



## Ottawa Valley Chapter

**DATE:** Tuesday April 16, 2019  
Social: 17:30, Dinner: 18:30, Program: 20:00

**LOCATION:** Centurion Conference & Event Centre  
170 Colonnade Rd, Nepean, ON K2E 7J5

**THEME:** Research

**PROGRAM:** Applications of Radiant Heating and Cooling Systems in Buildings

Alternatively to full air-conditioning **heating** and **cooling** may be done by water-based **radiant** heating and cooling systems, where pipes are embedded in the building structure (floors, ceilings, walls) or in the center of the concrete slabs in multi-story buildings. The present talk will discuss the possibilities and limitations of **radiant surface** heating and cooling systems. Differences in performance and application of surface systems compared to embedded systems are presented. Results from both dynamic computer **simulations** and field **measurements** are presented.

The paper shows that for well-designed buildings these types of system are capable of providing a **comfortable** indoor climate both in summer and in winter in different climatic zones. Various control concepts and corresponding **energy performance** are presented. To remove latent heat, these systems may be combined with an air system. This air system can, however, be scaled down with the benefit of improved comfort (noise, draught) compared to full air-conditioning. An added benefit can be reduced building height due to the elimination of suspended ceilings. Finally, surface heating and cooling systems use water at a temperature close to room temperature. This increases the possibility of using **renewable energy** sources and increasing the **efficiency** of boilers, heat pumps and refrigeration machines.

**SPEAKER :** Bjarne W. Olesen, Ph.D.  
Professor - Technical University of Denmark

**Master's Degree** in Civil Engineering, 1972. Ph.D., Laboratory of heating and Air Conditioning, Technical University of Denmark, 1975. In the period 1972-1990 **Research scientist** at the Laboratory of Heating and Air Conditioning. Part time affiliated as **product manager** at Brüel & Kjaer 1978-1992. **Senior Research Scientist**, College of Architecture, Virginia Tech. in the period 1992-1993. Since 1993 until January 2004 **Head of Research & Development** at UPONOR-VELTA GmbH KG & Co., Norderstedt, Germany. Since January 2004 **full professor** in Indoor Environment & Energy at the Technical University of Denmark and **director** of the International Centre for Indoor Environment and Energy, Technical University of Denmark. Awarded the **Ralph Nevins Award** (1982), **Distinguish Service Award** (1997), **Fellow Award** (2001) and **Exceptional Service Award** (2006) from **ASHRAE**. Awarded the **Medal of Honour** from the German Engineering Society (VDI-TGA, 2005) and International Honorary

Space is limited so please register online at the link below

Chapter Members: \$48.00	Guests: \$65.00
Student Members: \$35.00	Life or Fellow: \$48.00
Past President: \$0.00	Past President Companion: \$0.00

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

Member of **SHASE**, The Society of Heating, Air-Conditioning and Sanitary Engineers of Japan. **Vice president** of **ASHRAE** and Honorary member of AICARR (Italian Society for HVAC).

Is active in several ASHRAE-CEN-ISO-DIN standard committees regarding **indoor environment** and **energy performance** of buildings and HVAC systems. Has published more than **350** papers including more than **60** in **peer reviewed journals**.

## President's Message

As the **2018-19 ASHRAE** year continues into Spring, I would like to thank everyone for joining us at the **Centurion Centre** on **March 19<sup>th</sup>**. The presentation by **Roland Charneux** was fantastic and it was a great opportunity to see his project that won an **ASHRAE Society Technology Ward**.

**ASHRAE** Society Past President (2017-18) **Bjarne Olesen** will be presenting at our next meeting on **Tuesday April 16<sup>th</sup>** at the **Centurion Centre**. **Mr. Olesen** is a professor at the **Technical University** in **Denmark** and his long and distinguished career includes significant **research** and **development** in the **HVAC&R** industry. **Mr. Olesen** will present on the research into radiant heating and cooling systems.

