



Ottawa Valley Chapter

DATE: **Thursday January 24, 2019**
Social: 17:30, Dinner: 18:30, Program: 20:00

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

THEME: **YEA**

PROGRAM: **Indoor Agriculture**

Much of the **cannabis** industry is being poorly serviced by inefficient, high cost and underperforming **HVAC** systems. In this session, **Geoff Brown** will review the science, math and industry trends behind smart **HVAC** decision for an indoor grow. These are unique buildings, and the misapplication of **HVAC** technologies has gotten many buildings into trouble - including full crop loss, which can be a million dollars or more at a time. We will counter some of the pervasive **myths** in the industry, some existing **solution bias** amongst **consulting engineers** and help to ensure you're armed with everything you need to get it right. There is a lot of outdated thinking and misinformation in this industry, and we will ensure that you're empowered to make the right design decisions and recommendations for your customer.

SPEAKER : **Geoff Brown**

Geoff Brown is the **Business Unit** and **Brand Manager** for the newly launched **Agronomic IQ Series of Dehumidifiers**, the most advanced temperature and humidity control equipment in the grow room industry. The Agronomic IQ product line is designed and manufactured by **Dehumidified Air Solutions (DAS)**, the largest and most innovative dehumidifier company in the world. Geoff started his HVAC with **Seresco Technologies** (also a DAS company) and has honed his expertise over **15** years dealing in every aspect of the dehumidification industry. Prior to being selected to manage the Agronomic IQ division, Geoff was a **senior sales manager** and **sales engineer**, who successfully consulted on and managed dehumidification projects of every size throughout **North America**.

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

I hope everyone has had a great holiday with friends and family and I would like to wish everyone a **Happy New Year!**

As the **2018-19 ASHRAE** season continues into **2019**, I would like to begin by thanking everyone for joining us at the **Centurion Centre** on **November 20th**. We had some special guests in attendance including **ASHRAE President Sheila Hayter, ASHRAE President-Elect Darryl Boyce, ASHRAE Staff Alice Yates** and our **Region II DRC Jeff Clark**. **President Hayter** presented her theme "**Building Our New Energy Future**" and underscored what we need to be thinking about and the we need to act now.

The program topic was presented by **Kurt Monteiro** from **Smith + Andersen** as he provided a technical overview of the **Humber River Hospital** project. This project won an **ASHRAE Society Technology Award** and the presentation proved to be very informative and generated a number of great questions from the audience.

Our **bowling social** took place on **November 21**. This event was great

fun and another opportunity to get to know our **ASHRAE** peers a little better. Thanks to **Adam Moons** for organizing.

The **January** program meeting is scheduled for **Thursday January 24th** at the **Centurion Centre** and we have a fantastic program lined up. **Geoff Brown** from **Dehumidified Air Solutions (DAS)** will review the science, math and industry trends behind smart **HVAC** decision for **indoor agriculture applications**. The program will cover some outdated thinking and misinformation in this industry to ensure that people are empowered to make the right design decisions for their projects.

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

The theme for **January** is **YEA** and I am hoping to see many of our young members in attendance. Student participation and mentorship of **YEA** members in **ASHRAE** is important to facilitate new, bright minds to join and remain in our industry. The long term success of our industry relies on younger generations getting engaged and what better way for students to



President
Daniel Redmond
2018-2019
OVC President
Carleton University

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get informed about **ASHRAE** and to network with industry professionals than to attend the program meetings. We encourage students to attend and also encourage our members working in the industry to consider **sponsoring** a student's admission to the program meetings.

The **ASHRAE Winter Conference & Expo** is quickly approaching in **Atlanta** from **January 12** through **January 16, 2019**. I would definitely encourage anyone that has not been to one of these annual meetings to plan attending in the coming years. Not only does the **ASHRAE Winter Conference & Expo** coincide with the largest trade show in our industry, **ASHRAE** also offers a number of courses and learning opportunities throughout the event.

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.

We are currently booking table-tops for the **February** and **March** meetings. 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, so book your table-top **today!**

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 42% of our \$34,300 goal for 2018-2019. We have exceeded our

target of 30% by **December 31st**. Thank you to everyone who made this possible.

Thank you to **Clément Marchand** and **Climate Works** for donating Ottawa Senator hockey tickets which helped raise \$720 towards the **RP campaign**. Congratulations to **Ross McIntyre** and **Rod Lancefield** who were the lucky winners!

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.

