



## ASHRAE Ottawa Valley Chapter

**DATE:** Tuesday January 19, 2021  
1600 - 1730 Hrs EST

**LOCATION:** Zoom Webinar

**PROGRAM:** Targeting Success-Improve Employee Satisfaction, Retention and Profit

As the building design and construction industry looks at the composition of the future workforce, it is clear that the demographics of today's workforce will need to change to meet future demand for employees. It is projected that this change will include increasing the number of women employed in the building design and construction industry. We have seen an increase in young women enrolling in STEM disciplines at the university level and an improvement in the number of women students attaining college degrees, but we have not seen the same increase in the percent of women employed in the STEM workforce. This inconsistency can be attributed to poor retention of women once they enter the profession. This presentation will address why women leave the industry and what can be done to help increase retention. This is an important topic for our industry as a whole as well as for employers trying to minimize turnover and maximize productivity and profit. Do to the broad topic appeal this has proven to be especially successful topic for joint meetings with other professional organizations.

**SPEAKER:** Julia Keen, P.E., Ph.D., ASHRAE Fellow, BEAP, HBDP

Julia Keen is a Professor of Architectural Engineering and Construction Science at Kansas State University holding the Bob and Betty Tointon Engineering endowed chair. She also owns her own consulting company, Keen Designs, PA. Her specific areas of interest include HVAC design, energy codes, high performance design, HVAC education, and the advancement of women in the building design and construction industry.

Julia Keen received her Bachelor's Degree in Architectural Engineering from Kansas State University. Upon graduation, she worked as a Mechanical/Electrical Project Engineer in Waterloo, Iowa. In this capacity she was responsible for the design of building systems from initial planning stages through final project inspection and completion. In July 2003, Julia accepted a faculty position with K-State in the Architectural Engineering and Construction Science Department. (cont.)

**Please register online at the link below**

ASHRAE Associate/Affiliate/Member:	\$0	Non-Member:	\$10.00
ASHRAE Student :	\$0	Non-MemberStudent:	\$10.00

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

She completed her Master's degree in Architectural Engineering (2005) and her Doctorate (2010) in Education both from K-State. She is a Licensed Mechanical Professional Engineer in Kansas and Iowa and holds two ASHRAE Certifications - High-Performance Building Design Professional (HBDP) and Building Energy Audit Professional (BEAP).

In addition to her 9-month faculty appointment at K-State, Julia has the opportunity to stay current with the HVAC industry in a consulting capacity. Her consulting endeavors include performing as HVAC professional education consultant, engineering design, plan check and quality review, and acting as an owner's representative in facility planning and project implementation.

Julia became involved in ASHRAE as a student member of the Kansas State University student branch. She has acted as the faculty advisor to this branch since 2003 during which time the chapter has routinely attended the ASHRAE winter meetings and the competition team that she has coached has finished first in the ASHRAE Design Competition six times. Through the years, Julia has held several chapter positions including President of the Cedar Valley Chapter. She has also been involved in many Society level committees including: Finance, Publishing and Education Council, Planning, Publications, Conferences and Expositions, and Certification as well as chaired TC6.1-Hydronic and Steam Equipment and Systems. Julia served in the elected positions on the

ASHRAE Society Board of Directors as Vice President (2017 - 2019) and Director-at-Large (2013 - 2016). As a DAL and VP she served as Ex Officio/Coordinating Officer to the Refrigeration, Society Rules, and Standards Committees and was a voting member of Tech Council. Her service to the organization was recognized in 2010 when she was given the Distinguished Service Award. Julia continues to promote her passion of HVAC education through the HVAC Essentials Course she co-developed and delivers for ASHRAE around the world. She was promoted to the grade of ASHRAE Fellow in 2016 and was presented with the 2018 ASHRAE E. K. Campbell Teaching Award.