On **Wednesday April 17<sup>th</sup>**, **Mr. Olesen** will also present a seminar

for the **ASHRAE OVC community**. The seminar is focused on the **European** approach to decreasing energy consumption in buildings. Europe has been particularly successful in the implementation of cutting edge **technology** to reduce energy consumption and this seminar is a great opportunity to discuss with an expert in the field that understands European and North American applications.

Please go to our website at [www.ashrae.ottawa.on.ca](http://www.ashrae.ottawa.on.ca) and click on the registration link to sign up for the program meeting and the seminar.

The theme for **April** is **Research**. **Aaron Dobson** and the **Research Promotion Committee** are working hard to raise funds for this year's campaign. It is through **Research Promotion** that **ASHRAE** generates the funds to invest in the research



**President**  
**Daniel Redmond**  
2018-2019  
OVC President  
**Carleton University**

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that is crucial to development of the **standards** and **guidelines** that we use in the **HVAC&R** industry everyday. It is important also to note that every dollar raised in **Canada** stays in **Canada** which furthers our local research endeavors.

Thank you and I look forward to seeing you soon!

please go to our website at [www.ashrae.ottawa.on.ca](http://www.ashrae.ottawa.on.ca) for more information and to sign up.

Thank you and I look forward to seeing you soon!

## ASHRAE Table Top Displays

What better way to display a new **product**, **existing line**, or share great **ideas** than to have a table-top display at our local **OVC ASHRAE** meetings? The **OVC** meetings provide a captive audience in the industry and exposure to **60+** people.

There are only **two** meetings left with limited space available for the remainder of this **ASHRAE** season so get your table before they are all gone!

Please contact **David Michelin** ([david.michelin@hts.com](mailto:david.michelin@hts.com)) to secure yours today!

Cost for a table-top is **\$225!**

*Payment is to be made through the online system prior to the date reserved.*

*Follow the link below:*

<https://ashraeottawa.simplesignup.ca/en/3654/index.php?m=eventSummary>



**Table Tops**  
**David Michelin**  
2018-2019  
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# 2018-2019 Research Promotion

Thank you very much for your continued support of **ASHRAE Research Canada!**

**ASHRAE Research** plays an important role to improve the quality of life and to answer tomorrow's questions through research today. For every dollar raised towards **Research Promotion** in Canada, four dollars are invested towards research projects in **Canada** by **ASHRAE Society**.

The **2018-2019 RP Campaign** Team includes: **Rob Lefebvre, Frank Bann, Michael Swayne, Georges Maamari, Abbey Saunders, Adam Graham** and **Dan Redmond**.

To date, the **RP campaign** has raised 61% of our \$34,300 goal for **2018-2019**. Thank you to everyone

who made this possible.

Thank you to **Walmart** for donating **Ottawa Senators** hockey tickets which helped raise \$611 towards the **RP campaign**.

The following list of current **2018-2019 RP campaign** donors will be provided in each monthly **newsletter** and updated on the **website**, so donate quickly to see your name appear!

Two of the easiest ways to make your donation to the **2018-2019 RP Campaign** are by clicking either of the links below.

Should you wish to donate by cheque, please make payable to **ASHRAE Ottawa Valley Chapter**. My contact details are below, and I



**President-Elect**

**Aaron Dobson**

2018-2019

OVC President-Elect

**Ainsworth**

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will gladly make arrangements to pick-up any cheques if needed.

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<b>Special Thank-You to the following Donors for their contribution</b> Darryl Boyce, Belimo Aircontrols (CAN), David Michelin, Chris Brown, Ross MacLaren, ProEng Consulting, Aerodynamics & Associates, T.P. Crawford		

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

ASHRAE OVC link: <https://ashraeottawa.simplesignup.ca/en/2594/index.php?m=eventSummary>



# What You Missed

The **March** program meeting of the 2018/2019 **ASHRAE** season was held at the **Centurion Conference & Event Center** on **Colonnade** road, and the theme for the evening was **Student Activities**. The meeting was attended by **forty-nine** guests, which consisted of **thirty-one** members, **eleven** guests, and **seven** students. The program for the evening was 1st Place **Technology Award** Winner 2018 **MEC Headquarters** in **Vancouver** presented by **Roland Charneux** of **Pageau Morel**.

