



Ottawa Valley Chapter

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

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

THEME: **CTTC**

PROGRAM: **Refrigerant Review**

Spencer will review the latest advancements in the **refrigerant** world. The presentation will discuss the past and present world of refrigerants and their legislation, and the future of refrigerant development. The delivery will focus on the **chiller** industry and the impact refrigerants play through chiller operation.

SPEAKER : **Spencer Fuller**
Regional Sales Manager - Chillers, Johnson Controls Inc.

Spencer Fuller graduated from **The Virginia Military Institute** with a degree in **Mechanical Engineering** in 2012. He has been with **Johnson Controls** for 7 years. Half his tenure has been a part of the chiller product management team where he managed the **YMC² magnetic bearing centrifugal chiller**, globally. The other half of his tenure has been with the Chiller RSM Team for **North America**. This team is responsible for ensuring that the **Johnson Controls** chiller portfolio, both water and air-cooled chillers, meet current and future customer requirements.

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 move through the 2018-19 **ASHRAE** season, I would like to thank everyone for joining us at the **Centurion Centre** on January 24th. Due to conflict with the **ASHRAE Society Winter Meeting** in **Atlanta Georgia**, the meeting was moved to a **Thursday** night instead of the traditional **Tuesday** night. The discussion provided by **Geoff Brown** about **Indoor Agriculture** was very well received and we had an outstanding turnout for the meeting.

Our **February** meeting is scheduled for **Tuesday February 19th** at the **Centurion Centre** where we will learn about the latest advancements in **refrigerants**. **Spencer Fuller** from **Johnson Controls Inc.** will provide an overview of the past and present developments of **refrigerants** as well as reviewing legislation and future developments in the refrigeration industry including the impacts on the **chiller** industry.

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

The theme for **February** is **Chapter Technology Transfer Committee (CTTC)**. One of the many annual objectives of the **CTTC** is

participation in the **Chapter Technology Awards**. The **OVC** has been very successful in past years with a variety of projects winning Technology Awards at the Regional Level for new and innovative designs. **James Pady** is our current **CTTC chair**, and I encourage anyone with questions about the application process to contact him directly.

Our **Annual Career Fair** will be happening on **March 5th** at **Carleton University**. Look out for more information if you are interested in sponsoring or attending. If you have any questions 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 Bonspiel** at the **Nepean Sportsplex**. Dinner will follow at the **Cedar Hill Golf and Country Club**. This event has always been a great success namely due to the past efforts of **Chris Healey** and his team of volunteers. For more information, please contact **Colleen Fox** at **613-808-4316** or cfox@trane.com

We are also excited to announce that



President
Daniel Redmond
2018-2019
OVC President
Carleton University

E-mail: daniel.redmond@carleton.ca

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, 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
David Michelin
2018-2019
OVC Table Tops
HTS Engineering

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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 55% of our \$34,300 goal for 2018-2019. Thank you to everyone

who made this possible.

Thank you to **Engineered Air** for donating **Ottawa Senators** hockey tickets which helped raise \$700 towards the **RP campaign**. Congratulations to **Andrea Haas** 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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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 **January** 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 **Young Engineers in ASHRAE (YEA)**. The meeting was attended by **seventy-eight** guests, which consisted of sixty members and eighteen guests. The program for the evening was **Indoor Agriculture** presented by **Geoff Brown** of **Dehumidified Air Solutions (DAS)**. 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 Membership Chair **Andrew Brown** introduced the new chapter members.

President-Elect **Aaron Dobson** spoke about the current **Research Promotion** campaign and the evening raffle, which was for four tickets donated by **Engineered Air** for a **Senators** hockey game for **Ottawa** versus **Winnipeg Jets** on February 9th.

Governor **Joe Della Valle** announced the upcoming **February YEA** event for **archery tag**, a game similar to **dodgeball** with bows and arrows, and an upcoming seminar presented by **Ralph Kison**, who does the **Young Engineers in ASHRAE Leadership Weekends**, for a one-day crash course on March 13th.

President **Daniel Redmond** announced the annual **ASHRAE Curling bonspiel** which will be held at the **Nepean Sportsplex Monday March 8th**. Format will be similar to previous years with **four** ends each, however this year the dinner will be held off site at **6pm**. Please contact **Coleen Fox** if you have any questions.