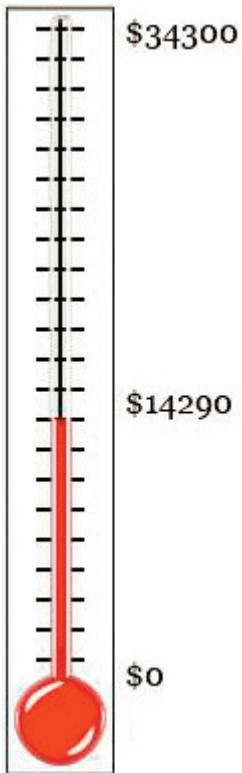


President-Elect
Aaron Dobson
2018-2019
OVC President-Elect
Ainsworth

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Should you wish to donate by cheque, please make payable to **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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Special Thank-You to the following Donors for their contribution Darryl Boyce, Belimo Aircontrols (CAN), David Michelin, Longhill Energy, Chris Brown		

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 November 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 **Research Promotion** and **Donor Recognition**. The meeting was attended by **seventy-four** guests, which consisted of **sixty-three** members and **eleven** guests. The program for the evening was the **Humber River Hospital Design** presented by **Kurt Monteiro** from **Smith and Andersen**, along with a Presidential address by **ASHRAE Society President Sheila Hayter**.

President Daniel Redmond called the meeting to order, and introduced the Executive and Board of Governors as well as the guests from **ASHRAE Society** and **Region** including **ASHRAE Society President Sheila Hayter**, **Society President-Elect Darryl Boyce**, **Alice Yates**, **Director of Government Affairs**, and **Jeff Clark DRC** for **Region II**. Secretary **Adrienne Mitani** introduced the guests for the evening. Membership Chair **Andrew Brown** introduced the new chapter members.

Student Activities Chair **Elizabeth Primeau** welcomed the students from **Cégep de l'Outaouais**. She also spoke about the presentation by President **Sheila Hayter** at **Carleton University** the following evening and an upcoming event with the **Earl of March** high school tour at **Modern Niagara**. Table tops for the evening were **Hydro Ottawa** and **S+P** by **Tim Sutton**. **Hydro Ottawa** spoke about their ongoing programs and invited people to get in contact with them about new projects and retrofits. **Tim** spoke about their line of commercial and residential ventilation products.

Michael Callaghan announced the upcoming **ASHRAE Bowling** event

the following evening on **November 21st**. President-Elect **Aaron Dobson** spoke about the current **Research Promotion** campaign and the **raffle**, with two draws for the evening. One for two tickets to the **Ottawa Senators vs Columbus** donated by **Climateworks**, as well as four tickets for **Ottawa vs the New York Rangers** donated by **Clement Marchand**. Won by **Ross McIntyre** and **Rod Lancefield**.

Dinner was salad as well as chicken with vegetables and potatoes with cake and coffee served for dessert.

President **Daniel Redmond** announced Society President **Sheila Hayter** to present her Presidential address. Sheila introduced her presidential theme of **Building our New Energy Future**, and our responsibility for the **energy** that we use. She spoke about her background with her father **Dick Hayter** who was **ASHRAE president** from **1995** for **1996**, as well as her work with **NREL** and the **Renewable Energy Laboratory**. **President Hayter** emphasised how our decision making impacts the environment and it is our responsibility to become aware. **ASHRAE's** role in this includes a new **ASHRAE** primer, the **New Energy Future**, available on line, to help building professionals for practical look at energy. The buildings are the number one use of electricity, which is why **ASHRAE** needs to be a leader to promote more **energy efficient** buildings with new guidelines and expanding the Distinguished Lecturer (DL) program to include **Smart Grid** and other topics.

President Hayter also is focused on creating new networks with other organizations, including **cyber security, wellness, and resilience**. She spoke also of how **ASHRAE** chapters can get involved and take a leadership role through our expertise



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in building design.

President **Daniel Redmond** announced the program topic and introduced the speaker, **Kurt Monteiro**, who is a past recipient of an **ASHRAE Technology Award** for **new healthcare facilities**. **Kurt** started with giving an overview of the site, which was very large at **1.8 million square feet**, with the largest green roof in **Canada** and two parking garages. The idea of the project was **Lean, Green and Digital**, to increase **automation**, limit the amount of **movement** required across the building and standardize and to use **technology** during construction to minimize costs. The building was designed and constructed in **44 months**, which meant that equipment was procured during **100% design development** stage, this required flexibility to be built into the design for the owner and well as changes during the course of the project.