## President's Message

Welcome to 2021 all of you wonderful people. I trust that the holiday season afforded all with an opportunity to reflect on 2020, and take the time to recharge batteries that, for many, were starting to run out of energy. The restrictions made elements to the break more challenging, but I can already feel a shift in mood.

We generally start the New Year full of hope, and this is no exception. There are many things in the works that will continue to stem the spread of the virus. There is optimism for the economy. The days are growing

brighter with the light of progress and change. January will be a most spectacular month. Our program meeting is one that many have been looking forward to for some time, and I am no exception. The reviews for Julia's content and presentation style are very strong. I encourage you all to take the time out of your day to join us.

The theme for our chapter meeting is YEA. Young Engineers in ASHRAE. It's a program that has never had a more important role. As we make



**President**  
**Adam Moons**  
2020-2021  
OVC President  
**Master Group**

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the transitions necessary to continue to drive our industry forward, we will need to make certain that the transfer of information is effective to the next generation of HVAC/R professionals. Gone are the days of

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watching over the shoulder of a colleague. The opportunities to take less experienced individuals under a wing are diminished.

In keeping with a humble request for the furtherance of volunteerism, I ask our more seasoned members to take a good look at ways to encourage the involvement of your younger teammates. Our program

meetings, tech sessions and seminars are a great way for them to keep up to speed with a constantly (and quickly) changing industry.

If you have questions regarding YEA, please reach out to Jordan Hansen or Joe Della-Valle.

As always, I'm thankful for the time and attention that is given to ASHRAE

OVC, and I look forward to seeing great numbers for the upcoming events!

Wishing you a healthy and prosperous New Year!

## What You Missed

The third program meeting of the 2020/2021 ASHRAE season was held on November 17, 2020 via the virtual platform Zoom. The theme for the meeting was Student Activity. The meeting had 55 registered attendees. The program for the evening was Transforming Existing Buildings into High-Performing Facilities – in the age of Covid-19, presented by Jim Newman.

Before the program meeting was held a technical session hosted by Joel Primeau. Joel talked about VAV systems and how there have been many debates regarding the continued use of VAV systems in HVAC designs. He explained how VAV systems work, their advantages and disadvantages, and why they may not be recommended in our post-covid world, where concerns for improved ventilation and indoor air quality will grow.

President Adam Moons welcomed everyone and started the Webinar. He noted that a Tech session was held before by Joel Primeau. Adam emphasized that if you are new to

the organization, to please feel free to reach out to anyone currently involve to learn about their experience and the value they receive of ASHRAE.

President Adam Moons introduced the Executive and Board of Governors and past President. President Adam Moons introduced one new member that joined our Chapter since the last program meeting on behalf of Membership Promotion Chair Josh Bourbonniere.

President Adam Moons the introduced CTC Chair Elizabeth Primeau. Elizabeth followed with a few housekeeping items regarding the webinar. The attendees were reminded of the survey which will be emailed after the meeting. CTC Chair Elizabeth Primeau announced the program topic for the evening, Transforming Existing Buildings into High-Performing Facilities – in the age of Covid-19, and introduced the speaker, Jim Newman.

Jim Newman is an active member of many technical societies. Jim is a



**Governor  
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2020-2021

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trainer for ASHRAE Energy Standard 90.1 and has trained hundreds of architects, engineers, code officials, and contractors on the use of the Standard. He has been active in several ASHRAE TCs, was Vice-chair of the Industrial Air Conditioning TC in the 1970s. He has also been active on TC 5.5, Air-to-Air Energy Recovery, for the past 12 years. He was a member of the committee that developed ASHRAE's Energy Policy Document for 2008 and a Provisional Energy Auditor for the pilot program of the ASHRAE Building Energy Quotient (bEQ).

Jim lectures at area colleges and universities, is a frequent speaker on radio and television programs, and provides webcasts and podcasts to varied audiences on Indoor Air

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Quality, Energy, Sustainable Buildings and Proper Operating and Maintenance Techniques.