Luc Pellerin of the **NRC** spoke briefly about the **NMS** and **tech session** that was held before the meeting. The **National Master Specification (NMS)** was moved from **Public Works** to the **NRC** in **2015**, and they have started to put together improvements. Design for Climate resistance infrastructure is underway, and commissioning section into the NMS, smart building initiatives and performance-based specification. They are inviting the industry to give feedback or review on a volunteer basis. They are looking for insight into how performance-based specifications are developed. If you are interested please email or call **Luc** directly. His contact is available from the **NRC website**.

Daniel Redmond gave a short recap of the main events at the **Winter ASHRAE meeting**, with current and incoming leadership.

Table tops for the evening were **TotalHVAC** and **Enviroair**. **Michael Lallemand** spoke about **VRF** and the line of **Samsung** products both air cooled and water cooled. **James Pady** from **Longhill** presented about the **DAS** product line related to indoor agriculture, they have worked with **Dectron** and now **DAS**, and an indoor purification technology used in indoor agriculture, health care, and industrial use.

Secretary **Adrienne Mitani** announced the upcoming **ASHRAE Career fair**, which will be held again at **Carleton University** on **March 4th**. Booths will be **\$300** and sponsorship is **\$150**, registration for booths is **online**.

Dinner was an assorted **buffet**. The tickets were raffled off with **\$700** raised for **ASHRAE Research**.

President **Daniel Redmond** announced the speaker **Geoff**



Secretary
Adrienne Mitani
2018-2019
OVC Secretary
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Brown and the topic of **Indoor Agriculture**. **Geoff** works the Business Unit and Brand Manager for the **Agronomic IQ** series of **Dehumidifiers** at **DAS**. He specializes in **indoor humidity control**, and how it relates to indoor climates for indoor agriculture and the recent **cannabis** industry.

He is also on the committee for a joint standard for **ASBE** and **ASHRAE for indoor agriculture X653**. Focus was mostly on **Cannabis** due to that is the market. These focus on greenhouses, mixed light facilities, and warehouse, with crops such as **cannabis**, **food** and **flowers**, and the design of these facilities depends heavily on the crop. Some consideration for crop facilities is the amount of water that they will be adding to the room and how the plants process the water. The requirements of the plants will vary on the strain of the plant and the specific requirements and expectations of the growers, which he stressed was necessary to get in detail.

Cannabis has a **six-stage** growth cycle, which require different temperatures and humidity levels for specific amounts of time, as the plants mature, are cloned, flower, and depending on the processed dried and cured. If a room is ever contaminated, usually the room is scrapped and washed down thoroughly. Depending on what the end product is, dried, oil, or other there will be different processes required.


Some items of note are the **high**

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power density required for indoor agriculture, which is compared to a **data center**, with a large **latent heat** load. Dehumidification of the space is required at low temperatures for exact temperature and humidity for different rooms with crops at different life stages, or for different strains. All of the growers are trying to differentiate their product, either with extracts or as a master craft product which may have different requirements for the process.

The primary drivers in the process are **light** for sensible load, and **water** usage to understand the water and latent load of the space. However when the lights turn off, the plants will pump moisture into the air, which means during night

temperature setback the grains of moisture in the air will stay the same but the relative humidity will increase as the temperature decreases.

When the **HVAC** systems are investigated, some considerations are the **dew point**, since dehumidification is required at low temperatures, and how the moisture can be removed. The cooling demand does not change with the season and **reheat** is required all year round, therefore choosing systems that are capable of both, and something that is scalable as the facilities grow is key. The technical requirements are not new, however getting the required information for the desired environments is key, and within the budgets and scale that is required.

One question was asked about **odour**, and often it is only treated at the exhaust for neighbors, with carbon filtration, and active oxidization.

President **Daniel Redmond** thanked **Geoff Brown** 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** for the **Environmental Commission of Ontario GHG report**.

The next meeting is **February 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,

Time is flying by and February is already upon us. At this month's meeting I will have the honor of introducing Geneviève Lussier to our chapter. Geneviève is our RVC for membership promotion and has been a great resource helping us grow. Help me give her a warm welcome.

