September





DATE: Tuesday September 21, 2021

1600 - 1800 Hrs EST

LOCATION: Zoom Webinar

PROGRAM: Electrification of the Built Environment: Designing Canada's Future

Buildings and Communities

DESCRIPTION:

Communities are built on connections and interactions. As our buildings and cities become more intelligent, these connections and interactions will become critical in mitigating impact on climate change. The objective of this presentation is to provide insights to the deployment of smart distributed energy resources (DER) such as building-integrated photovoltaics (BIPV), heat pumps (HP) and electric vehicles (EV). In this presentation, the attendees will gain an understanding of (i) smart grid technologies, (ii) design and implementation challenges, and (iii) effective technical solutions.

SPEAKER: Costa Kapsis, Assistant Professor at University of Waterloo

Costa Kapsis is an assistant professor at the University of Waterloo in the department of Civil and Environmental Engineering. His research is focused on questions of energy efficiency, solar energy generation and energy transaction in the built environment. These research efforts aim towards the evolution of (i) building envelope technologies, (ii) climate resilient cities and communities and (iii) energy integration between the building and transportation sectors.

Over the past decade, Costa's significant contributions have been related to the assessment of net-zero energy smart technologies and their role in the electrification of our buildings and cities. Costa serves as an associate editor of the ASCE Architectural Engineering journal and the co-leader of the IEA PVPS Task 15 Subtask C on Building-Integrated Photovoltaics. He is an ASHRAE associate member and the vise-chair of TC 6.7 Solar and Other Renewable Energies.

Please register online at the link below

ASHRAE Associate/Affiliate/Member: \$5 Non-Member: \$10.00 ASHRAE Student: \$0 Non-MemberStudent: \$10.00

https://ashraeottawa.simplesignup.ca/en/9750/index.php?m=eventSummary

TECH SESSION: Understanding Refrigeration Compressors

DATE: Tuesday September 21, 2021

1500 - 1545 Hrs EST

LOCATION: Zoom Webinar

SPEAKER: Joël Primeau, P.Eng., ing., LEED AP, HBDP

Chief Mechanical Engineer for J.L. Richards &

Associates Limited



Past President
Joël Primeau
2021-2022
OVC Research
Promotion Committee
J.L. Richards &
Associates

E-mail: jprimeau@jlrichards.ca

DESCRIPTION: HVAC designers select equipment for their projects and often rely heavily on the equipment experts (i.e. their sales representatives). It's important that designers understand the inner workings of the major pieces of equipment they specify. Compressors are major components of the refrigeration system. How do they work? What types are available? How do we modulate their capacity? Are some types better, more efficient, more durable or reliable than others? This presentation will cover the various types of compressors available on the market and describe how each type of compressor is applied in our industry. There will be a short review of the refrigeration cycle at the beginning.

President's Message

Welcome to the 2021-2022 Ottawa Valley Chapter season! We have a great line up of activities for the year even as we are not quite as close to normal as we have all hoped. This will be another non typical year as we are continue to face restrictions on what and how we can interact. I would like to thank Adam Moons for taking us through a difficult year in 2020-2021 as chapter President and all of the volunteers who gave their time and effort.



President
Adriane Mitani
2021-2022
OVC President
Smith + Andersen

E-mail:

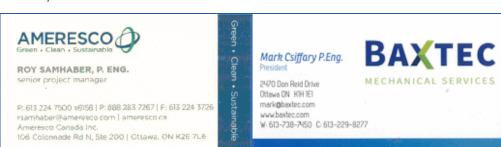
This year is going to have a lot of exciting new activities both online and in person as much as possible. We are also trying to balance this with what is

responsible to our membership and our understanding of the most current public health guidelines. Chapter meetings will continue be virtual for the moment, but we will be starting to have activities both in person and virtual and it will be up to you to decide what you are comfortable with and we will do our best to help set in person boundaries based on comfort levels. Events will include our upcoming golf event and later on a virtual beer tasting.

We will also be bringing in more interaction to our virtual meetings and events to bring our members together to see each other and socialize and build those connections that we have been missing for so long. Our goal for the year is to bring in more connections and to show the benefits of being a part of this great community as we start to offer more events as the year takes off.

