via the webinar chat.

President Adam Moons thanked Brian Monk and reminded attendees of the survey which will be emailed. The next meeting is scheduled for Tuesday October 20th.

## Membership Update

I would like to introduce and welcome the following new member:

- Danny Doiron

At any time, if you have any questions or comments regarding your ASHRAE membership, please do not hesitate to contact me. Thank you all for the continued support and

participation in your local ASHRAE chapter during these times. Looking forward to seeing everyone at the next ASHRAE virtual meeting in October.



### Membership Promotion

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# News Update

## ASHRAE Technical Committee Release Technical Bulletin on Edge Computing Design and Operation

ATLANTA (September 25, 2020) – ASHRAE Technical Committee (TC) 9.9 (Mission Critical Facilities, Technology Spaces and Electronic Equipment) has addressed the unanticipated risks associated with edge computing design and operation through a new technical bulletin, “Edge Computing: Considerations for Reliable Operation.”

“ASHRAE TC 9.9’s first edition of Thermal Guidelines for Data Processing Environments (2004) was both ground-breaking and foundational. Prior to this publication, there was no global, unified source for environmental conditions (e.g. temperature). Data centers relied on recommendations from each IT manufacturer. The Thermal Guidelines book became the global de facto standard, ultimately opening the door for economizers in data centers. Edge computing/digital infrastructure has no global, unified source for environmental conditions until now. This publication is ground-breaking, foundational, and will become a de facto standard,” said Don Beaty, first chair of TC 9.9.

“Edge computing can expose IT equipment to adverse environmental conditions that compromise reliability and uptime. ASHRAE TC 9.9 has carried out years of R&D in collaboration with leading IT equipment manufacturers on best practices to mitigate these risks. I believe this publication is a trailblazing work that will serve as a blueprint for all new edge deployments.” said Jon Fitch, lead author of the technical bulletin.

ASHRAE Technical Committee 9.9, Mission Critical Facilities, Technology Spaces and Electronic Equipment, is

composed of a wide range of industry representatives, including but not limited to equipment manufacturers, consulting engineers, data center operators, academia, testing laboratories, and government officials who are all committed to increasing and sharing the body of knowledge related to data centers.

## ASHRAE Learning Institute Announces 2020 Fall Online Course Series

ATLANTA (August 21, 2020) – ASHRAE Learning Institute (ALI) has opened registration for its 2020 [Fall Online Instructor-led Course Series](#). The series which begins on September 10 and concludes on December 15, features 18 new or updated courses.

“ASHRAE’s online course series successfully engages built environment professional through in-depth, practical instruction on a wide variety of topics,” said Charles E. Gullledge III, P.E. “This course series is structured to expand knowledge and provide professionals with an exceptional level of understanding to address today’s building challenges.”

Evaluating Your HVAC System’s Readiness to Mitigate the Spread of SARS-CoV-2 expounds on the online ASHRAE COVID-19 details for reopening buildings and the Building Readiness Plan for HVAC systems. The course will focus on the re-occupancy of existing buildings through the evaluation of HVAC systems and how they can be altered to improve their ability to mitigate the transmission of a virus, like SARS-CoV-2 that creates the COVID-19 disease and how to potentially future proof them for the next epidemic.

Three-hour short courses are \$299 (\$224 ASHRAE Member), two-hour courses are \$198 (\$149 ASHRAE



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Member) and one-hour courses are \$99 (\$74 ASHRAE Member).

## Making Polling Places Safer

ATLANTA (August 20, 2020) – As election season continues throughout the nation during the pandemic, the ASHRAE Epidemic Task Force is offering HVAC and water supply system guidance for polling places.

ASHRAE’s [Building Readiness](#) guidance provides practical information and checklists to help minimize the chance of spreading SARS-CoV-2, the virus that causes COVID-19.

“Protecting our voters and poll workers from increasing the spread of COVID-19 at polling places is essential to protecting the health, welfare and safety of the entire population,” said Dennis Knight, ASHRAE Epidemic Task Force vice chair. “Many different HVAC system types are used in polling places, so adaptation of these guidelines to specific cases is necessary.”


