



Ottawa Valley Chapter

DATE: Tuesday March 19, 2019
Social: 17:30, Dinner: 18:30, Program: 20:00

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

THEME: Student

PROGRAM: MEC Headquarters Vancouver: 1st Place Technology Award Winner 2018

Mountain Equipment Co-op's head office, located southwest of downtown **Vancouver**, is a new construction with a **timber structure** and abundant windows. The **10,152 m²** building, with more than **375** employees, has a **4-storey** main wing, a **3-storey** secondary wing and a rooftop terrace. The building includes administrative offices, a call center, a sewing room, and laboratories.

This new headquarters incorporates a series of energy efficiency and **sustainable** development measures. These include wind-assisted natural hybrid ventilation, abundant triple-glazed windows with motorized blinds, a gray-water recovery system for flushing toilets, and wastewater collectors for showering, preheating domestic water and eight heat pumps with geothermal wells for heating and cooling. The new headquarters offers a reduction in **energy** consumption of around **43%**.

Last November, the project received **LEED-NC** certification at the **platinum** level, the highest level of distinction for a **sustainable building**.

The **ASHRAE Technology Awards** are international awards that recognize outstanding achievements in innovative design in **energy efficiency**, **occupant comfort** and **air quality**.

This is the **second** prize won by **Pageau Morel** for this project. In May 2017, the firm received the **AQME** at the **27th Energia** contest of the **Quebec Association for Energy Management**.

SPEAKER : Roland Charneux, P.Eng., M.Eng., LEED AP BD+C, ASHRAE Fellow & HFDP Director - Pageau Morel

Roland Charneux has always strongly focused on designing **energy-efficient** buildings. He is, without a doubt, an outstanding figure by virtue of his humility, righteousness, professionalism and passion for **engineering**. Throughout his career, he has left a significant legacy by mentoring and training a generation of young engineers. As a testament to his skills and the high quality of his projects, **Roland Charneux** has received more than **25** awards for projects he has worked on, including **nine** Technology Awards from the American Society of Heating, Refrigerating and Air-Conditioning Engineers (international awards).

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>

President's Message

As we start moving into Spring, the **2018-19 ASHRAE** season continues. I would like to thank everyone for joining us at the **Centurion Centre** on **February 19th** for the fantastic presentation by **Spencecr Fuller** that enlightened the audience about trends in refrigeration and the impacts of changing refrigerant technology on the **HVAC** industry.

Our **March** meeting is scheduled for Tuesday **March 19th** at the **Centurion Centre** where **Roland Charneux** from **Pageau Morel** will present one of his projects that won an **ASHRAE Society Technology Award**. **Roland** was the **principal engineer** behind the **Mountain Equipment Co-op** Head Office, New Construction project. The building included many innovative technologies and achieved **LEED Platinum** certification

Please go to our website at www.ashrae.ottawa.on.ca and click on the registration link to sign up.

The theme for **March** is **Students**.

The long term success of our industry relies on younger generations getting **engaged** and what better way for students to get informed about **ASHRAE** and to network with industry professionals than to attend the program meetings. We encourage all students to attend and also encourage our members working in the industry to consider **sponsoring** a student's admission to the program meetings.

Our Annual **Career Fair** is taking place on **March 5th** at **Carleton University**. Please feel free to contact **Elizabeth Primeau** (elizabethp@totalhvac.com) or **Chris Habets** (chris.habets@condair.com) for more information.

On **March 8th** we will be hosting our **Annual Curling Bonsel** at the **Nepean Sportsplex**. Dinner will follow at the **Cedar Hill Golf and Country Club**. For more information, please contact **Colleen Fox** at **613-808-4316** or cfox@trane.com



President
Daniel Redmond
2018-2019
OVC President
Carleton University

E-mail: daniel.redmond@carleton.ca

We are also excited to announce that on **March 13th** we will be hosting a **seminar** by **Ralph Kison** that is sure to be of tremendous benefit to all in our industry. This is a fantastic learning opportunity for **consultants, contractors, suppliers** and really anyone that is interested in **professional development**.

For all of the upcoming events, please go to our website at 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 still spots 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) to secure yours today!

Cost for a table-top is **\$225** and spaces are filling up quickly!

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
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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 57% of our \$34,300 goal for 2018-2019. Thank you to everyone

who made this possible.

Thank you to **Trane** for donating **Ottawa Senators** hockey tickets which helped raise \$475 towards the **RP campaign**. Congratulations to **Adam Moons** who was the lucky winner!