Jim has published numerous papers on Indoor Air Quality, Energy Conservation and USGBC and LEED, and is an internationally recognized speaker on these issues and on Green Design and Efficient Operating and Maintenance practices. His most recent book, co-authored with two attorneys, Current Critical Issues in Environmental Law – Green Buildings and Sustainable Development, was published by Lexis Nexis in June 2008.

Jim Newman started the presentation mentioning that most buildings will start losing up to 30% of their efficiency in the first three years of operations. There are many ways in increasing the efficiency of the building at various costs.

Some of the low-cost methods of reducing energy on the HVAC side were discussed. Properly calibrate sensors, use programable thermostats, adjust/repair economiser dampers and adjust for proper volume of outside air, use occupancy-based controls with CO2 sensors and of course clean and replace filters regularly.

Moderate cost options were also

discussed, such as optimizing VAV systems with thermally powered diffusers, using VFDs on equipment where possible, proper insulation, repairing AHUs instead of completely replacing and using variable refrigerant flow systems. Other methods of reducing HVAC energy that are usually not considered were also discussed. Its all about proper and effective O&M practices. Sealing ducts reduces energy waste. Also, properly cleaning heating and condenser coils. Using hotter water or steam with proper nozzles and not just a garden hose. When should we replace vs repair? ASHRAE has a database for up to date information regarding equipment service life to help make this decision: [ashrae.org/database](http://ashrae.org/database)

There are technologies available such as Epoxy technology, a polymeric top coat, that give more life to an air handler. Old air handling unit with rust on the inside could be "updated" with this.

Higher cost options were then listed. Variable flow chilled water systems, energy recovery heat exchanger, geothermal heat pumps, indirect evaporative cooling, chilled beams are all methods mentioned that reduce energy consumption but at a higher cost.

Cost of owning a building is like a reverse triangle. The cost of construction usually represents 5% of the cost of ownership. You could spend more towards the 7% mark to have better commissioning and a more efficient system in order to save more money in the long run. Its very important to think about the maintenance and operation team. Proper commissioning, re-commissioning once the building has been built will also help increase the efficiency of the building in the long run.

Design with the mindset for effective operation and maintenance. For example, in a large fan in building in downtown Toronto, the bearing broke. The building had no fan for three day until the equipment was repaired. One large fan might not have been the best option.

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

President Adam Moons thanked Jim Newman, ended the webinar with closing remarks and reminded attendees of the survey which will be emailed. The next meeting is scheduled for next year Tuesday, January 19th.

## Membership Update

I trust everyone had a safe and happy holiday season. It wasn't our typical celebration compared to past years, but I hope most of you were still able to sit back and enjoy some well-deserved time off.

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

- Andrew Melville
- Sebastien Gagnon
- Jonathon Lacombe

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 later this month.



### Membership Promotion

**Josh Bourbonniere**  
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# News Update

Hello OVC. Your CTTC committee would like to wish you a very happy new year! We are all very excited for the upcoming here and have here a few interesting articles for you to get up to date on some recent news and upcoming events.

ASHRAE and CIBSE Sign Strategic Partnership Agreement

FOR IMMEDIATE RELEASE  
MEDIA CONTACT:  
Karen Buckley Washington  
[kbwashington@ashrae.org](mailto:kbwashington@ashrae.org)

**ATLANTA (December 15, 2020) – ASHRAE and the Chartered Institution of Building Services Engineers (CIBSE) have signed a Strategic Partnership Agreement (SPA) formalizing the organizations' relationship.**

The SPA was signed by Charles E. Gullledge III, P.E., 2020-21 ASHRAE President and Stuart MacPherson, CIBSE President, during a virtual signing ceremony on December 10. The agreement outlines how ASHRAE and CIBSE will work cooperatively on activities that serve their respective memberships, to promote the advancement of a more sustainable built environment through HVAC&R technologies and their applications.