Green was done by including sustainable elements, this included excellent indoor air quality and a high level of infection control that was required for the building occupants. It also included high performance building envelope, optimized heating and cooling plants, effective heat recovery as well as high performance dynamic glass. **Controls optimization** for the cooling and heating plants were necessary to meet energy targets for the building. This included **VSD's** as well as **heat recovery chillers**.

On the **ventilation** side, the air handling units were installed in

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parallel with each unit sized at **100%** but would work together at low velocity with **oversized ductwork** to reduce fan power. The cost benefit analysis indicated a **7 year** payback, since the project was a P3 partnership (public-private partnership) which would operate the building for the following **30 years**, it made sense for the premium in materials and space required.

On the **digital** side, they implemented metering at many levels to gather data and create efficiencies. **System integration** was required between the **mechanical, electrical** as well as the **hospital** systems, so that the system could turn off ventilation,

windows, and lighting for rooms that are not occupied.

The building was designed for a certain performance, and the designer and contractors had committed to based on the **P3**. Based on utility data for energy intensity the building performances, it is one of the best performing acute care facility in this area, so far it has met its **electricity** targets, while they are still working on the **natural gas** targets for the building.

Kurt then answered a number of questions from the audience including if this could have been done as a design-bid-build, which the motivation for the energy efficiency

due to the energy targets and penalties if the P3 project did not meet them.

President **Daniel Redmond** thanked **Kurt Monteiro** and President **Sheila Hayter** and gave them both a gift on behalf of the chapter. He reminded attendees of the survey which will be emailed. The next meeting is **January 24th** at the **Centurion Conference and Event Center**.

2018 Bowling Social

The annual **Bowling Social** was held on **Wednesday, Nov. 21st** at the **Merivale Bowling Center**. Turnout was excellent this year, with **12** teams vying for the trophy. In the end, **Ainsworth** pulled out the victory.

Thank you all for the participation and support! It is truly a testament to the efforts that our chapter is willing to make to maintain our exemplary status. See you next year!



Treasurer
Adam Moons
2018-2019
OVC Treasurer
Master Group

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Membership Update

Greetings Everyone,

Happy **2019!** With every new year comes new opportunity. I will be conducting some lunch and learn sessions in the early months.

Please contact me if you'd like to get involved. **Membership** is holding strong, but in order to continue growing I ask each and every one to

seize an opportunity to promote our chapter.

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

Jerome Deschenes
Jayson Bursill



Membership Promotion
Andrew Brown
2018-2019
OVC Membership Committee
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News Update

ASHRAE Leadership Addresses Canada House of Commons Standing Committee on Natural Resources

ATLANTA (Nov. 21, 2018) – **Sheila J. Hayter, P.E. 2018-2019 ASHRAE president**, and **Darryl K. Boyce, P.Eng., 2018-2019 ASHRAE president-elect**, testified before the Standing Committee on Natural Resources at the House of Commons of Canada on **Tuesday, Nov. 20.**

The committee is currently studying economic opportunities for **energy efficiency** in **Canada**. **ASHRAE** provided testimony focused on the technical tools, standards and guidelines it develops that can help government – and the private sector – deliver on **energy efficiency** and **building performance**.

During the hearing, **Hayter** highlighted how **ASHRAE** resources can help drive sound **energy policy**, and aid **Canada** in its development of a nationwide **net-zero energy building code**, which it aims to complete by **2030**, with all provinces and territories adopting and implementing it by **2040**.

Hayter shared that **ASHRAE** is reviewing its existing portfolio of standards to determine the best way to create a **zero-energy building standard** and would happily share the Society's knowledge in the area. "**ASHRAE** is honored to have had the opportunity to testify before the Standing Committee on Natural Resources," said **Hayter**. "We take immense pride in being invited into these important discussions while we work as a Society to spearhead the efforts toward building a new energy future. As **Canada** moves toward a **smart grid**, we welcome the opportunity to continue sharing our technical expertise to ensure this transition is done effectively and efficiently, and to also assist in

providing the tools, resources, and knowledge to ensure proper operation of buildings in this new paradigm."

During his testimony, **Boyce** passionately articulated the importance of optimizing the performance of **Canada's** existing buildings, sharing that every **\$1 million** invested in energy efficiency results in **\$3 to \$4 million** in economic growth, according to the **Pembina Institute**. **Boyce** also emphasized the need to focus on building operations to ensure optimal performance.

"Optimizing **Canada's** existing buildings and ensuring effective building operations are key to meeting **Canada's** energy and climate commitments," said **Boyce**. "Investments in these buildings can also generate solid economic benefits for those who own, operate, live and work in these buildings – and **ASHRAE** has the resources and tools to help achieve those benefits."