This year has a fantastic team of volunteers for all of our committees, who are bringing some new ideas and events to the membership. Many are new volunteers are joining us, stay tuned to hear more! We also welcome Evans Mutua to the executive as Secretary, and Ryan Dickinson and Celine Baribeau as President-Elec and Treasurer respectively. To the Board of Governors we are welcoming Jayson Bursill and Matthew Moore, who was involved with the London ASHRAE Chapter for about five years before he has joined us here. As well as welcoming back to the Board: Michael Swayne, Joe Della Valle, Trevor Thomson as well as Joel Primeau in the past-president role.

Thank you to all of our volunteers this year and thank you to the membership for staying involved and active with us though these transitions and new types of events, and we hope to see you all very soon, whether in person or virtually!



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CRC Wrap Up

The 2021 Region II Chapter Regional Conference (CRC) was hosted virtually this year by the ASHRAE Quebec City chapter through various meetings held at the end of August.

The CRC is a meeting of the chapters within the region to discuss regional business as well as to meet and collaborate on ASHRAE chapter operations. Region II is from Ontario to the Canadian East coast, and each chapter sends representatives to learn and collaborate based on what other chapters are doing in their Chapters as well as establish goals for the coming year.

The following represented the Ottawa Valley Chapter at the CRC meetings:

- -Adrianne Mitani (President & CRC Delegate)
- -Ryan Dickinson (President-Elect & CRC Alternate & Government Affairs Chair)
- -Elizabeth Primeau (CTTC Chair)
- -Zacharie Lanthier (History Chair)
- -Josh Bourbonniere (Membership Chair)
- -Samir Elchamaa (Communication Chair)
- -Joel Primeau (Research Promotion Chair)
- -Noah Goddard (Student Activities Chair)
- -Jeremy Strong (Young Engineers in ASHRAE Chair)

Since this year was virtual the different committee sessions were individually scheduled, and with three business meetings with Delegate and Alternate. Daniel Redmond (CTTC) and Elizabeth Primeau (Student Activities) were present in the business meetings as the Region 2 Vice-chairs.

We presented the Ottawa Valley chapter successes and lessons learned from the year, as well as learned much from all of the other chapters. We would also like to acknowledge the following award winners:

- -Justin Berquist, NRC Ottawa for winning the Willis H Carrier award for outstanding paper for 32 years and under. For the paper: Feasibility of low cost CO2 sensors for DCV Part 1 label testing
- -Victor Wozniak, Aerospace Eng, Carleton received the Ottawa Valley Chapter Scholarship of \$3k.

Overall this year's CRC meeting was a great way to connect with the other chapters and see and learn from other chapters successes in online meetings, events, meeting structures, and in person activities for us to bring back to our chapter to make this year a success. Looking forward to seeing all of the great ideas that have come out from all of the various committee meetings!



President
Adriane Mitani
2021-2022
OVC President
Smith + Andersen

E-mail: adrianne.mitani@smithandandersen.com





Danny Dillon, MBA, GSC President & CEO

E: Danny.Dillon@DILFO.com T: 613.741.7731 | C: 613.880.8504 1481 Cyrville Road, Ottawa, ON K1B 3L7





Ross McIntyre, P.Eng.
Principal, Designated Consultant, Mechanical Engineer

1688 Woodward Dr., Ottawa, ON. Canada, K2C 3R8 Telephone: 613-727-5111 ext. 239 Fax: 613-727-5115 rossmc@gwal.com

Membership Update

Greetings Everyone,

It is now September, which means the nights get colder, the leaves begin to change, and best of all, another ASHRAE season is upon us!

This year I attended my second CRC. Although it was virtual again, it was another great experience. Many great discussion topics were circulated at this workshop. A question that was brought up, which I challenge you to ask yourself is, "What opportunities and learning experiences would I have missed out on if it weren't for ASHRAE?" Even if you don't have a concrete response right now, you will hopefully be more equipped to answer this question in 8 months.