Here is a summary of key general recommendations related to HVAC and water supply systems for polling places:

- **Space Selection:** Select a space with larger area for people to spread out, and if possible, a high ceiling to provide more volume for dilution. Consider space with operable windows if there are potential ventilation issues.
- **Inspection and Maintenance:** Consider assessing the condition of systems and making

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necessary repairs. All building owners and service professionals should follow ASHRAE Standard 180-2018 "Standard Practice for the Inspection and Maintenance of Commercial HVAC Systems."

- HVAC Operation: The HVAC and toilet exhaust systems should be running when the space is occupied. If the HVAC system cycles on/off with the thermostat, consider running the fan constantly during occupied hours. If toilet exhaust is controlled by manual switches, leave the fan running for 20 minutes after use, or consider setting the switch to "on" and use signage that directs not to change the setting.
- Ventilation: A good supply of outside air, in accordance with ASHRAE Standard 62.1-2019, to dilute indoor contaminants is a first line of defense against aerosol transmission of SARS-CoV-2. Pre- and post-occupancy purge cycles are recommended to flush the building with clean air. If the polling place is not ventilated or poorly ventilated and filter efficiency is not good, consider opening doors and windows, and consider re-locating all voting to the outdoors.
- Air Distribution: Air flow distribution should not cascade air from the face of a person onto others, so take care in using personal fans.

- Filtration: Use of at least MERV-13 rated filters is recommended if it does not adversely impact system operation. If MERV-13 filters cannot be used, including when there is no mechanical ventilation of a space, portable HEPA air cleaners in occupied spaces may be considered. Also consider portable air cleaners in locations with more vulnerable staff.
- Air Cleaning: Air cleaners such as germicidal ultraviolet air disinfection may also be considered to supplement ventilation and filtration. Technologies and specific equipment should be evaluated to ensure they will effectively clean indoor air without generating additional contaminants or negatively impacting space air distribution by creating strong air currents.
- Temperature and Humidity: It is desirable to set the thermostat at the higher end of the comfort zone, 75-78°F and maintain relative humidity between 40-60%.
- Energy Use Considerations: In selecting mitigation strategies, consideration should be given to energy use as there may be multiple ways to achieve performance goals that have greatly different energy use impact. Control changes and use

of energy recovery to limit or offset the effect of changes in outdoor air ventilation rate and filter efficiency may reduce or offset energy and operating cost penalties.

- Water System Precautions: Buildings that have been unoccupied could have stagnant water, and water systems should be flushed to remove potential contaminants. Utilizing ASHRAE Standard 188 and Guideline 12 can help minimize the risk of water-borne pathogens such as legionella.

"The task force's approach to protecting indoor air quality in polling place is practical, and can help safeguard voters, poll workers and other building occupants as most sites are shared locations that serve many different purposes," said Luke Leung, ASHRAE Epidemic Task Force commercial/retail team lead.

ASHRAE's Epidemic Task Force has developed guidance and building readiness information for different operating conditions and several building types, including commercial, residential, educational, and healthcare facilities.

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# Research Promotion

Thank you for your continued support of the ASHRAE Research Canada! All of the money donated to ASHRAE research goes back to the support of our community, and you can control exactly where that goes. For every dollar raised towards ASHRAE Research Canada, four dollars is invested in research projects within Canada.

## What is the RP Campaign?

The campaign is an annual fundraising campaign benefiting our industry through many ASHRAE programs which includes:

- ASHRAE Research Canada and ASHRAE Research Canada to address the COVID-19 pandemic
- ASHRAE Scholarships for undergraduate students
- ASHRAE Learning Institute (ALI) development of the courses and materials
- Graduate Research Projects (Grants-in-Aid)
- Young Engineers in ASHRAE (YEA) Leadership Training
- Permanently endowed support to all of the above programs

The Ottawa Valley Chapter goal is \$37,700 and we are confident that our chapter and committee can achieve this committee. The Society RP campaign raises over \$2.2 million each year from over 6,000 donors.