President **Daniel Redmond** called the meeting to order, and introduced the Executive and Board of Governors as well as Society Vice President **Darryl Boyce** who was in attendance. Secretary **Adrianne Mitani** introduced the guests for the evening and Membership Chair **Andrew Brown** introduced the new chapter members.

President **Daniel Redmond** spoke about the current **Research Promotion** campaign which is currently at **58%** of our goal. **Adam Moons** announced the raffle was for **four** tickets to see **Senators** vs **Buffalo** March 26<sup>th</sup> with **two** parking passes donated by **Walmart**. **Abbey Saunders** introduced herself and **Steve Moons** as the chairs for **Honors, Awards and Nominations committee** this year. She introduced the executive lineup for next year and the currently open positions for **Secretary** and the **Board of Governors**. It was motioned to open nominations for the **2019-2020** season it was passed.

Governor **Peter Shaw-Wood** spoke about student activities including the outreach to the local universities at **Carleton** and **Algonquin**. Secretary **Adrianne Mitani** briefly spoke about the **ASHRAE Career Fair** in early **March**, the event was well attended with **fourteen** booths and over **150** students attended from a mix of

**Algonquin, Carleton** and **Ottawa University**.

The **curling bonspiel** was held **March 8th** and **\$1,400** was raised to a local charity and **\$150** to **ASHRAE** research. The winning team was **TotalHVAC** team 1 with **Mark Gall**. **Adrianne Mitani** spoke about the **March** seminar held **March 13<sup>th</sup>** presented by **Ralph Kison** on **Business Development**, as well as an upcoming seminar to be held **April 17<sup>th</sup>** to be presented by **Bjarne Olesen** of **Denmark** who was **ASHRAE** Society president last year. The seminar will be on **The European Approach to Decrease Energy Consumption in Buildings**.

The **table top** for the evening **Belimo**, presented by **Jenna Lyons**, who will be taking over the **Ottawa** area representation from **Clark Campbell**.

Dinner was an assorted buffet. The tickets were raffled off with **\$611** raised for **ASHRAE Research** and they were won by student member **Daniel Lowcay**. Also a bag donated by **Belimo** was also raffled off and won by **Darryl Boyce**.

President **Daniel Redmond** announced the speaker **Roland Charneux** and the award winning **MEC headquarters** building in **Vancouver**. **Roland** is from the **Montreal** office of **Pageau Morel**, and worked on the project from the original concept as part of an integrated design team.

The approach for the project was to use an integrated design project and to use many elements of **sustainable design**. With the integrated process brought all the consultants onboard at the beginning to give input into the orientation, shape and life cycle costs of the building by not having a sequential approach. This was to the projects favor to design a **high efficiency**



**Secretary**  
**Adrianne Mitani**  
2018-2019  
OVC Secretary  
**Smith+Andersen**

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building.

The owner decided to build a new building but it was for **employee comfort** in mind. The project goals were to include lots of **daylighting** with views to the exterior, high priority of **indoor air quality, thermal comfort, acoustical comfort**, and **energy efficiency**.

It was decided to passively reduce the energy consumption by using **daylighting**. The impact of this created an elongated building and limit the width of the building to get daylight to penetrate the interior of the building. Due to the amount of sunlight the next step was to reduce the **solar gain**. This was through **exterior overhangs, roller blinds** and **triple pane windows**. The walls and roof were chosen to have very high R values which helped keep the mechanical systems smaller.

Natural **hybrid ventilation** is used with three ventilation shafts with dampers that orient to the direction of the wind and send air down the shafts to the mechanical room. There it is filtered, then directed back to the raised floors which then pushes the floor air back up the shaft to be exhausted. There are back up fans that provide ventilation when there is no wind available.

**Radiant panels** with heating and cooling take care of **envelope loads**, while internal loads are handled by the air. **Thermal tanks** are used with a hot side and a cold side to extract heat at night and then use the cold water to cool during the

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day, with thermal regeneration for the tanks.