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

Gennady Reshetnikov
Bryan Michael Brown
Francis Arpin
Brendon Laberge
Dr. Mehdi Ghobadi
Josh Bourbonniere
Adnan Zeyrek



Membership Promotion

Andrew Brown

2018-2019

OVC Membership

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News Update

ASHRAE Wraps Up Successful 2019 Winter Conference, AHR Expo

ATLANTA (Jan. 18, 2019) – Increased building activity, operational demands, changes in codes and design and new energy efficiency strategies were just some of the topics discussed among buildings professionals at the **2019 ASHRAE Winter Conference and AHR Expo**.

The **2019 ASHRAE Winter Conference** took place Jan. 12-16 at the **Omni Hotel Atlanta** at **CNN Center** and the **Georgia World Congress Center** in **Atlanta, Ga**, **ASHRAE's** headquarter city. More than **2,700** individuals registered for this year's **Winter Conference**.

The **AHR Expo** attracted **HVACR** professionals from around the globe and provided a forum for manufacturers to showcase the latest products and services. The Expo drew more than **65,000** attendees, with **1,809** exhibitors total, **496** international exhibitors from **35** countries and **107** first time exhibitors.

The **Winter Conference technical program** featured more than **300** presentations, with interest surrounding this year's new track, **Renewable and Natural Systems**, where session topics included **exploring energy technologies, renewable energy sources and the future of the smart grid**.

"The **Winter Conference** and **AHR Expo** provides an excellent setting for buildings professionals to collaborate on new ideas and share **knowledge**," said **2018-2019 ASHRAE President Sheila J. Hayter, P.E.** "As we explore ways to incorporate renewable energy technologies into integrated building concepts, **ASHRAE** will take an even greater leadership role in defining the

relationship between buildings and the **power** sector. The **Winter Conference** and **AHR Expo** continues to be one of the most important platforms through which this knowledge is shared."

At the conference, **Hayter** provided **Society** updates and initiatives related to the Society theme, **"Building Our New Energy Future."** She focused on how **ASHRAE** is preparing buildings professionals for the **challenges and opportunities** of designing **efficient and grid-responsive** buildings within the changing energy sector. **Hayter** announced that a workshop, **Building our New Energy Future: Current and Emerging Research Priorities**, will be held Mar. 28-29, sponsored by **NREL** and **ASHRAE**. Also announced was the release of a presidential webinar, titled **"Efficient Buildings, the Future and a More Intelligent Grid."**

Additionally, "Q&A" videos will be released on **The Potential For Zero Energy Districts, Smart Homes-Saving Energy and Money and Grid-Interactive Buildings**.

ASHRAE Learning Institute (ALI) offered five full-day **seminars** and **15** half-day **courses**. The top attended courses were **Humidity Control I: Design Tips and Traps; Humidity Control II: Real-World Problems and Solutions;** and **Variable Refrigerant Flow System: Design & Application**.

During the conference, **ASHRAE** signed a **Memorandum of Understanding (MoU)** with the **Pakistan HVACR Society (PHVACR)**. The agreement formalizes the two organizations' long-standing commitment toward the promotion of common cooling and heating related endeavors.

ASHRAE and **UN Environment**



Governor Jacob Hough

2018-2019
OVC Program
Committee
Total HVAC


E-mail: jacobh@totalhvac.com

announced the launch of its **2019 and 2020** work plan. The new work plan will afford **ASHRAE** opportunities to work with local and national policy markets, ensuring sound energy efficiency and environmental protection policies based on **ASHRAE** standards and resources. This is the **fifth** work plan resulting from a **2007** MoU agreement between **ASHRAE** and **UN Environment**.

"The mutual benefit of the new work plan is that **ASHRAE** has the ability to make key experts in refrigerant development and the application of new refrigerants accessible to **UN Environment**, through **ASHRAE** chapters to provide training to national policy makers and practitioners in developing countries," said **Hayter**. "As the world shifts to use of refrigerants with lower global warming potential, mandated by the **Montreal Protocol**, the linkage between **ASHRAE** and **UN Environment's** **OzonAction** unit is critically important to meet global challenges." **ASHRAE** recognized outstanding achievements and contributions of dedicated members to the **HVACR** industry during its **Honors and Awards** program. A special presentation was made to **H.E. (Barney) Burroughs**, presidential Fellow Life Member **ASHRAE**, for his 100th **ASHRAE** conference attended. The slate of nominees for **2019-2020** board officers and directors were announced. Elections will be held in **May**.