## Why to Donate:

No matter what your priorities are there are, or how much you are able to donate there is a reason to give. It is a difficult time right now for everyone, however ASHRAE's goals have not changed, to encourage innovation, promote energy efficiency and to better our society through building science. This is also why we are encouraging you to donate towards ASHRAE Research Canada as well as to the ASHRAE Research Canada to address the COVID-19 pandemic, which go directly to projects within Canada to be funded. Through the programs listed above you can support Graduate Research Projects which have been awarded locally to many Carleton and Queen's grad students over the years. The National Research Council has received funds from ASHRAE Research Canada in the past, and the YEA program has been able to subsidize their programs to make leadership training more accessible to young people in our industry which many in our chapter have taken advantage of over the years. If you are at all uncertain on how to



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make your contribution go in your direction of choice please reach out and we will ensure it happens.

## How to Donate:

There are three ways to donate to ASHRAE, directly to ASHRAE Research Canada through the ASHRAE OVC website.

Donation can be made directly on the ASHRAE Society website where you can direct the fund of your choice. This year there is also a place you can support ASHRAE Research to address the COVID-19 pandemic or ASHRAE Research Canada to address the pandemic.

<https://xp20.ashrae.org/secure/foundation/covid.html>

Or a cheque can be sent made payable to ASHRAE Ottawa Valley Chapter.

The list of the current campaign donors will be provided in the monthly communique and updated on the website, so donate and see your name appear!

ASHRAE Society link: <https://xp20.ashrae.org/secure/researchpromotion/rp.html>

ASHRAE OVC link: <https://ashraeottawa.simplesignup.ca/en/4883/index.php?m=eventSummary>

# Student Activities

September was a busy month for student membership promotion. A pre-recorded Youtube message introducing and describing the benefits of ASHRAE has been made to circulate to online course material and it has been successful in promoting ASHRAE to students in the Ottawa Valley. If anyone would like access to the video to promote ASHRAE to students in the Ottawa Valley please email me at [jaysonbursill@cmail.carleton.ca](mailto:jaysonbursill@cmail.carleton.ca) and I will provide the URL.

With our strong student member base from local schools we are beginning our informal online discussion format. This will include small groups (3-10 university students) and one (or more) mentor(s) from the Ottawa Valley Chapter discussing their work, providing advice, and fielding questions. The first session will be in early October and will include Adrienne Mitani and myself. If you have an hour of free time and are interested in sharing your knowledge and professional experience with eager students please contact me at



**Student Activities**  
**Jayson Bursill**  
2020-2021  
OVC Student Activities  
**Carleton University**

**E-mail:** [jaysonbursill@cmail.carleton.ca](mailto:jaysonbursill@cmail.carleton.ca)

[jaysonbursill@cmail.carleton.ca](mailto:jaysonbursill@cmail.carleton.ca) and I will add you to my roster for these events.

# 2020-2021 Government Affairs Committee



**Government Affairs Chair**  
**Adrienne Mitani**  
 2020-2021  
 OVC Govt. Affairs Chair  
**Smith+Andersen**

E-mail: [adrienne.mitani@smithandandersen.com](mailto:adrienne.mitani@smithandandersen.com)

The Government affairs committee's goal is to educate local, provincial, and national governments about ASHRAE and the expertise of our industry and ASHRAE as a whole. We are not a lobbying group, but want to work to ensure that the officials know about ASHRAE as a resource. Our main goals are to provide technical information to government officials and facilitate answering questions that they have.

Presidential Member David Underwood, Epidemic Task Force Schools Team Member Kyle Hasenkox and Distinguished Lecturer Doug Cochrane spoke on a panel that focused on reopening schools and universities.

