



ASHRAE Ottawa Valley Chapter

DATE: Tuesday March 21, 2017

Technical Session: 16:30, Social: 17:30, Dinner: 18:30, Program: 19:30

LOCATION: Algonquin College Restaurant International
1385 Woodroffe Ave, Building H, Room H100

THEME: Student Activities

PROGRAM: Refrigeration Energy Essentials

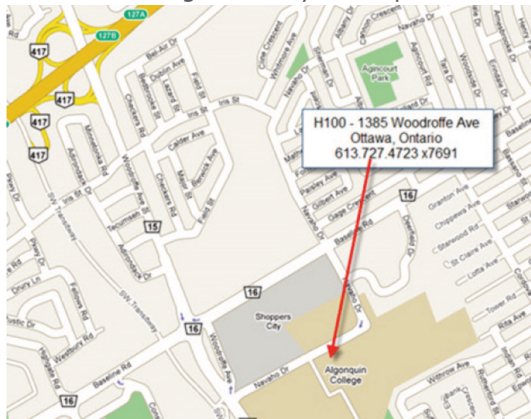
A review of the basic vapor compression refrigeration cycle and refrigeration system components will be used to learn which parameters and design choices have the most impact on refrigeration and air conditioning system efficiency. The presentation will examine different control strategies and technologies that are used to increase refrigeration cycle efficiency such as floating head pressure, floating suction pressure, sub cooling, expanders and ejectors. This topic will also explain coefficient of performance (COP) and how combined COPs are used.

SPEAKER: Greg Scrivener, Cold Dynamics Ltd

Greg Scrivener started in the refrigeration industry as an apprentice refrigeration mechanic in 1997 and completed his journeyman certification in 2003 with an award for 'Most outstanding new Journeyman'. Continuing to work in the refrigeration industry, Greg completed a B.Sc. in Mechanical Engineering with distinction from the University of Saskatchewan in 2011.



Having worked in roles from all the way from mechanic to design engineer, Greg can offer a comprehensive view point on refrigeration related construction and design. In 2014, he founded Cold Dynamics and is now involved with refrigeration consulting work including design, inspections, commissioning, advanced troubleshooting, energy auditing, control sequence optimizations, and training. Coupled with a passion for energy efficiency and the environment, Greg's unique experience leads to an in-depth understanding of the parameters affecting efficient refrigeration system operation.



Space is limited so please register online at the link below

Chapter Members: \$45.00
Guests: \$65.00
Student Members: \$30.00
Life or Fellow: \$45.00

<https://ashraeottawa.simplesignup.ca/en/2212/index.php?m=eventSummary>

President's Message

As the calendar dates flip towards spring, and we head into what we hope to be warmer weather we also enter the home stretch of our **ASHRAE** year. We wrapped up **February**, and hopefully the last of the cold weather, with a very successful **ASHRAE Curling Bonspiel**. A special thanks to Chris Healey, his team of volunteers, and all participants for another successful **ASHRAE** social event.

This month's theme is **Student Activities**, and to that end we have two really exciting events planned. Thanks to the hard work and dedication of our student activities co-chair **Peter Shaw-Wood**, on **March 2nd** a number of students will be participating in a **Job Site Tour** at **Carleton University** with representatives from Carleton and **Modern Niagara**. Our other student activities co-chair **Adrienne Mitani** has been busily working to ensure the success of our upcoming **Career Fair** scheduled for **March 3rd**, also hosted at Carleton University. We encourage many facets of our industry to participate in the Career Fair, and on the same token we will be encouraging student participants to attend the March Program meeting. Please take the time to speak with a student and chat about their studies and a possible future in our industry. As usual, we will also be looking for student meal sponsors. When you register for the next meeting I encourage you to consider sponsoring a student meal.

Our next program meeting will be held on **March 21st**, and we are back at **Algonquin College** in the typical venue location, **Restaurant Internationale**. Please refer to the program article for location and program details. The upcoming program will provide insight on the latest revisions to CAN/CSA B52 - Mechanical Refrigeration Code. All

link: <https://ashraeottawa.simplesignup.ca/en/2173/index.php?m=eventSummary>

members are encouraged to attend early again this month, as prior to the program meeting will be hosting a technical session on **Electrical Basics for the HVAC Industry**. To register for the upcoming March meeting please visit our website at www.ashrae.ottawa.on.ca

March brings with it our deadline for **CTTC Technology Award** submissions. Our CTTC chair **Jeff Watson** spoke at the February meeting about how easy it is to submit a project for consideration. I encourage anyone with projects fitting, or questions about the application process to contact Jeff. It would be great to see another strong turnout from our local designers with Technology Award submissions.