Areas of collaboration include:

- Joint initiatives aimed at accelerating the progression of digital technologies and research.
- Virtual design and construction to improve the resilience of buildings and the health of occupants in an increasingly challenging climate.
- Coordinated promotion of joint grassroots meetings and conferences.
- Advocacy and work on common public affairs goals and ideologies.
- Consistent leadership communication

- Publication development and distribution.
  - Education and professional development co-development and cross marketing.
- "Our continued collaboration with CIBSE provides a meaningful opportunity to coordinate efforts on innovative technologies and resources to advance the growth of the built environment," said Gullledge. "We value this partnership with CIBSE and are excited to leverage this collaboration to move the industry and buildings towards a more sustainable future."

"We are delighted to sign this agreement with ASHRAE and strengthen the long-standing relationship between our organisations," said MacPherson. "The increasing local and global challenges of maintaining safe, healthy and efficient built environments marks this as a particularly auspicious time to share knowledge and expertise to enhance our offerings for the benefit of both our members and wider society."

**ASHRAE Global Training Offers HVAC Design Web-Training Series**

FOR IMMEDIATE RELEASE  
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**ASHRAE Global Training Offers HVAC Design Web-Training Series Training for Africa, Middle East and Parts of Asia**  
Registration now open

**ATLANTA (December 14, 2020) – Registration is now open for HVAC Design training through the ASHRAE Global Training Center. This is the first HVAC Design Web-Training**



**CTTC Chair**  
**Elizabeth Primeau**  
2020-2021  
CTTC Chair  
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Series (MENA) scheduled over a period of 3 weeks through the Global Training Center and comprises of two HVAC Design courses; HVAC Design: Level I – Essentials (MENA) and HVAC Design: Level II – Applications (MENA).

"The HVAC Design Web-Training Series combines the basic understanding of current standards with the application of new technologies to achieve success," said Ayah Said, Manager of ASHRAE's Global Training Center. "Whether you're a designer, or facility manager, a recent graduate or an experienced professional who has taken on new design responsibilities, this training provides the resources needed to meet the ever-increasing challenges associated with achieving energy-efficient building performance."

Course descriptions and dates are as follows:

**HVAC Design: Level I - Essentials (MENA)**


This three-day training provides intensive, practical training for HVAC designers and others involved in the delivery of HVAC services in the MENA region. Participants will gain real-world practical design skills and knowledge that can be put to immediate use in designing and maintaining HVAC systems.

Six Part Training

- 18-20 January – 4-7PM Gulf Standard Time
- 25-27 January – 4-7PM Gulf Standard Time

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## **HVAC Design: Level II – Applications (MENA)**

Participants will gain advanced instruction on HVAC system designs for experienced HVAC designers or those who have completed the HVAC Design Essentials (MENA) training. This two-day training provides complex information about designing, installing, and maintaining HVAC systems, resulting in skills that can be put to immediate use. Gain an in-depth understanding of ASHRAE Standards 55, 62.1, 90.1, and ASHRAE's Advanced Energy Design Guides.

Four Part Training

- 1-4 February – 4-7PM Gulf Standard Time

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

Attending the HVAC Design Training Levels I and II provides guidance to prepare for the Certified HVAC Designer Certification (CHD). Registrants of HVAC Design Training Level I and II (MENA) or HVAC Design Level II only, will receive a 20% discount code to their CHD exam application. Registrants of any of the HVAC Design courses can purchase the CHD Study Guide at a discounted fee of \$63 (\$45 ASHRAE Member) instead of \$74 (\$56 ASHRAE Member). Click on the "CHD Certification" tab on the course page to learn more.

To register for this training series and for more information all Global Training Center course offerings, please visit [ashrae.org/globaltrainingcenter](http://ashrae.org/globaltrainingcenter).

## **2021 ASHRAE Virtual Winter Conference**

ATLANTA (December 1, 2020) – Registration is now open for the 2021 ASHRAE Virtual Winter Conference, February 9-11, 2021. The convenient online format of the conference will allow for global participation with a group of the world's leading presenters delivering timely and useful industry content.