New publications were highlighted including the International Green Construction Code® (IgCC®)


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The 2019 **ASHRAE Annual Conference** will take place June 22-26 in **Kansas City**, with the **2020 Winter Conference** Feb. 1-5, and the **AHR Expo**, Feb. 3-5, in **Orlando, Fla.**

ASHRAE Presents Awards and Honors at 2019 Winter Conference

ATLANTA (Jan. 13, 2019) – **ASHRAE** recognized the outstanding achievements and contributions of members to furthering energy efficiency in the heating, ventilation, air conditioning and refrigeration industry during the **2019 Winter Conference**. A list of the awards and their recipients are below.

Fellow ASHRAE

Fellow ASHRAE is a membership grade that recognizes members who have attained distinction and made substantial contributions in **HVAC&R** such as education, research, engineering design and consultation, publications and mentoring. The Society elevated 17 members to the grade of Fellow:

- **Fred S. Bauman**, P.E., Life Member, project scientist, Center for the Built Environment, University of California, **Berkeley, Calif.**
- **Alexander S. Butkus**, P.E., Life Member, retired president and senior principal, Grumman/Butkus Associates, **Evanston, Ill.**
- **Charles Eley**, P.E., BEMP, architect/engineer, Eley Consulting, **San Francisco, Calif.**
- **Kenneth M. Elovitz**, P.E., engineer, Energy Economics, Foxboro, Mass., and, adjunct teaching professor, Worcester Polytechnic Institute, **Worcester, Mass.**

Mass.

- **Paul W. Francisco**, senior research engineer, Indoor Climate Research & Training Group, Applied Research Institute, University of Illinois at Urbana-Champaign, **Champaign, Ill.**
- **Hwataik Han**, Ph.D., P.E., professor, Kookmin University, **Seoul, South Korea**
- **Yunho Hwang**, research professor, University of Maryland, **College Park, Md.**
- **Arthur A. Irwin**, Halifax, **Nova Scotia, Canada.**
- **James Kamm**, Ph.D., P.E., Life Member ASHRAE, professor, University of Toledo, **Toledo, Ohio.**
- **Kathleen Owen**, owner and air pollution control engineer, Owen Air Filtration Consulting LLC, **Cary, N.C.**
- **Gary Phetteplace**, Ph.D., P.E., Life Member, president, GWA Research LLC, **Lyme, N.H.**
- **Elbert (Bert) Phillips**, P.Eng., Life Member, president, UNIES Ltd., Winnipeg, **Manitoba, Canada.**
- **Michael A. Pouchak**, P.E., systems architect, Honeywell, **Golden Valley, Minn.**
- **Dharam V. Punwani**, president, Avalon Consulting, Inc., **Naperville, Ill.**
- **M. Ginger Scoggins**, P.E., president, Engineered Designs, Inc., **Cary, N.C.**
- **James R. Tauby**, P.E., chief executive engineer, Mason Industries Inc., **Hauppauge, N.Y.**
- **Philip C.H. YU**, Ph.D., C.Eng., environmental and applications engineering director, Trane Pacific, **Hong Kong.**

The ASHRAE Technology Awards

The ASHRAE Technology Awards recognize outstanding achievements by **ASHRAE** members who have successfully applied innovative building designs. Their designs incorporate **ASHRAE** standards for effective energy management and indoor air quality and serve to communicate innovative systems design. Winning projects are selected

from entries earning regional awards. First place recipients are:

- **Dwight Schumm** and **Timothy Lentz**, P.E., design engineers, new commercial buildings category, Indian Creek Nature Center Amazing Space, **Cedar Rapids, Iowa.** The building is owned by Indian Creek Nature Center. The building representative is **John Myers.**
- **Hiroki Kawakami, Hiroaki Takai, Kazuki Wada** and **Koji Tanaka**, P.Eng., existing commercial buildings category, TAKENAKA Corporation Higashikanto Branch Office Renovation, Chiba City, **Chiba, Japan.** The building representative is **Hiroshi Suzuki.**
- **John E. Tsingas** and **David S. Eldridge**, Jr., P.E., ebcx commercial buildings category, 801 Grand, **Des Moines, Iowa.** The building is owned by **Principal Financial Group.**
- **Michael P. Sherren**, P.E., new educational facilities category, Wilde Lake Middle School, **Columbia, Md.** The building is owned by **Howard County Public School System.**
- **Morgan B. Heater**, existing educational facilities category, Westside School, **Seattle, Wash.** The building is owned by **Westside School.**
- **David J. Meyer**, P.E., Jaimeeganleong Wilson, Ph.D., P.E., BEMP, BEAP, Eric J. LePore, P.E. and Alfred Rodgers, CPMP, new other institutional buildings category, Koffman Southern Tier Incubator, **Binghamton, N.Y.** The building is owned by **Koffman Southern Tier Incubator.**
- **Sarah E. Berseth** and **Scott A. Lichty**, P.E., new public assembly category, Ramsey County Library, **Shoreview, Minnesota.** The building is owned by **Ramsey County Property Management.**
- **Dominic Desjardins**, Eng., **Maurice Landry**, Eng. and **André-Benoît Allard**, existing public assembly category, Montréal Olympic Park's Integrated Performance Contracting Project,



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Montréal, **Québec, Canada**. The building is owned by **Montréal Olympic Park**.

Student Design Competition
The Student Design Competition focused on a new 70,000 square foot (6,500 square meter), four-story mixed use complex north of **Istanbul, Turkey**.

First place in the HVAC Design Calculations category was awarded to the **University of Nebraska – Lincoln**. Team members are **Jack Buckley, Madeline Sampsel, Austin Seagren** and **Christopher Wozny**.

First place in the HVAC System Selection category was awarded to **Kansas State University**. Team members are **Kevin J. Clark, Madison Hopfinger, Evan Reese, Whitney Luck** and **Andres Saldivar**.

First place in the category of Integrated Sustainable Building Design was awarded to an international collaborative team from **The Pennsylvania State University (PSU)** and **Technical University of Denmark (DTU)**. PSU team members are **William McCann, Oluwatobi Gbadebo, Salvador Ordorica, Ashutosh Kumar Ojha, Marie Rottschaefter** and **Siddharth Swaminathan**. The DTU team members are **Vasileios Filis, Myrto Ananida,** and **Alexandre Mathieu**.

The **Setty Family Foundation Applied Engineering Challenge** requires students to plan, develop and enact solutions to sustainability issues in their local or regional areas. The **first place** student team from the **Bandung Institute of Technology** designed a temporary shelter for use by governments, municipalities, and humanitarian agencies in an **Eastern European** location. Team members are **Iik Wahyu Anggara, Katon Vembriarto Widayaswara, Yoga Hutomo Putra, Mohammad Ilham**

Akbar and **Fahmi Rizaldi**.

E.K. Campbell Award of Merit
William P. Bahnfleth, Ph.D., P.E., Presidential Fellow Member ASHRAE, received the E.K. Campbell Award of Merit. The award honors an individual for outstanding service and achievement in teaching and is presented by the **Life Members Club**. **Bahnfleth** is professor architectural engineering, **The Pennsylvania State University, University Park, Penn.**

John F. James International Award
Stephen Gill, C.Eng., received the John F. James International Award. The award recognizes a member who has done the most to enhance the Society's international presence. Gill is president, Stephen Gill Associates, **Nottingham, UK**.

ASHRAE Award for Distinguished Public Service
Patricia T. Graef, P.E., Life Member, Fellow ASHRAE, received the ASHRAE Award for Distinguished Public Service. The award recognizes members who have performed outstanding public service in their community and, in doing so, have helped to improve the public image of the engineer. Graef is senior engineer, Munters Corporation, **Fort Myers, Fla.**

Honorary Member
William Henry Gates, III, was elected as an Honorary Member of ASHRAE. Honorary Members, elected by the Board of Directors, are defined as notable persons of preeminent professional distinction. Gates is founder, Microsoft Corporation, **Medina, Wash.**

ASHRAE Hall of Fame
George B. Hightower, P.E., was inducted into the ASHRAE Hall of Fame. The ASHRAE Hall of Fame honors deceased members of the Society who have made milestone contributions to the growth of ASHRAE-related technology or the development of ASHRAE as a society.