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



President-Elect
Aaron Dobson
2018-2019
OVC President-Elect
Ainsworth

E-mail: aaron.dobson@ainsworth.com

ASHRAE Ottawa Valley Chapter. My contact details are below, and I will gladly make arrangements to pick-up any cheques if needed.

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ASHRAE Partner \$5,000 - \$9,999	ASHRAE Associate \$2,500 - \$ 4,999	Major Donor Silver \$1,000 - \$2,499
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Major Donor Bronze \$500 - \$999	Major Donor Antique \$250 - \$499	Honor Roll Individuals \$100 - \$249
Modern Niagara Engineered Air	Aaron Dobson Daniel Redmond Mastron Mechanical Clément Marchand Climate Works Trane	Frank Bann Chris Frauley Adrienne Mitani Michael Swayne Steve Moons Celine Baribeau Jacob Hough Adam Moons Joe Della Valle Peter Shaw-Wood Ryan Dickinson Abbey Saunders Stephen Harrison Stephen Pope ProEng Consulting
Special Thank-You to the following Donors for their contribution Darryl Boyce, Belimo Aircontrols (CAN), David Michelin, Chris Brown, Ross MacLaren		

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 February 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 **Chapter Technology Transfer Committee (CTTC)**. The meeting was attended by **forty-three** guests, which consisted of **thirty two** members, **nine** guests, and **two** students. The program for the evening was **Refrigerant Review** presented by **Spencer Fuller** of **Johnson Controls**.

President **Daniel Redmond** called the meeting to order, and explained that the **ASHRAE** meeting was moved due to the **ASHRAE Winter meeting**. He introduced the **Executive** and **Board of Governors**. Secretary **Adrienne Mitani** introduced the guests for the evening and **Michael Callaghan** introduced the new chapter members.

President-Elect **Aaron Dobson** spoke about the current **Research Promotion** campaign and the evening raffle, which was for **two** tickets donated by **Trane** for an **Ottawa Senators** hockey game against **St Louis**.

Governor **Jacob Hough** announced that the **CTTC 2019 Technology Awards** are now open for submissions and the deadline is **May 2nd** for the chapter awards.

Elizabeth Primeau announced the upcoming **February YEA** event for **archery tag** will be held **Friday**, and the upcoming **Career Fair** being held at **Carleton** on **March 5th**, there are a few booths still available, and all students are welcome.

President **Daniel Redmond** briefly spoke about the **ASHRAE curling bonspiel** on **March 8th** at the **Nepean Sportsplex** is almost full and people should register soon. **Adam Moons** spoke about the

upcoming **seminar** presented by **Ralph Kison**, who does the **Young Engineers in ASHRAE Leadership Weekends**, for a one-day professional development crash course on **March 13th**.

Table tops for the evening were **Johnson Controls** and **TotalHVAC**. For **Johnson Controls** was presented by **Evans Mutua**, who spoke about the **York** and **BAS** solutions. **Andrew Douma** presented the **Aaon** table for **TotalHVAC** about their broad range of **HVAC** equipment line including **roof top units** and **packaged units**.

Dinner was an assorted **buffet**. The tickets were raffled off with **\$475** raised for **ASHRAE** Research. Tickets were won by **Adam Moons**.

President **Daniel Redmond** announced the speaker **Spencer Fuller** and the topic of **Refrigerant**. **Spencer** is a **Regional Sales Manager** specifically for **Chillers** with **Johnson Controls Inc.** He is responsible for ensuring the **chiller** profile including both water and air-cooled chillers meet current and future customer requirements.

Spencer started by addressing a common misconception that **R-134A** is being phased out. It is not currently being phased out however there is some legislations that will require new equipment sold cannot run on **R-134A** or the amount being used will be controlled.

The evolution of **chillers** starts with on/off systems, to part load systems, to modulating and **magnetic bearing** chillers. These changes have been driven by improving efficiencies, environmental, safety and reliability, availability and finally costs. The **Montreal Protocol** targeted **Ozone Depletion Potential (ODP)** which has phased out refrigerants like **R-22**, however



Secretary
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2018-2019
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ODP alone is not enough, and now lowering the **Global Warming Potential (GWP)** has led to targets for **HFC's** and **HFO's**. Unlike for **ODP** there is no agreed upon global approach, different jurisdictions handle the problem differently.

Most legislations are focused on phasing down refrigerants like **R-134A**, not phasing out. This means reducing consumption at percentage targets. Often this leads to lowering the economic viability to produce the product as the demand drops. These refrigerants are used by large industrial processes, and as they change to new refrigerants **HVAC** equipment suppliers will be forced to change to newer more readily available **refrigerants**.