Overall the energy consumption of the proposed building was much less than the **baseline**. Due to the design the building load even out to be fairly constant and not have peaks of energy usage. With building envelopes getting bigger and new high insulated walls and windows there is no reason to have buildings with high heating and cooling loads. Buildings should be built for the future not for today, buildings to today's standards are obsolete as

soon as the project is finished, therefore we must make our buildings with the future in mind.

President **Daniel Redmond** thanked **Roland Charneaux**, and presented him a gift of a commemorative coin on behalf of the chapter. He reminded attendees of the **survey** which will be emailed. The next meeting is **April 16<sup>th</sup>** at the **Centurion Conference and Event Center**.

President **Daniel Redmond** also mentioned that the **CTTC 2019 Technology Awards** are now open

for submissions and the deadline is **May 2<sup>nd</sup>** for the chapter awards.

## Membership Update

Greetings Everyone,

This past **January** I had mentioned that our RVC for membership promotion **Geneviève Lussier** would be paying **Ottawa** a visit. As you know this did not happen, but I'm please to announce that Geneviève will be attending our **April** meeting. Please help me give Geneviève a warm welcome.

I would like to introduce and welcome the following new

members:

**Michal Bartko**  
**Mathieu Levesque**  
**Alex R Lapointe**  
**Karim Saadi Eng**  
**Sarah Abraham**  
**Zarna G Kakadiya**  
**Muhammad Waqas**  
**Jean Cardinal**  
**Mfonobong Etukudo**



### Membership Promotion

**Andrew Brown**

2018-2019  
OVC Membership  
Committee  
**Master Group**

E-mail: [aabrown@master.ca](mailto:aabrown@master.ca)

## YEA Archery Tag

Hi **OVC**!

I am excited to announce the date for our next **YEA** event! I have booked **BATL Axe Throwing** on **April 19<sup>th</sup>**.

An email will be sent to all members with a registration link and event details. The event is open to everyone so please share with anyone who may be interested.

If you have any questions about Axe throwing let me know. Thank you for your support!"



### YEA

**Jordan Hansen**

2018-2019

OVC - YEA

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# News Update

## Registration Is Open for the 2019 Annual Conference in Kansas City

**ATLANTA** (Mar. 5, 2019) – **ASHRAE** is pleased to announce that registration is open for the **2019 Annual Conference** in **Kansas City, Mo.**, June 22-26, at the **Kansas City Marriott** and **Kansas City Convention Center**. To register, visit [ashrae.org/kansascity](http://ashrae.org/kansascity).

The **five-day** conference includes sessions addressing current trends and technologies in the **HVAC&R** industry, as well as tours, social events and a keynote message from **Mike Massimino**, former **NASA** astronaut, advisor and author.

Additionally, the incoming **2019-2020 ASHRAE President Darryl K. Boyce, P.Eng.**, Fellow **ASHRAE**, Life Member, present the Society theme for the coming year during the President's Luncheon on **Monday, June 24**.

"With the global movement towards sustainable energy, the **HVAC&R** industry is ever-changing," said **Carrie Anne Monplaisir**, chair of the **2019 Annual Conference**. "We continue to face new challenges as we adapt our designs, codes, and technology to fit this constantly changing criteria. The **2019 ASHRAE Annual Conference** aims to address these challenges, and offer best practices, lessons learned, and innovative design strategies to be applied in a wide range of topics."

This conference's technical program will include sessions addressing engineering practices, research and professional development as follows:

- **Research Summit** – nearly one-quarter of the technical program is devoted to the presentation of current research in the **HVAC&R** industry. **Fifteen** of the **23** scheduled sessions present peer-reviewed papers on ongoing research with a total of **26** conference papers and **31** extended abstracts accepted for

presentation. The **Research Summit** includes a partnership with **ASHRAE's** archival journal, **Science and Technology for the Built Environment**.

- Another quarter of the technical program is comprised of the **Fundamentals and Applications** track and the **Systems and Equipment** in the **Built Environment** track.