ASHRAE Announces Nominees for 2019-20 Slate of Officers and Directors
ATLANTA (Jan. 14, 2019) – **ASHRAE** announced its nominees for the 2019-20 slate of officers and directors during its **2019 ASHRAE Winter Conference in Atlanta, Ga.** Nominations for officers and directors were made by the ASHRAE Nominating Committee from a list recommended by individual members and from Chapters Regional Conferences.

The 2019-2020 **nominees** are as follows:

- President-Elect: **Chuck Gullede**
- Treasurer: **Mick Schwedler**
- Vice Presidents: **Bill McQuade, Bill Dean, Dennis Knight** and **Farooq Mehboob**
- Director and Regional Chairs: **Steve Marek** (Region IV), **Douglas Zentz** (Region V), **Richard Hermans** (Region VI), **Robin Bryant** (Region XII) and **Apichit Lumlertpongpana** (Region XIII)
- Directors-at-Large: **Kelley Cramm, Jaap Hogeling** and **Ashish Rakheja**
- Alternate Director-at-Large: **Kishor Khankari**

ASHRAE members will vote on the nominees via electronic ballot in **May**. **Darryl Boyce** will serve as **ASHRAE President** for the 2019-20 society year.

For more information on the 2019-20 slate of officers and directors, visit [/2019-20slate](#).

Smith + Andersen

Michael St. Louis B.Eng., P.Eng.
Associate Principal
d 613 691 0265 m 613 316 7297
Michael.St. Louis@smithandersen.com

1600 Carling Avenue Suite 503
Ottawa, Ontario K1Z 1G3



David Yin, P.Eng., LEED AP
Senior Associate, Buildings Engineering
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400 - 1331 Clyde Avenue, Ottawa ON K2C 3G4
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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**.

 Yorkland Controls ENVIRONMENTAL SOLUTIONS	Larry Gravelle Tel: (613) 721-3301 Fax: (613) 721-4906 1-877-733-3833 www.yorkland.net
 Honeywell HWG/BAS & Vulcan	 BELIMO
 Johnson Controls	 FACILITY EXPLORER
 KIMC	 SIEMENS
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Yorkland Controls represents leading control systems and component manufacturers. Integrated solutions for Lighting, Card Access, CCTV and Building Automation.	

 TOTAL HVAC
Steve Moons Principal
Total HVAC Inc. 14A-190 Colonnade Rd., S. Ottawa, Ontario Canada, K2E 7J5
Tel: (613) 723-4611 Fax: (613) 723-4677 Cel: (613) 229-5806 Email: stevem@totalhvac.com Web: www.totalhvac.com

 TRANE	Glenn Jones B.Eng LEED AP BD+C Sales Manager - HVAC Systems
1024 Morrison Drive Ottawa, ON K2H 8K7 613-356-1940 / Cell 514-951-7809 613-820-8111 / Fax 613-820-1414 gjones@trane.com www.trane.com	 Ingersoll Rand.

 WALMAR www.walmarventilation.ca	
24 Gurdwara Road Nepean, Ontario K2E 8B5	BRIAN EUSTACE Engineer Liaison
Tel: (613) 225-9774 x 252 Fax: (613) 225-2972	e-mail: brian@walmar.net
VENTILATION & FILTRATION PRODUCTS	

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.

ASHRAE Curling Bonspiel

The **2019 AHSRAE Curling Bonspiel** will be held again this year at the **Nepean Sportsplex** on **Friday, March 8th** with dinner to take place at the **Cedarhill Golf & Country Club - 56 Cedarhill Dr, Nepean, ON K2R 1C5**

We have room for **18** teams this year,

the cost is **\$400.00** per team. First rock will be thrown at **12:00pm** and **dinner** will follow at **6:00 pm** (please note dinner location). To register please visit our website at the link below. For any other questions, please contact Committee Chair Colleen Fox at **613-808-4316** or cfox@trane.com



Special Events
Colleen Fox
2018-2019
OVC Special Events
TRANE

E-mail: cfox@trane.com

<https://ashraeottawa.simplesignup.ca/en/4099/index.php?m=eventSummary>

YEA Archery Tag

Hi **OVC!**

Our next **YEA** social event is **Archery Tag** sponsored by **The Master Group** and will be taking place on **February 22**. The registration is now open and there is limited registration left so be sure to sign up soon so you don't miss out!