Alternative refrigerants that are being considered must be considered in terms of **flammability, toxicity, capacity** and **GWP**. These include:

- **Ammonia** which has a high toxicity and high degree of safety measures to be in place
- **Propane**, similar to ammonia has safety requirements, but is popular in Europe.
- **CO₂**, which operates at such a high pressure that it cannot be used for chillers.
- **Mildly flammable refrigerants**, however there is currently no code for these, and government standards are required to be able to start using.

Consideration needs to be given if the refrigerant leaks then what the effect will be the environment, however there are also indirect

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impacts if a lower **GWP** refrigerant is used with a lower capacity than the energy usage to get the same capacity will increase and possibly the carbon impact due to electricity usage is higher than the impact of higher **GWP** refrigerant.

Spencer discussed viable options for **refrigerants** that can be dropped into existing systems, with the pros and cons typically that the new **refrigerant** would have less capacity or are mildly flammable.

For **Canada**, **ODSHAR** regulation calls for the phasing down of

refrigerants, reducing the amount of chillers being sold that use these refrigerants by limiting the **GWP** of **refrigerant** used in a piece of chillers as of 2025. In **December 2019** no new chillers can run on **R-123**. In **December 2024** no new chillers can be manufactured with **HFCs** in **Canada**, including **R-134A** or **R-410A**. There is currently no drop in for **R-410A**, which is the uncertainty of how that will be handled in the future. As per the **Kigali Amendment** there is a phase down of **HFCs** consumption based on the baseline in reduction steps from 2024 to 2045. **Automotive** will be

one of the largest shifts off the **HFC** refrigerants, versus the **HVAC chiller** industry will be a very small portion of the shift off of **HFCs**.

President **Daniel Redmond** thanked **Spencer Fuller** gave him both a gift of a commemorative coin on behalf of the chapter. He reminded attendees of the survey which will be emailed, and about an upcoming **Better Buildings Breakfast** on **February 1st** and that **ASHRAE** members are now eligible for a discounted rate. The next meeting is **March 19th** at the **Centurion Conference and Event Center**.

2019 Career Fair

The 2019 **ASHRAE Ottawa Valley Chapter Career Fair** will be held at **Carleton University** again this year. We are looking for **local** companies and industry partners who want to connect with local students from **Carleton, Algonquin, uOttawa, La Cité Collegial, and Cégep de l'Outaouais**. It will be a great chance to meet and network with students for summer or full-time employment. Please note that there is no AV available for booths, but we encourage you to bring any **posters** or **banners** that you may have. The **ASHRAE Ottawa Valley Chapter** annual student career fair will be

held in the **Fenn Lounge** at Carleton University on **Tuesday March 5th** from **3:00 pm to 6:00 pm**.

There are two options to participate:

- You can purchase a **booth** and **sponsor** the event for **\$300**, or
- If you cannot attend the event, you can have your name in the **flyer** and **sponsor** the event for **\$150**

If you are interested in participating please register online on the OVC website.

If you have any questions please feel free to contact myself



Student Activities

Elizabeth Primeau

2018-2019

OVC Student Activities

Total HVAC

E-mail: elizabethp@totalhvac.com

(elizabethp@totalhvac.com) or Chris Habets (chris.habets@condair.com) for more information.

Please let Chris Habets know if you are interested in publishing a specific **job opening** for the career fair.

Membership Update

Greetings Everyone,

March for me is going to be a push for membership retention. We will be conducting a phone marathon to accomplish this. If you are looking to get more involved and don't know where to start this is an easy entry point. As always, please speak with your colleagues regarding the benefits of **ASHRAE**. Together we can continue to grow our chapter.

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

Mathieu Levesque
Alex Lapointe
Karim Saadi
Sarah Abraham



Membership Promotion

Andrew Brown

2018-2019

OVC Membership Committee

Master Group

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News Update

HRAE Wraps Up Successful 2019 Winter Conference, AHR Expo

ATLANTA (Feb. 5, 2019) – **ASHRAE** has announced a call for presentations for the **2019 ASHRAE Building Performance Analysis Conference** to be held September 25-27 at **The Curtis Hotel** in **Denver, Colo.**

"Building performance modeling is an important, yet complex concept," says **Krishnan Gowri**, conference chair. "The topics presented at this conference will prepare building professionals to make better decisions through the use of performance assessments and by the way that performance analysis impacts actual buildings."