- Nearly a third of the program advances knowledge and practices in three focused tracks: **Optimization in HVAC&R, Commissioning New and Existing Buildings** and **Modeling Throughout the Building Life Cycle**.

- The **Occupant Health and Safety** track covers a range of topics from ventilation to health.

- The **Professional Development** tracks presents sessions to sharpen individual, personal skills, including career growth, ethics, business development and liability.

**ASHRAE Learning Institute** (ALI) will offer full-day seminars and half-day courses and **ASHRAE** certification exams will be administered during the week. For complete information and registration for the **2019 ASHRAE Annual Conference**, visit [ashrae.org/kansascity](http://ashrae.org/kansascity).

## ASHRAE Certified HVAC Designer Launch

**ATLANTA** (Mar. 13, 2019) – **ASHRAE** announces that applications for the new **Certified HVAC Designer (CHD)** certification are now open. World-wide computer-based testing opens **Jun. 3**.

"For a long time, the certification committee had suspected an **HVAC Designer** certification would serve the needs of members, but the 'Industry Needs' survey data emphasized just how much need and



**Governor Jacob Hough**

2018-2019  
OVC Program  
Committee  
**Total HVAC**

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demand there are," said **Mark Fly, P.E.**, chair of the exam subcommittee. "Launching a new certification program is a commitment, but we're confident this is an investment from which **ASHRAE** members and their employees will benefit."

The **CHD** exam blueprint and eligibility requirements, which have been approved by the **ASHRAE Certification Committee**, can be found in the **CHD Candidate Guidebook**.

The **Certified HVAC Designer (CHD)** certification validates competency of the **HVAC Designer, working under the responsible charge of an engineer**, to design **HVAC** systems to meet building/project requirements, including:

- Load calculations
- Equipment selection and sizing
- Mechanical equipment room design
- Duct and piping design
- Layout for the development of **HVAC** plans for permit and construction

The exam follows a **2018** industry-wide job analysis study with data that was gathered from more than **1,200** respondents from over **60** countries. The **CHD** application is currently open with a practice exam launching **May 1**.

For more information, visit [ashrae.org/chd](http://ashrae.org/chd).



**Chris Harrison**  
President

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# 2019 Career Fair

The 2019 **ASHRAE Ottawa Valley Chapter Career Fair** at Carleton University on **March 15<sup>th</sup>** was a great success! We had over a dozen employers and more than 150 students in attendance.

Thank you to everyone who was present and those who sponsored the event. We hope to see you again next year!



## Student Activities

**Elizabeth**

**Primeau**

2018-2019

OVC Student Activities

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## Ottawa Valley ASHRAE Technology Awards

### Call for Submissions

#### WHY?

- Recognize local ASHRAE members for innovative designs proven through operation
- Communicate these designs to other ASHRAE members
- Highlight achievements of ASHRAE to other professionals and societies including building and facility owners

#### HOW?

- Short form ([click here](#)) for chapter level awards
  - Single page application form
  - 11x17" system schematic diagram
  - Two page narrative
- Long form ([click here](#)) for region and society level awards
  - Three page application form
  - Ten page report including schematics & diagrams

**Submissions due May 2nd, 2019**

**Contact: [Jacobh@totalhvac.com](mailto:Jacobh@totalhvac.com)**

#### Smith + Andersen

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# April Seminar

**DATE:** Wednesday, April 17, 2019

**LOCATION:** Master Group  
25 Northside Rd, Nepean, ON K2H 8S1



**Governor**  
**Jacob Hough**  
2018-2019  
OVC Program  
Committee  
**Total HVAC**

**TOPIC:** The European Approach to Decrease Energy Consumption in Buildings

E-mail: [jacobh@totalhvac.com](mailto:jacobh@totalhvac.com)

## SUMMARY:

According to the **European Energy Performance of Buildings Directive (EPBD)** all buildings (residential, commercial, industrial etc.) must have an energy declaration based on the calculated energy performance of the building, including heating, ventilating, cooling and lighting systems. This energy declaration must refer to the primary energy or CO2 emissions. The directive also states that the energy performance calculation must consider the indoor climate. This and other directives (increased use of renewable energy and energy labeling of energy consuming products) set the direction for energy performance of buildings and systems in Europe and they have been revised several times. Most recently a **Smart-Ready-Index (SRI)** is being developed to evaluate a building's readiness to be integrated in a **smart grid**.