Boyce particularly pointed out the following tools as resources well-equipped to help **Canada** achieve its goals.

ASHRAE Standard 100, Energy Efficiency in Existing Buildings, which sets criteria to reduce energy consumption through improved energy efficiency and performance.

ANSI/ACCA/ASHRAE Standard 211, Standard for Commercial Building Energy Audits, which outlines the requirements for **ASHRAE** Level 1, Level 2, and Level 3 energy audits.

ASHRAE Building EQ, which is a building energy rating program that provides both an operational and asset rating to assess a building's energy performance. Beyond providing a score, Building EQ can help improve a building's energy



Governor Jacob Hough

2018-2019
OVC Program
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Total HVAC

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performance after the benchmarking is completed. The Building EQ-In Operation rating assists with an **ASHRAE** Level 1 energy audit and provides both a standardized process and actionable recommendations for the building.

ASHRAE Standard 135, BACNET® – A Data Communication Protocol for Building Automation and Control Networks, which defines data communication services and protocols for information technology used to monitor building systems and to ensure all building automation systems can "talk" to one another.

ASHRAE and Partners Release 2018 International Green Construction Code

Groundbreaking model for building codes helps municipalities save money, protect resources and increase the resilience, safety and standards of living for communities across the globe.

ATLANTA (Nov. 8, 2018) – **ASHRAE** has announced the release of the **2018 International Green Construction Code® (2018 IgCC®)**. The 2018 IgCC is a joint initiative of the **U.S. Green Building Council (USGBC), International Code Council (ICC), ASHRAE** and the **Illuminating Engineering Society (IES)**.

The 2018 IgCC aligns the technical requirements of **ANSI/ASHRAE/ICC/USGBC/IES 189.1-2017-Standard for the Design of High-Performance Green Buildings Except Low Rise Residential Buildings**, with ICC's



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multi-stakeholder IgCC. Goals of the updated code are to help governments streamline code development and adoption and improve building industry standardization by integrating the two previously separate guidance documents. As a result, the 2018 IgCC is now a unified code that emphasizes adoption, ease of use and enforcement for building projects.

"The 2018 IgCC leverages ASHRAE's technical expertise to offer a comprehensive tool that has a direct effect on how green building strategies are implemented," said **Sheila J. Hayter**, 2018-2019 ASHRAE President. "Improving energy efficiency, building performance and indoor air quality are at the core of ASHRAE's mission and we are encouraged by the impact of this landmark model towards realizing more a sustainable future for us all."

As a standing project committee, **ASHRAE SSPC 189.1** updated the technical aspects of **Standard 189.1-2014** using ASHRAE's continuous maintenance procedures. The final set of changes to the 2017 edition of **Standard 189.1** provided the foundation for ICC to develop the administrative procedures for the technical content and codify of the document into the 2018 IgCC.

"Building safety codes help our

communities prepare for the future," said **Dominic Sims**, CEO, International Code Council. "Taking into account the latest technologies and cost-effective strategies for dealing with resource scarcity, the IgCC helps cities, states and countries build stronger, smarter, sustainably and more resiliently."

"Our hope is that building professionals and policymakers alike adopt better, greener building strategies that help them better implement LEED® and achieve higher performance in sustainability," said **Mahesh Ramanujam**, president and CEO, USGBC.

About U.S. Green Building Council

The **U.S. Green Building Council** (USGBC) is committed to a prosperous and sustainable future through cost-efficient and energy-saving **green buildings**. USGBC works toward its mission of market transformation through its LEED green building program, robust educational offerings, an international network of local community leaders, the annual **Greenbuild International Conference & Expo**, the **Center for Green Schools** and advocacy in support of public policy that encourages and enables green buildings and communities. For more information, visit usgbc.org and connect on **Twitter**, **Facebook** and

LinkedIn.

About International Code Council

The **International Code Council** is a member-focused association. It is dedicated to developing model codes and standards used in the design, build and compliance process to construct **safe, sustainable, affordable** and **resilient** structures. Most **U.S.** communities and many global markets choose the International Codes.

About Illuminating Engineering Society

IES is the oldest and largest educational and scientific society in **North America** devoted to **lighting**. Since 1906, **IES** has sought to improve the lighted environment by bringing together those with lighting knowledge and by translating that knowledge into actions that benefit the public. A broad variety of programs, including publications, conferences and professional development, have been established to accomplish this mission. **IES** publishes and distributes the finest lighting literature authored by committees with the most experienced minds in industry and academia today.