Building modeling professionals and practitioners are invited to submit presentation proposals between **20-30 minutes** in length or **90 minute** panel and seminar sessions. Proposals can cover a broad range of topics addressing the needs of the building performance modeling community. **Creative** and **interactive** presentation formats are strongly encouraged.

The 2019 Building Performance Analysis Conference requests the following submission types:

- **Individual** presentations on projects, research or career/business development topics.
- **Panel** with 3-4 industry experts on a current topic of interest or team case study.
- **Seminar** Session with a chair and 1-4 speakers on one of the

following topics.

Topic categories include:

- **Innovation & Integration**
- **Modeling, Modeling, Modeling**
- **Dealing with Data**
- **Back to Business**

Presentation proposals are due **Mar. 15, 2019**. If accepted, presentations will be due **Aug. 15, 2019**. For a full list of presentation topics and more information, visit ashrae.org/buildperform2019.

ASHRAE, UN Environment Accepting Entries for Lower Global Warming Potential Award

ATLANTA (Feb. 1, 2019) – **ASHRAE** and **UN Environment** are accepting entries for a jointly established international award program to promote the innovative designs, research and practices of low-GWP alternative **refrigerants** and related technologies.

The **Lower-GWP Refrigeration and Air-Conditioning Innovation Award** annually recognizes people who have developed or implemented innovative technological concepts applied in developing countries to innovative designs, research and practices that minimize global warming potential (GWP) through refrigerant management.

"We look forward to seeing entries from innovators who are committed to sustainability through the development and implementation of a new generation of **low-GWP**



Governor Jacob Hough

2018-2019
OVC Program
Committee
Total HVAC

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efficient solutions," said 2018-2019 **ASHRAE** President **Sheila J. Hayter, P.E.**

First Place and Honorable Citation awards are made in two categories:

- **Residential Applications**
- **Commercial/Industrial Facilities**

The winners in each category will be selected based on innovative solutions for designs, practice or research using lower-GWP technologies. The selection will take into account the following criteria:

- **Extent of need;**
- **Innovative aspects in transforming conventional practices;**
- **Technical replicability to developing countries; and**
- **Economy feasibility to developing countries.**

Entries for the **2019** awards will be accepted until **May 15, 2019**. Winning projects will be publicized by both organizations, and first place recipients will receive a stipend to receive their award at a **UN Environment event**.

For more information, visit ashrae.org/lowergwp.

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President

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Call For Nominations

As chairs of the **Awards & Nominations Committee**, **Abbey Saunders** and I want to address the members of **ASHRAE OVC** for the upcoming nominations period. The nomination committee is responsible to build the chapter leadership of tomorrow. We help to shape the direction of the chapter, in that we try to ensure the very best people are in position to advance our local chapter and respond to the needs of its **members**.

The time has come when we need to consider the nominations for next year's **Executive** and **Board of governors**. On behalf of the **Nominating Committee**, I'm pleased to announce the following eligible members to hold office as the **Chapter Executive** for 2018-2019, and the positions for which we are seeking nominations: **President: Aaron Dobson**, **President-Elect: Adam Moons**,

Treasurer: Adrienne Mitani, **Secretary:** Open-nominations invited.

Board of Governors: Nominations are also invited for positions on the Board of Governors, although the number of available positions is not yet determined as the committee gauges the interest and availability of the existing Board members to return for another term.

To complete the nominations process, we will also be asking for nominations from the floor at the **March** Chapter meeting. To be considered for the **Board of Governors**, nominees must be Chapter members in good standing with Society and must have consented either orally or in writing to have their name put forward. The election to Chapter officers is a distinct honour bestowed on **ASHRAE** members by their peers, and in anticipation of their dedication



Past President Steve Moons

2014-2015
OVC President
Total HVAC

E-mail: stevem@totalhvac.com

to the continued success of the **Chapter**.

Final recommendations for the available positions on the **Executive** and the **Board of Governors** will be made by the **Nominating Committee** in the coming weeks and will be announced at the **April** Chapter meeting, with the installation at the **May** Chapter meeting.

Thank you for your participation in this important step in ensuring the future success of the **Ottawa Valley Chapter**.

YEA Archery Tag

Hi **YEA!**

We had our second **YEA** event of the year at **Archery Tag** and had a good turnout, with fun had by all! Some of the members went to Hometown Grill after to cool down over snacks & drinks. Thank you again to **The Master Group** for sponsoring the event and to everyone who came

out!