Our **Research Promotion Campaign** is in full swing now with a calling campaign about to be initiated. If you have not received a call from our RP committee members yet, please expect one in the near future. Feel free to be proactive and contact **Adam Graham** directly, or visit the website to donate. Our membership and their personal donations are what make our RP campaign so successful, and I encourage all individuals and organizations to continue with your generous donations to help us achieve our goal.

Every year at this time, we officially open the floor for nomination of chapter members to positions as next year's officers and executive members. Our **Nominations and Awards Committee**, led by **Bob Kilpatrick** will take recommendations from members, past-presidents, officers, and others into account when reviewing the future leadership of our chapter. If you have been contemplating increasing your participation in our local ASHRAE chapter, please see



President
Abbey Saunders
2016-2017
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myself or Bob. Additionally, if you would like to suggest a colleague or friend that you feel would be an asset to the chapter, please contact us to discuss leadership roles within the chapter and what those roles provide for the chapter. Encouraging members to take action in shaping our chapter is one of our primary objectives. The next couple months are the chance for members to have the biggest impact on the leadership of the chapter for the years to come. There are many roles to fill, and I can assure you that participation in ASHRAE is a rewarding experience. We are also reviewing our membership for various awards at the Chapter and Regional level, so I remind everyone to please update your **ASHRAE Society Bio** so you may be considered for awards you may be eligible for.

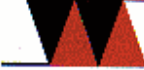
As I mentioned in the last issue of the communicate we will be hosting our second technical seminar on **March 22, Canadian Refrigeration Safety Code & VRF Technology in our Canadian Climate**. Check out this month's communicate for additional details, or visit the website to register at the link below.

Lastly, with spring just around the corner I know everyone is eager to attend our March meeting. Please take the time to register, and I look forward to seeing you all at the next meeting.

Sincerely,
Abbey Saunders
2016-2017 OVC President


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Technical Session: ELECTRICAL FUNDAMENTALS FOR HVAC DESIGN

If you have ever felt that Electrical Fundamentals are a mystery, then you need to attend this Tech session. **Jeff Siddall** of **Morrison Hershfield** will be giving an introduction to **Electrical Power and Lighting for the HVAC industry**.

He will go over the main components and their function. He will review topics such as:

- Common voltages such as 120 / 208 / 347 & 600 V
- The purpose of transformers and the heat release impact on Mechanical design
- Single phase vs three phase power
- Is 347 V still valid with the advent of LED lighting?
- What is the Heat release from newer lighting fixtures
- What is the purpose of Starters, MCC's and VFD's
- When do you need dry contacts and relays?
- What systems belong on Emergency Power?
- When do you need more than one Automatic Transfer Switch?
- The need to coordinate with Electrical regarding what voltages are available and why 240 volt is not usually a good option

He will also describe the information that the Electrical designers need from the Mechanical designers. The importance of performing an M&E coordination review prior to tender. He will emphasize why changing all the motor sizes the day before tender is really not such a good idea. He will explain how to cool a transformer vault in accordance with Hydro requirements. He will also give an introduction to electrical single line drawings and how to read them.

We look forward to seeing you there.

What You Missed

President Abbey Saunders called the fifth meeting of the 2016/2017 season to order. The meeting took place at **Algonquin College**. President Saunders introduced the Board of Governors and the Executive.

Secretary Chris Fudge introduced the guests for the evening and noted that the **ASHRAE Design Essentials 1 and 2** are taking place in **Toronto**, May 8th -12th 2017.

Treasurer Dan Redmond provided an update on the **ASHRAE** Winter meeting he attended in **January**. Two big takeaways from the winter meeting for Dan were; from Region 11 **Tim McGinn** won the nomination for **DAL**. **Darryl Boyce** was nominated as Society Treasurer.

Incoming Society Treasurer **Darryl Boyce** spoke to the honor of being nominated for this position and thanked the chapter for their support. Mr. Boyce will be the 6th Society president to come from Canada.

CTTC Chair Jeff Watson provided an update on CTTC. Jeff spoke to the

role of the CTTC Chair.

The main purpose of CTTC being to transfer technical information from Society and industry to the chapter members (press releases/bulletins/etc). Some of the vehicles used by ASHRAE for this are the Distinguished Lecturer Program. The Ottawa Chapter is fortunate enough to have 3 DL's this year. **ASHRAE Webcast** is another means ASHRAE disseminates technical information—it is an annual free webinar which takes place in April. This year's webcast is **April 20** and the topic is **"Using Analytics to Drive Building Performance"**. Putting together the Program is the responsibility of the CTTC – our Chapter has a dedicated Program Chair for this task. The program is very important as it is what attracts new members and retains members. Members are the lifeblood of ASHRAE.