Considering it is still not easy to predict how this ASHRAE year will play out, please understand how much we appreciate your continued support throughout these times. We are excited with the virtual meetings we have planned, and just like our in-person meetings in the past, we are confident we will be able to provide you with interesting and relevant information. Please don't hesitate to reach out to "e-introduce" yourself. I look forwarding to catching up with as many of you as possible over this ASHRAE year.

Below is a list of new members to our Ottawa Valley ASHRAE Chapter. Welcome aboard!

- Matt Rennie
- Scott MacDonald
- Bradford Gover
- Rebecca Letourneau-Duynstee
- Krzysztof J. Mierzejewski
- Joshua Reinhart
- Boris Pobric
- Carine Therese Dadzie
- Victor Moga
- Noah Goddard
- Sam Jordan
- Djordje Pajcin
- Karly Treleaven
- Curtis John Ireland
- Sagar Shah
- Abdelfatah AL Lahna
- Miroslava Kavgic
- Kellan Francis Hughes
- Mathieu Bertrand
- Olivier Brunet



Committee
Chair
Josh
Bourbonniere
2021-2022
OVC Membership
Committee Chair
TRANE

E-mail: josh.bourbonniere@trane.com

Student Activities

Ottawa Valley Student Activities are already ramping up as the fall approaches and students return to school. With the sunsetting of the mass distribution of the print versions of the Handbooks, we are collecting whatever handbooks anyone may have lying around to provide to new students as resources for their projects and to help demonstrate the value of ASHRAE membership. Please contact Jayson at the following email if you have any ASHRAE Handbooks you would like to donate:



Governor
Jayson Bursill
2021-2022
OVC Student
Activities Chair
Carleton
University

E-mail: jaysonbursill@cmail.carleton.ca

jayson.bursill@gmail.com.

We are also beginning recruitment of student members, so if you know anyone that is still a student please contact Student Activities at jayson.bursill@gmail.com or help them signup through www.ashrae.org. We intend to host (or participate in) a career fair in early 2022, and the mailing lists are the main way for us to reach out to students. In addition to the upcoming career fair, we have many other student-oriented events planned. Please make sure your student colleagues reach out to us in one of the many ways available so they can take advantage of what the student programming of the chapter has to offer!

News Update

Abstracts are now being accepted for the 2022 ASHRAE Annual Conference to be held in Toronto, Ontario, Canada June 25- 29, 2022, at the Sheraton Centre Toronto Hotel.

The conference will address the changes to buildings created by the pandemic and will present papers and programs that are pertinent to the future of the built environment.

"As we move into 2022 and face climate extremes and natural disasters along with the pandemic, buildings continue to be critical to our everyday lives," said Kristen Cetin, conference chair. "These commercial, industrial residential buildings in particular face an increasingly complex set of competing priorities to balance, as well as an increasing number of technologies and solutions to use and implement. The 2022 ASHRAE Annual Conference focuses on such diverse priorities and methods to address them, while considering the dynamic nature of such priorities over time."

The conference's technical program is comprised of eight tracks:

The "Buildings in the Aftermath of COVID-19" track highlights the significant impacts on how buildings are used, the priorities associated with building operations to ensure healthy environments for occupants and the transition to design and operation in the aftermath of the pandemic.

The "Connected Buildings, Connected Communities" track focuses on advanced smart building technologies and renewable energy resources, and the coordinated efforts in accomplishing improved building performance and demand flexibility.

The "IAQ, Energy Use, Comfort and Health of Sustainable Buildings" track features the following topics, and how they interact and impact another: Quality Environmental (IEQ), efficiency, energy use and health, occupant comfort and sustainability goals owner/operator priorities.

The "Cold Climate Building System Design, Operation and Resilience" track covers efforts and topics specifically focused on buildings, building systems and equipment in cold, arctic and subarctic climates. The track will also cover specific considerations for the building envelope and HVAC&R systems and resulting thermal and hygrothermal performance.

The "Professional Development" track will cover all aspects of business outside of engineering/technical applications and lends itself to interactive session types such as workshops and forums.