To support the implementation of the directives in national building codes the **European Organization for Standardization (CEN)** has prepared a series of standards to cover the requirements for the indoor environment, energy performance calculations for buildings and systems, ways of expressing energy performance, inspection of heating-cooling-ventilation systems and conversion to **primary energy**. This talk presents the **EPBD (Energy Performance of Buildings Directive)** and other directives together with the related standards. The presentation will also show examples of activities in the US to increase energy efficiency and reduce energy use in buildings with focus on **ASHRAE** products and projects.

**SPEAKER:** Bjarne Olesen, Technical University of Denmark

## SPEAKER BIO:


**Master's Degree** in Civil Engineering, 1972. Ph.D., Laboratory of heating and Air Conditioning, Technical University of Denmark, 1975. In the period 1972-1990 **Research scientist** at the Laboratory of Heating and Air Conditioning. Part time affiliated as **product manager** at Brüel & Kjaer 1978-1992. **Senior Research Scientist**, College of Architecture, Virginia Tech. in the period 1992-1993. Since 1993 until January 2004 **Head of Research & Development** at UPONOR-VELTA GmbH KG & Co., Norderstedt, Germany. Since January 2004 **full professor** in Indoor Environment & Energy at the Technical University of Denmark and **director** of the International Centre for Indoor Environment and Energy, Technical University of Denmark. Awarded the **Ralph Nevins Award** (1982), **Distinguish Service Award** (1997), **Fellow Award** (2001) and **Exceptional Service Award** (2006) from **ASHRAE**. Awarded the **Medal of Honour** from the German Engineering Society (VDI-TGA, 2005) and International Honorary Member of **SHASE**, The Society of Heating, Air-Conditioning and Sanitary Engineers of Japan. **Vice president** of **ASHRAE** and Honorary member of AICARR (Italian Society for HVAC).

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# CURLING WRAP UP

The annual **ASHRAE Curling Bonspiel** took place on **Friday, March 8th** at the **Nepean Sportsplex**.

There were a total of **16** teams registered. All the participants had a great time and enjoyed the day. The winning team entered by **Total HVAC 1** consisted of: **Mark Gall, Langdon Liebrechts, Tom LeRoy** and **Josh Bates**. These gentlemen took home the trophy, as well as a nice bottle of wine for their skilled efforts.

As in the past years we have donated money to local charities which were deemed as worthwhile causes. Places like **The Salvation Army, Rogers House** and **The Ottawa Food Bank** are who we have given to in the past. This

year we are once again lucky enough to donate **\$1,400** which brings the total to **\$15,470.00** since **2010**. In addition to the charity donation, we were also able to donate **\$1050.00** to **ASHRAE Research** from the proceeds and the **50/50** draw that we ran. Thank-you to **Mastron Mechanical** and **Trane** for the prize donations.

We would also like to thank **Cedar Hill Golf and Country Club** for the banquet venue and fabulous meal they put on. Thank-you once again to **Stan Millross** for being our Emcee for the event.

We look forward to seeing everyone again next year.



## Special Events

**Colleen Fox**

2018-2019

OVC Special Events

**TRANE**

E-mail: [cfox@trane.com](mailto:cfox@trane.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.

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

### 2018-2019 Publicity Committee Co-Chair

HTS Engineering Ltd.

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



## Treasurer

**Adam Moons**

2018-2019

OVC Treasurer

**Master Group**

E-mail: [amoons@master.ca](mailto:amoons@master.ca)



## Publicity

**Rod Lancefield**

2018-2019 Publicity

Committee Co-Chair

**HTS Engineering Ltd.**

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

# 2018-2019

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