These social events are a great way to meet other members and others within the industry. We are hoping to have a few more of these events over the course of the year so keep an eye on the chapter website for any updates. If you are interested in sponsoring an upcoming event, please don't hesitate to contact me



YEA

Jordan Hansen

2018-2019
OVC - YEA

Goodkey Weedmark & Associates

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for details.

Thank you all for the continued support.





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

Smith + Andersen

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March Seminar

DATE: Wednesday, March 13, 2019
LOCATION: Master Group
25 Northside Rd, Nepean, ON K2H 8S1
TOPIC: Business Development



Governor
Jacob Hough
2018-2019
OVC Program
Committee
Total HVAC

E-mail: jacobh@totalhvac.com

SUMMARY:

This **seminar** has been tailored to offer the attendees a comprehensive look at methods to improve **customer relations**, and an appreciation for the **business development** process. They will also be exposed to the essential **"soft skills"** that will enable them to engage with clients to conduct a **needs analysis**, through effective **qualifying** and **discovery**, to reveal the client's requirements. This will help to enable them to prepare a value-based **solution**.

This seminar presents great value to **ASHRAE** members, but is not specifically targeting the **HVAC** community, as much as the **construction** industry at large, and the various components that all require an advancement of **business skills**. It is geared towards those who intend to work towards stronger appreciation of the responsibilities and roles taken on while advancing through their profession, and the best ways to optimize their talents. From the initial roles of concept and application, through the final sign off on a project, any person involved in the industry can benefit from the tools being offered in this seminar

Business development is often viewed as something you "do to" your clients or prospects. The most successful, sought after and rewarded business developers are those who can capture the imagination of their clients and lead them to achieve new and inspired outcomes and solutions through engaged conversations.

Two critical factors are required for success – a business development "Process" and the critical soft "Skills".

Ralph will conduct an interactive session and present his proven business development model that has enabled engineering firms to secure profitable projects, retain clients and build their **brand**. He will also equip attendees to improve their communication skills including strategic questioning, active listening, emotional intelligence and empathy which lead to deeper connection, trust and greater **profit!**

SPEAKER: Ralph Kison, Growth Through Learning

SPEAKER BIO:

Ralph Kison, President of **Growth Through Learning Inc.** works with individuals, organizations and professional associations across **North America** in **business-to-business** and **professional services** environments.

His career includes over **28** years working with engineering, architectural, environmental services, geotechnical, construction, distribution and insurance firms to improve their **business development** and **sales effectiveness**. He frequently facilitates partnering and lessons learned sessions for project teams in addition to providing services focused on employee and organizational development in the areas of **leadership coaching** and **succession planning**.

Ralph is a member of **ASHRAE**.

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2021 OTTAWA CRC

ASHRAE is comprised of **Chapters** and **Regions** within **Society**. The **Ottawa Valley Chapter** is part of **Region II**, along with all other Canadian Chapters East of **Winnipeg**. Each year, the Regions hold Chapter Regional Conferences (or CRCs) for the regional leadership teams to work with the chapter leadership teams to resolve issues and improve the operations of the chapters and of the region.

Often the CRCs are also a great opportunity to provide critical **training** to people in chapter committee chair positions.

The **Ottawa Valley Chapter**

sends delegates to the **Region II CRC** each year and I am happy to announce that we will be hosting the CRC in **August of 2021**. It may seem a bit early to be thinking of the event however we will begin planning for the event in early to mid-2019.

The last time a **CRC** was hosted by **Ottawa** was in **2012** and it was a tremendous success. Not only did the **CRC** meet its goals and objectives, but hosting the conference also provided a great opportunity for **Ottawa Valley Chapter** members to get involved with organizing and delivering a successful conference.



President
Daniel Redmond
2018-2019
OVC President
Carleton
University

E-mail: daniel.redmond@carleton.ca

The upcoming **2021 CRC** will provide a fantastic opportunity for **Ottawa Valley Chapter** members to get involved. We are looking for interested people to act in the capacity of **conference chair** or **co-chair**. If you are interested in getting involved or know someone that you think would be interested please let me know.

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) 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 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



Treasurer

Adam Moons

2018-2019

OVC Treasurer

Master Group

E-mail: amoons@master.ca



Publicity

Rod Lancefield

2018-2019 Publicity

Committee Co-Chair

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2018-2019

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Nominations & Awards

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Research

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Aaron Dobson

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Georges Maamari

Special Events

Colleen Fox

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Rod Lancefield

Adam Moons

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Activities

Elizabeth Primeau

Table Top

David Michelin

YEA

Jordan Hansen

Website

Ryan Dickinson