The "HVAC&R Systems and Equipment" track will focus on the development of new systems and equipment, improvements to existing systems and equipment and the proper application and operation of systems and equipment.

The "Fundamentals and Applications" track will provide opportunities for papers of varying levels across a large topic base. Concepts, design elements and shared experiences for theoretical



Committee
Chair
Elizabeth
Primeau
2021-2022
OVC Membership
Committee Chair
Total HVAC

E-mail: elizabethp@totalhvac.com

and applied concepts of HVAC&R design are included.

Finally, the "Research Summit" features active research, and the exchange of research findings, critical to the development of the HVAC&R industry and built environment. The track includes a partnership with ASHRAE's archival journal, Science and Technology for the Built Environment.

Abstracts (400 words or less) are due September 20, 2021. If accepted, final conference papers (8-page maximum) are due December 1, 2021.

addition, technical In papers (complete 30-page maximum "ASHRAE published in papers Transactions") are also September 20, 2021 and considered for Science and Technology for the Environment, ASHRAE's research journal.

Rod Lancefield P.Eng. LEED® AP Engineering Sales rod lancefield@fns.com C 613.851.1997 HTS Ottawa 830 Campbell Avenue Ottawa, Ontario K2A 2C2 T 416.661.3400 Ext: 2803 F 613.728.8032 Toll Free 1.800.850.0567

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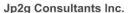




Joël Primeau P.Eng., ing., LEED AP, HBDP Associate Chief Mechanical Engineer

jprimeau@jlrichards.ca 343 804 4664

J.L. Richards & Associates Limited 864 Lady Ellen Place Ottawa, ON Canada K1Z 5M2



Mark MacIsaac, P.Eng. Mechanical Team Lead

1150 Morrison Drive, Suite 410 Ottawa, ON K2H 8S9 Tel.: 613,828,7800 x,213 Cell: 613,697,4721 Email: markm@jp2g.com



Research Promotion

I will be the Research Promotion chair this year, replacing Adam Moons who would have been the chair as the Past-President. We will run a traditional campaign this year, with fundraising events while soliciting donations from corporations and individuals via calls and emails.

My message for September is simple. I want to encourage all of you to donate as you register. It is the easiest way to do it. Your donation will count in the chapter's totals, yet it requires the least amount of effort by any chapter members. If you are planning on donating, and you definitely should, be a pal, and donate as you register.



Past President
Joël Primeau
2021-2022
OVC Research
Promotion Committee
J.L. Richards &
Associates

E-mail: iprimeau@ilrichards.ca

We can then ask our volunteers to chase new donors, and make better use of the time they give our chapter. Thank you. If you have any questions on how you can donate, please visit the ASHRAE.org website, and follow the RP or Research Promotion tabs. Reach out to me if you have any questions at all.

Joel Primeau RP Chair 2021-2022 Ottawa Valley Chapter jprimeau@jlrichards.ca

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

ASHRAE OVC link: https://ashraeottawa.simplesignup.ca/en/9710/index.php?m=eventSummary

ASHRAE Research to address COVID-19: https://xp20.ashrae.org/secure/foundation/covid.html



2021 ASHRAE Stroke Play Golf Tournament

Event Date

Friday, October 8th, 2021

Location

Metcalfe Golf Club 1956 8th Line Road Metcalfe, ON KOA 2PO Google Map



Governor
Joe Della Valle
2021-2022
OVC Board of Governors
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E-mail: jdellavalle @odellassoc.com

Registration Deadline

Friday, October 1st, 2021

https://ashraeottawa.simplesignup.ca/en/9759/index.php?m=eventSummary

Event Cost

(Green Fee and Power Cart) ASHRAE Member \$80.00 Taxes Included (Green Fee and Power Cart) Non-Member \$95.00 Taxes Included

Event Description - 2021 ASHRAE Stroke Play Golf Tournament

Ladies and Gentlemen,

Trevor and I are happy to announce the continuation of the ASHRAE Stroke Play Golf Championship! We are very excited to be able to host this event for the chapter. Please refer to COVID action plan below for guidelines we have in place to make this event as safe as possible.