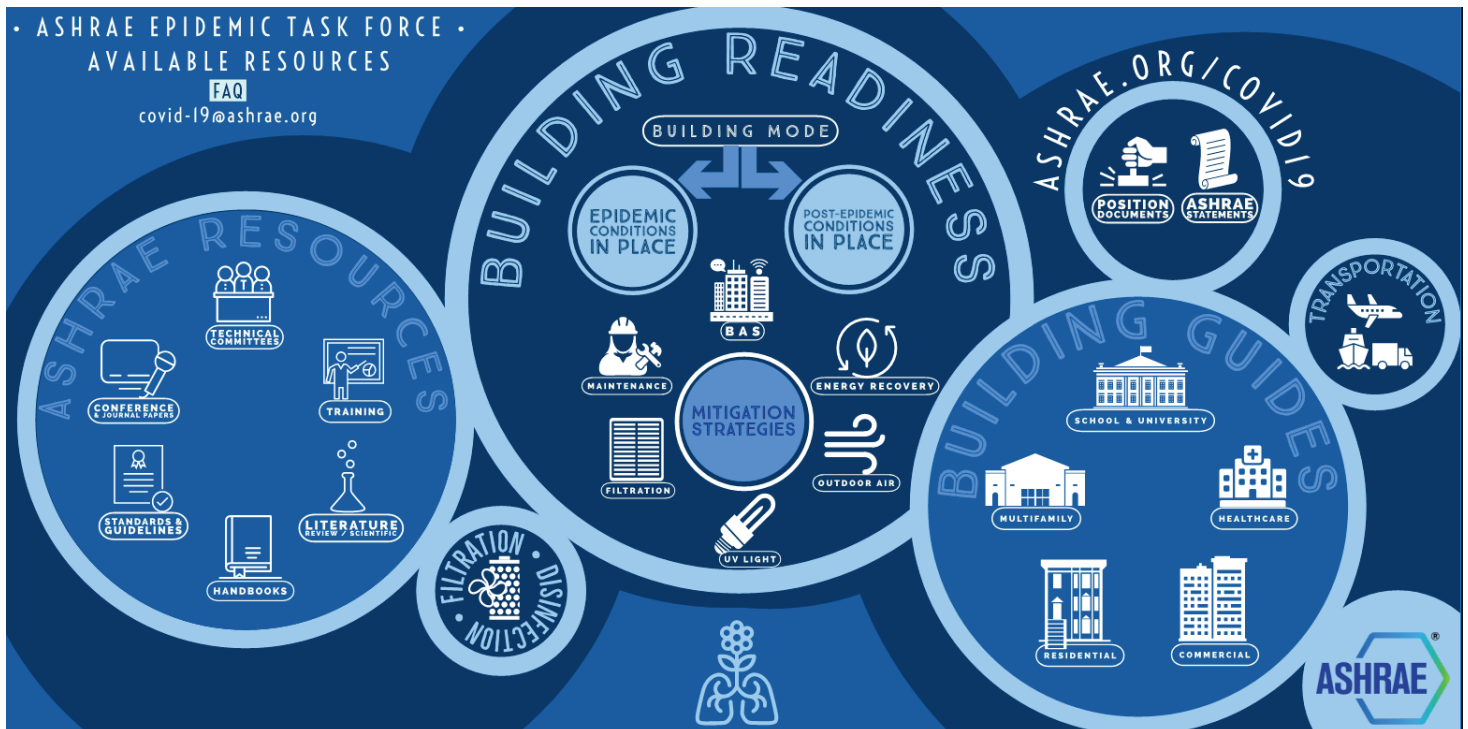
- ASHRAE Montreal Chapter Member Audrey Dupuis spoke to the Montreal CTV News about guidance on school ventilation issues related to COVID-19.

- ASHRAE GAC member Rob Hoadley was interviewed by the New Brunswick Telegraph-Journal also on school ventilation systems and how they affect transmission.