This event is **open** for everyone so

feel free to invite your co-workers.

These social events are a great way to meet other members within the industry. Thank you all for the continued support!



YEA
Jordan Hansen
2018-2019
OVC - YEA
Goodkey Weedmark & Associates

E-mail: jhansen@gwal.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) 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

HTS Engineering Ltd.

E-mail: rod.lancefield@hts.com

2018-2019

President

Daniel Redmond
President-Elect

Aaron Dobson

Treasurer

Adam Moons

Secretary

Adrienne Mitani

Governors

Chris Frauley

Joe Della Valle

Jacob Hough

Celine Baribeau

Peter Shaw-Wood

Past President

Adam Graham

Committees

Attendance

Sandy Taylor

Audit

Abbey Saunders

Capital Communiqué

Evans Mutua

CRC

Daniel Redmond

CTTC

Jacob Hough

Grassroots

Government Affairs

Adam Moons

Financial

Sandy Taylor

Greeter

Chris Frauley

History

Ryan Dickinson

Membership

Promotion

Andrew Brown

Nominations &

Awards

Abbey Saunders

Steve Moons

PAOE

Aaron Dobson

Program

James Pady

Research

Promotion

Aaron Dobson

Roster

Georges Maamari

Special Events

Colleen Fox

Joe Della Valle

Rod Lancefield

Adam Moons

Student

Activities

Elizabeth Primeau

Table Top

David Michelin

YEA

Jordan Hansen

Website

Ryan Dickinson



Project Officer

Mechanical/Electrical

(Planning and Facilities Department)

COMP 19/011

Non-Affiliated Level 4

Job description

Reporting to the Projects Coordinator, the Mechanical/Electrical Project Officer is responsible for planning, scheduling, coordinating and executing drawings and specifications for the timely delivery of school renovation, alteration, and upgrading projects.

In accordance with Board policies and procedures, relevant regulations, and industry practices, the Project Officer is responsible for design and development of working drawings and construction documents, contract administration, providing direction to and supervising the work of professional consultants, tendering, contract management, for a range of school facility renewal and major maintenance projects.

The ideal candidate will have 3 year Community College diploma in mechanical / electrical engineering technology or a related field, or a degree in these fields, 7 years of related experience, excellent communication, organizational and problem solving skills; and proven demonstrable experience in successful project management from initiation to completion. Use of AutoCAD is required, as is a valid driver's licence and use of a car.

This is a full time permanent position with an annual salary range of \$78,845 – \$85,522. A comprehensive employee benefits package is also provided.

The effective date is approximately March 4, 2019.

How to apply

Applicants are invited to forward a resume, by **5:00 pm on February 20, 2019**, quoting COMP 19/011, by email to debra.nolan@ocsb.ca

Pursuant to the Accessibility for Ontarians with Disabilities Act, (AODA), if you require accommodations at any time throughout the application process, please contact Debra Nolan in the Human Resources Department 613-224-4455 ext. 2421 or via email at debra.nolan@ocsb.ca prior to the posting closing date so that appropriate arrangements can be made.



Catholic Education Centre
Human Resources Department
570 West Hunt Club Road
Nepean, Ontario K2G 3R4





Position: Building Code Engineer-Mechanical

Competition Number: 2019-EX-EN-52368759-01

Competition posting date: 2019.01.23

Competition closing date: 2019.02.25

Planning, Infrastructure & Economic Development Department, Planning Services, Building Code Services Branch

1 Full-time Continuous Position - 35 hours/week

Affiliation: CIPP

Salary: \$101,561.46 to \$123,585.28 annually (2019 rates of pay)

Location: 101 Centrepointe Drive

Category: Current Opportunities

Employment Group: Engineering

Job Summary

The Building Code Engineer is responsible for the development and implementation of building code policies, for the Building Code Services Branch, related to mechanical engineering and design, as well as the management of projects involving specialized mechanical engineering regulated by the Building Code Act and the Ontario Building Code. This includes ensuring the provision of appropriate guidelines to staff and clients related to plans examination, permit approval and building inspection services as well as evaluations of contract services related to the preceding activities pertaining to the mechanical aspects of buildings. This includes appropriate code-related design review and inspection services associated with proposed new development, renovation and rehabilitation of existing buildings.