"ASHRAE's Virtual Winter Conference will include three-days packed with learning and live discussions from top experts," said 2020-21 ASHRAE

President Charles E. Gullledge III, P.E. "This is the perfect platform and opportunity for built environment professionals to take advantage of the Society's strong technical content. The conference will provide us the opportunity to amplify ASHRAE's important research and resources to address the challenges of the times we're living in."

The conference will feature nearly 98 live and on-demand sessions with updates from Society leaders and virtual networking events. Technical sessions will address building performance, COVID-19, energy conservation, refrigerants, ethics, equipment and standards. Conference registration is now open at [ashrae.org/2021winter](http://ashrae.org/2021winter).

During the weeks leading up to the conference, ASHRAE will also conduct virtual business, committee and technical meetings that are typically held during onsite at the Winter Conference.

The cost to attend the virtual conference is \$249 for ASHRAE members (\$479 for non-members, which includes an ASHRAE membership for one year). For additional pricing, please visit [ashrae.org/2021winter](http://ashrae.org/2021winter).

Registration includes:

Tuesday, February 9 – Thursday, February 11 – Live Event

- More than 35 technical sessions presented live, including sessions scheduled for live participation from attendees in different time zones across the globe.
- Leadership Moments providing updates from Society leaders.
- Keynote presentation hosted by Women in ASHRAE.
- Live 30-minute forum sessions for interactive participation.
- Opportunities to interact with fellow attendees in 30-minute round table discussions and meet-ups.
- Recognition of more than 150 award recipients of ASHRAE's most prestigious society awards.
- Conference proceedings. Download the technical papers, conference papers and extended abstracts.

## **Post-Conference**

- 26 live Q&A chat sessions for on-demand paper session for the opportunity to chat with speakers scheduled on Friday, February 12.
- All sessions presented live will be recorded and available on-demand until August 11, 2022.
- Over 80 additional on-demand sessions accessible on your terms for 18 months. The technical program is comprised of eight tracks, exploring occupant comfort, energy systems use and examining how to improve HVAC efficiency on a global scale.

"Engineers and designers are being tasked to take closer looks at buildings and their systems to provide comfort to the occupants while also finding ways to reduce the impact on the environment and energy use," said Maggie Moninski, chair of the 2021 ASHRAE Virtual Winter Conference. "The 2021 Winter Conference attendees will be given a great opportunity to learn from some of the leaders of the industry with a focus on the foundations of the HVAC&R industry along with specialty topics like International Design and the Future of HVAC Work."

ASHRAE President Charles E. Gullledge III, P.E. will provide an update on the 2020-21 Society theme, The ASHRAE Digital Lighthouse and Industry 4.0." Members will be recognized for the industry and Society accomplishments. Major contributors to ASHRAE's Building campaign, RP campaign and scholarship donors will also be recognized.

Professional development hours can be earned for all on-demand sessions and more than 35 live sessions upon successfully completing a short quiz. Registration includes access to all the technical content on-demand for 18 months. Company packages are also available.

To learn more and to register, visit [ashrae.org/2021winter](http://ashrae.org/2021winter).

# Research Promotion

We had made it to the new year, so we are hoping to start it off rolling, we successfully made our 30% goal in December thanks to our donors, and we are ramping up to get to the full goal. Thank you for all of 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.

Thank you to the RP Campaign Committee for volunteering their time. This year's team includes: Aaron Dobson, Joe Della Valle, Frank Bann, and Michael Swayne.

A special thank you goes out to Longhill Energy for moving up to an ASHRAE Partner, as well as to

Ainsworth, Goodkey Weedmark and Parson's Refrigeration for their generous donations.

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.

The following list of current 2020-2021 RP Campaign donors will be provided in each monthly newsletter and updated monthly on the website, so donate quickly to see you name appear! The easiest ways to donate to the RP Campaign are through the links below.