For more information about IES, go to <http://www.ies.org/>.

YEA Archery Tag

Hi OVC!

As some of you saw, the **archery tag** event was postponed until after the Holidays.

We are looking at having it on the **Friday** following the **January** meeting so keep your eyes out for that registration in the new year! We are also excited that in the new year

we will be introducing a new event where we meet up for a skate on either the canal or 'Rink of Dreams'!

I hope everyone has a wonderful and safe holidays and look forward to seeing you all in the New Year!



Committee Chair

Jordan Hansen

2018-2019

OVC YEA Chair

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2019 ASHRAE WINTER CONFERENCE JANUARY 12–16 // AHR EXPO JANUARY 14–16

2019 ASHRAE Winter Conference

The 2019 **ASHRAE Winter Conference & AHR Expo** will be held in **Atlanta** from **January 12-16, 2019**. The **ASHRAE** Winter Conference is centrally located in downtown **Atlanta** at the **Omni CNN Center**, neighboring the **AHR Expo** at the **Georgia World Congress Center**. This is the event of the year for professionals in the HVAC&R industry.

The Conference Technical Program offers over 100 sessions within 8 tracks:

- Track 1.** Systems and Equipment
- Track 2.** HVAC&R Fundamentals and Applications
- Track 3.** Refrigeration
- Track 4.** Construction, Operation, and Maintenance of High Performance Systems
- Track 5.** Common System Issues and Misapplications.
- Track 6.** The Convergence of Comfort, Indoor Air Quality, and Energy Efficiency
- Track 7.** Building Integrated Renewables and Natural Systems

Track 8. The Engineer's Role in Architecture

The **AHR Expo** is from **Jan. 14-16** and directly across the street from the conference hotel. The Show will host more than **2,000** exhibitors and **65,000** industry professionals. When you register for the **ASHRAE Conference**, your **ASHRAE** badge will give you access to the **AHR Expo**.

Additional conference activities include **technical** and **general** tours of **Atlanta**, **social events** like the **Welcome Party** and **Members Night Out**, and of course **ASHRAE Learning Institute Courses**, **Certification** exams, and more.

Keynote Speaker: **Grant Imahara** (Former Host on Discovery's "Mythbusters" & Animatronics Engineering Expert). For almost a decade, **Grant Imahara** was one of the hosts of Discovery Channel's **Mythbusters**. Using a blend of **science** and **fun**, he put urban legends to the test, sometimes with explosive



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results. **Grant** tested **hundreds** of myths, and in the process, swam with sharks, hung from the skids of a helicopter, fired cheese out of a cannon into the **San Francisco Bay**, sliced a car in half using a rocket sled, destroyed so many cars he's stopped counting, and built many, many robots, all in the name of science.

ASHRAE has prepared some documentation to assist members in requesting support from their employers to attend. If interested, please follow the links to the Justification Toolkit. If you have questions let us know, or you can email meetings@ashrae.org.

See you in Atlanta!

Student Activities

Happy holidays!

We had a very busy **November/December** for **Student Activities**. First, we had a wonderful talk at **Carleton** by our Society President **Sheila Hayter**. We had over **60** students in attendance and heard from **Sheila** about her presidential theme and the importance of bringing the **energy** sector forward. A big thank you to **Sheila** for her talk, and to **Jayson Bursill** from the **Carleton** Student Branch and **Dan Redmond** for organizing the event.

Second, on **December 6th**, we had **24** students from **Earl of March**

High School visit **Modern Niagara**'s shop in the east end of the city. This group was composed of students from different grades, all currently participating in a **tech class**. The students had the opportunity to see firsthand how ductwork is made and get their first look into the **HVAC** industry. Thank you to **Modern Niagara** for having us, and for **Adam Moons** and **Adam Graham** for participating.

Safe travels this break, and I look forward to seeing you all in the new year.

Liz Primeau



Student Activities

Elizabeth Primeau

2018-2019

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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.



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Daniel Redmond
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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.

YEA Archery Tag

Hi OVC!

As some of you saw, the **archery tag** event was postponed until after the Holidays. We are looking at having it on the **Friday** following the **January** meeting so keep your eyes out for that registration in the new year! We are also excited that in the

new year we will be introducing a new event where we meet up for a skate on either the canal or 'Rink of Dreams'!

I hope everyone has a wonderful and safe holidays and look forward to seeing you all in the New Year!



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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

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2018-2019

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Publicity

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2018-2019

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Website

Ryan Dickinson