If you have not heard about the ASHRAE epidemic task force, for more information about ASHRAE's [Coronavirus Response](#) resources which covers reopening, buildings, filtration, transportation and ASHRAE guidance's on infection aerosols, schools and much more, check out this infographic: <https://www.ashrae.org/technical-resources/resources>. COVID-19 related outreach has been very active globally as well as in Canada such as below:

Also Efficiency Canada and Carleton University have jointly released a report on Canada's energy codes, which discusses the possibilities of tiered energy codes along with a number of recommendations. Report can be found [here](#).

- September 2nd - ASHRAE





# Advertising

Advertising career opportunities on the **ASHRAE Ottawa Valley Website** makes good business sense. We offer a unique way to reach technical professionals and make your ad dollars work hard for you.

To discuss your needs, contact one of our chapter officers, via our "This Year" page. Increase the impact of your advertising through the **ASHRAE Ottawa Valley Website** today.

Rates for **career opportunities** ads are as follows:

## Chapter Member:

\$50/month  
\$80/2 months  
\$100/3 months

## Non-member:

\$250/month

*Note: Purchase of additional months will only have a discounted rate if purchased up front. Otherwise the standard rate will apply for additional months.*

## Placement of an Ad

We suggest that you complete and submit our advertisement form to speed up the processing of your request. If you have provided your e-mail address, a confirmation receipt e-mail will be sent to you for reference.

Please note that ads require prepayment made to the treasurer. Please register and pay through the online system and contact **Adam Moons** ([amoons@master.ca](mailto:amoons@master.ca)) with any questions. Follow the link below for payment.

The ads will appear on the website until the end date for publication provided in the submitted form. To extend the ad, please resubmit the form with the new publication dates and the required prepayment amounts.

Link: <https://ashraeottawa.simplesignup.ca/en/2590/index.php?m=eventSummary>

Link: <https://ashraeottawa.simplesignup.ca/en/2593/index.php?m=eventSummary>

# Business Card Ads

You can support your chapter and promote your business by placing your business card in the Capital Communiqué. It will also appear on the chapter website.

The cost is **\$250.00** for the year. Please contact **Rod Lancefield** at [rod.lancefield@hts.com](mailto:rod.lancefield@hts.com) for more details.

Payment will be made through the online system. Follow the link below for payment.

<https://ashraeottawa.simplesignup.ca/en/2591/index.php?m=eventSummary>

Ads will **now require prepayment**. All of last year's ads will appear in the Communiqué for the first month of this year to allow time for payment for the upcoming year. Ads will be refreshed accordingly in the second Communiqué.

## Publicity 2019-2020 Publicity Committee Co-Chair

HTS Engineering Ltd.  
E-mail: [rod.lancefield@hts.com](mailto:rod.lancefield@hts.com)



**Treasurer**  
**Ryan Dickinson**  
2020-2021  
OVC Treasurer  
**V&R Engineering**

E-mail: [ryand@vreng.ca](mailto:ryand@vreng.ca)



**Publicity**  
**Rod Lancefield**  
2019-2020 Publicity  
Committee Co-Chair  
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## 2020-2021

### President

Adam Moons

### President-Elect

Adrienne Mitani

### Treasurer

Ryan Dickinson

### Secretary

Celine Baribeau

### Governors

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Joel Primeau

Evans Mutua

Trevor Thomson

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Aaron Dobson

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Sandy Taylor

#### Audit

Abbey Saunders

### Capital Communiqué

Evans Mutua

#### CRC

Evans Mutua

Donald Weekes

#### CTTC

Trevor Thomson

#### Grassroots

### Government Affairs

Adrienne Mitani

#### Financial

Sandy Taylor

#### Greeter

Mike Swayne

#### History

Zachary Lanthier

#### Membership

#### Promotion

Josh Bourbonniere

### Nominations &

#### Awards

Steve Moons

Abbey Saunders

#### PAOE

Adam Moons

#### Program

Zarna Kakadiya

#### Publicity

Samir Elchomaa

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Adrienne Mitani

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Colleen Fox

Rod Lancefield

Adam Moons

Michael Callaghan

Adam Graham

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David Michelin

#### YEA

Jordan Hansen

#### Website

Ryan Dickinson