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



**Research Promotion**  
**Adrienne Mitani**  
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Chapter, please contact me if you would like to make any arrangements for sending a check. [adrienne.mitani@smithandandersen.com](mailto:adrienne.mitani@smithandandersen.com) or 613-762-4260.



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

ASHRAE OVC link: <https://ashraeottawa.simplesignup.ca/en/6557/index.php?m=eventSummary>

ASHRAE Research to address Covid 19: <https://xp20.ashrae.org/secure/foundation/covid.html>



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 <p><b>TAMCO</b> INNOVATIVE DAMPER PRODUCTS WWW.TAMCODAMPERS.COM</p> <p><b>Frank Picchione</b> Regional Sales Manager</p> <p>t 800 561 3449 c 514 781 8381 f 800 668 8476 e frank@tamcodampers.com</p>	 <p><b>Steve Moons</b> Principal</p> <p><b>Total HVAC Inc</b> 4A – 1050 Baxter Road Ottawa, Ontario, Canada K2C 3P1 Tel.: 613-723-4611 Fax: 613-723-4677 <a href="mailto:steven@totalhvac.com">steven@totalhvac.com</a> Web: <a href="http://www.totalhvac.com">www.totalhvac.com</a></p>	 <p><b>Glenn Jones B.Eng LEED AP BD+C</b> Sales Manager - HVAC Systems</p> <p>1024 Morrison Drive Ottawa, ON K2H 8K7 613-356-1940 / Cell 514-951-7809 613-820-8111 / Fax 613-820-1414 <a href="mailto:gjones@trane.com">gjones@trane.com</a> <a href="http://www.trane.com">www.trane.com</a></p> 
 <p><b>WALMAR</b> <a href="http://www.walmarventilation.ca">www.walmarventilation.ca</a></p> <p>24 Gurdwara Road Nepean, Ontario K2E 8B5</p> <p><b>BRIAN EUSTACE</b> Engineer Liaison</p> <p>Tel: (613) 225-9774 x 252 Fax: (613) 225-2972 e-mail: <a href="mailto:brian@walmar.net">brian@walmar.net</a></p> <p>VENTILATION &amp; FILTRATION PRODUCTS</p>	 <p><b>Yorkland Controls</b> ENVIRONMENTAL SOLUTIONS</p> <p><b>Larry Gravelle</b> Tel: (613) 721-3301 Fax: (613) 721-4906 1-877-733-3833 <a href="http://www.yorkland.net">www.yorkland.net</a></p> <p><b>Honeywell</b> HVAC/BAS &amp; Vulcan <b>BELIMO</b> <b>Johnson Controls</b> FACILITY EXPLORER <b>SIEMENS</b> <b>KMC</b> <b>GREYSTONE</b></p> <p><i>Yorkland Controls represents leading control systems and component manufacturers. Integrated solutions for Lighting, Card Access, CCTV and Building Automation.</i></p>	



# 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**  
2020-2021 Publicity  
Committee Co-Chair  
**HTS Engineering  
Ltd.**

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

## 2020-2021

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Adam Moons

### President-Elect

Adrienne Mitani

### Treasurer

Ryan Dickinson

### Secretary

Celine Baribeau

### Governors

Joe Della Valle

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Joel Primeau

Evans Mutua

Trevor Thomson

### Past President

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Abbey Saunders

### Capital Communiqué

Evans Mutua

#### CRC

Evans Mutua

Donald Weekes

#### CTTC

Trevor Thomson

#### Grassroots

### Government Affairs

Adrienne Mitani

#### Financial

Sandy Taylor

#### Greeter

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#### Promotion

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Adam Moons

#### Program

Zarna Kakadiya

#### Publicity

Samir Elchomaa

#### Research

Adrienne Mitani

### Special Events

Colleen Fox

Rod Lancefield

Adam Moons

Michael Callaghan

Adam Graham

### Student Activities

Jayson Bursill

#### Table Top

David Michelin

#### YEA

Jordan Hansen

#### Website

Ryan Dickinson