As in years past this is meant to be a competitive event; however golfers of all skill levels are welcome!

Individual golf tournament in which we will follow RCGA Rules;

- There will be no flights or handicaps applied, and the lowest score on the day will win.
- There will be no Mulligans, do-overs, foot-wedges or gimmies, scorecard must be followed for hazards and out of bounds markings.
- Hand final scorecard in to Trevor or Joe.

Trophy will be awarded to lowest score after the round.

There is no formal meal afterwards, food and beverage can be ordered at clubhouse while rest of group wraps up and the scores are added.

We have secured 7 consecutive tee times starting at 10:00 am.

Space is limited to 28 golfers, first come, first served. Participants will be contacted before the tournament to be given their tee time and any last-minute details.

(I will check in we participants to try to accommodate preferred start times and groupings)

COVID ACTION PLAN

Event planning during COVID comes with some challenges.

Metcalfe Golf Club has implemented numerous changes to the way we operate to ensure the safety of our customers and staff members. Here is some important information to share with all members of your team.

Golf Instructions

- Please arrive between 15 to 20 minutes before your tee time.
- Carts will be given out at our welcome tent a maximum of 20 minutes before your tee time.
- Golfers with experience should play the tees that the normally play (new golfers should play the purple tees).
- You are not permitted to bring any of your own alcohol. We will have a beverage cart to serve you and also offer a delivery service.
- At the end of your round please return the carts to our cart return/sanitation area (maintenance area) & empty all of your own garbage. There is no tailgating or gathering in the parking lot permitted before or after golf.
- Please ensure to maintain physical distancing at all times

Food & Beverage Information

- After returning your cart please proceed to the tent patio for your meal.
- When entering the tent you will be asked for your contact into and assigned a table. You will also place your drink order at this time.
- Our tables are distanced from each other based on public health
- You must sit with your foursome (and if you wish, one other foursome at our larger tables)
- While on the patio you must remain seated and not mingle with other groups.
- Time on the patio is limited to 90 minutes per foursome and a maximum of three round of drinks.
- Our staff wear masks and practice hand hygiene

If you have any questions, or need more information, please reach out.

Contact & Support

Joe Della Valle 613-897-6604 jdellavalle@odellassoc.com

Trevor Thomson 613-913-1882 trevort@totalhvac.com



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.



Treasurer Celine Baribeau2021-2022
OVC **BPA**

E-mail: cbaribeau@bpa.ca

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 **Celine Baribeau** (<u>cbaribeau@bpa.ca</u>) 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.

https://ashraeottawa.simplesignup.ca/en/9709/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 \$275.00 for the year. Please contact **Rod Lancefield** at *rod.lancefield@hts.com* for more details.

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

https://ashraeottawa.simplesignup.ca/en/9711/index.php?m=eventSummary

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



Publicity
Rod Lancefield
2020-2021
OVC Publicity
Committee Co-Chair
HTS Engineering
Ltd.

E-mail: rod.lancefield@hts.com

Communique.

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

2020-2021 **President** Adrianne Mitani President-Elect Ryan Dickinson Treasurer Celine Baribeau Secretary **Evans Mutua** Governors **Evans Mutua** Joe Della Valle Mike Swayne Jayson Bursill Matt Moore Trevor Thomson **Past President** Joël Primeau Committees **Attendance** Sandy Taylor **Audit** Aaron Dobson Capital Communiqué Pat Melville **CRC** Jayson Bursill **Donald Weekes CTTC** Elizabeth Primeau **GAC** Ryan Dickinson **Financial** Sandy Taylor Greeter Mike Swayne **History** Zachary Lanthier Membership Promotion Josh Bourbonniere Nominations & **Awards** Steve Moons Abbey Saunders **PAOE** Ryan Dickinson **Program** Elizabeth Primeau **Publicity** Samir Elchamaa Research **Promotion** Joël Primeau Special Events Colleen Fox Rod Lancefield Abbey Saunders Trevor Thomson Student Activities Noah Goddard **Tabletop** David Michelin YEA Joe Della Valle Website Samir Elchamaa

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