The Code Engineer is also responsible to provide expert professional advisory services to management, branch technical staff and clients with regard to mechanical design matters and the administration of the Building Code and referenced design standards pertaining to the examination of plans and specifications submitted in support of permit applications and for field review of construction and the assessment of existing buildings.

Education & Experience

Graduation from a recognized University with a Masters in Civil Engineering with specialization in structures and/or building mechanical systems

Minimum of ten (10) years of progressively responsible experience in all phases of structural and/or mechanical design, Building Code enforcement, construction and inspection of new buildings and the evaluation and rehabilitation of existing structures including project management

Language, Certificates & Licenses

- Must be a registered Professional Engineer of Ontario (P. Eng)
- Eligible to attain the standing of a Certified Building Code Official (C. B. C. O.) in the Ontario Building Officials Association
- Within a reasonable amount of time, must have successfully completed the provincially mandated

examination program administered by Ministry of Municipal Affairs and Housing relating to:

- Building Code Act and the Ontario Building Code, and in the categories of qualifications that correspond to the types of buildings that will be inspected (reviews of drawings and inspection of construction), including plumbing and mechanical, as set out in the Ontario Building Code

A valid Ontario unrestricted "G" class driver's license (or provincial equivalent) with no more than 6 demerit points accumulated.

English oral, reading, writing required.

Knowledge

- Extensive knowledge of:
 - mechanical engineering theory, design and practices
 - the National and Ontario Building Codes, referenced documents and standards relating to mechanical engineering and design
 - mechanical design computer programs
 - professional practice and ethics
 - technical aspects of the regulations, including design factors and criteria, application of concepts such as building occupancy classifications, construction types, fire walls and fire separations, fire resistance ratings, fire protection, etc.
- Sound knowledge of computer software applications - Micro soft office suite, etc.

Competencies & Skills

- Demonstrated ability to analyse complex building designs.
- Demonstrated ability to advise expertly on the Building Code and regulations and on the impact of these controls on large building construction projects
- Demonstrated ability to read and interpret plans, specifications, codes, by laws and regulations is necessary
- Demonstrated ability to communicate effectively with tact and diplomacy, and exercise good judgement, both verbally and in writing, with all external and internal work related contacts
- Demonstrated ability to work with the public, in a service oriented environment
- Ability to appear as a professional witness or provide expert opinion before the courts or similar legal proceedings or tribunals
- Sound knowledge of professional and technical practice in all disciplines of the design and construction of buildings
- Experience in performing effectively in a detail oriented environment, requiring a high degree of personal organization and accountability
- Demonstrated ability to work under limited supervision
- Perform effectively in a detailed-oriented environment, requiring a high degree of personal organization and accountability
- Demonstrated ability to exercise judgement and decision making in determining and initiating appropriate action to resolve problems in a highly complex technical environment consistent with city policy
- Demonstrated proficiency in utilizing Microsoft suite, which meet corporate standards including GIS/MAP
- Apply the principles of project or contract management
- Understanding of municipal government structure and sensitivity to the role of municipal government
- Ability to meet physical demands as assessed (Physical Demand Checklist available on request)

If this opportunity matches your interest and profile please apply online by using the "Apply" button. If this is your first online application please refer to our resources on how to apply for jobs online.

We thank all candidates for their interest, however, only those selected to continue in the selection process



will be contacted.

The City of Ottawa is committed to providing quality services by establishing a qualified workforce that reflects the diverse population it serves. The City encourages applications from all qualified individuals.

Accessible formats and communication supports are available upon request. Please contact the HR Service Centre at 613-580-2424, extension 47411.