President Abbey Saunders invited each of the table top speakers to come to the podium to say a few words about their respective table tops. **Trevor Freeman** from **Hydro Ottawa** spoke briefly about incentive programs that will be covered in



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detail later tonight. **Ahmed Farag** from **Master RenewAire** discussed briefly

Student Activities Co-Chair Peter Shaw-Wood provided an update on the tour that will take place at **Carleton University** on **March 2nd**. The tour will be guided by **Guillaume Beudin**. **Student Activities co-chair Adriane Mitanni** discussed the upcoming career fair on **March 2nd** at **Carleton University**. There will be students at this career fair from Colleges and Universities from the Ottawa region.

RVC Student Activities Ben Oliver provided an update on Student Activities at the regional level.

Adam Graham provided an update on research promotion and announced donation to RP of 5,000

from **Hydro Ottawa**. He also discussed the upcoming **ASHRAE OVC seminar** that will be taking place on **March 22nd**. The seminar will be two parts, each a half day. Part one will be **CSA B52** while the second half of the seminar will be focused on **VRF**. Details of the seminar and registration are located on the ASHRAE OVC web site.

Nick Lea did an overview of TC's, how to join a TC and the TC he is involved in.

President elect Adam Graham and President Abbey Saunders drew the winning ticket for the RP raffle. **Steve Moons** won the draw. The tickets were donated by **Walmart**.

President Saunders highlighted both **Mr. Freemans** and **Mr. Sing's** backgrounds and qualifications. President Saunders invited Trevor Freeman to the podium to start the first half of the evening's program.

The purpose of the department for which Mr. Freeman works is to facilitate building owners and managers to reduce their buildings energy consumption and offset demand. Mr. Freeman started his presentation with the definition of retro commissioning; systematic process to improve an existing buildings performance. There are several different terms used in the area of commissioning; building commissioning, re-commissioning, retro-commissioning, ongoing commissioning. Retro-commissioning is used for buildings that may have never been commissioned properly or buildings that have undergone a lot of change. Ongoing commissioning is what takes place after building commissioning or retro-commissioning.

Retro-commissioning focuses on operation and usually involves an energy audit. Operations include sequences of operation, functional testing and ultimately system

optimization.

Why would a building owner look at doing retro-commissioning? The system will operate more efficiently which means less operating cost. The system overall performance should be improved. It is also a vehicle for obtaining a more streamlined maintenance process. Building operator training is also part of this process. Better system performance means happier occupants and streamlined maintenance and operator training mean further reductions in operating costs.

Typically retro-commissioning projects save roughly **16%** on energy and have a payback period of **13 months**. In the Ottawa area the stats are similar. Five buildings were looked at the average savings was **16%** while the average payback was **2.2 years**. On the Ottawa projects roughly **50%** of the energy audit cost was covered by Hydro Ottawa.

Hydro Ottawa has programs that can help building owners reduce the cost for; energy audits, retro-commissioning studies, building system audits. Audit funding program was reviewed in detail. There are several paths to getting funding for projects with Hydro Ottawa. There are three main paths; audit funding programs, existing building commissioning, process and system engineering studies.

If you are considering doing a project there are some important steps to follow to make sure incentives are received at the end of a project. The first step is to establish eligibility of your project by getting in touch with Hydro Ottawa as soon as possible (before any work is done). Once you have established eligibility submit your application and obtain pre-approval. Once the project is completed submit post-project documentation and then receive cheque.

Martin Sing begins the second half of the evening's presentation.


Mr. Sing began by providing some additional details on retro-commissioning. Additional details of the process were highlighted. The planning phase, investigation phase, implementation phase and hand off phase were reviewed. In the planning phase the merits of the project are reviewed with the owner, the site walk through is done, the retro-commissioning plan is made and the team assembled that will do the work of the project. The investigation phase, functional testing, site monitoring, facility documentation is reviewed, a master list of findings is compiled and then operational improvements are prioritized and selected. In the implementation phase an implementation plan is developed, selected operational improvements are implemented and the results are verified. In the hand off phase, a final report is developed, system manual is completed, the recommissioning plan is developed and operator training is performed.

Mr. Sing reviewed some examples of real projects where retro-commissioning was performed. **275 Slater** was the first project in Ottawa that received **LEED Silver** for existing buildings. The building recently underwent a retro-commissioning two years ago. When it received the LEED Silver rating seven years ago it received energy star score in the mid 80's. The recent retro commissioning findings were **9%** energy savings was possible with a simple payback of **4 years**. Identified areas of improvement were refining the free cooling loop operation, AHU setpoint optimization and unoccupied space temperature control.

The **Sir Wilfred Laurier Building** was pursuing **LEED Gold** Certification. Retro-commissioning process identified a **29%** energy reduction was possible with a **5 year**



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simple payback. Measures were from very simple to a chiller replacement. The building operators over time had changed the operation of the building in order to address tenant complaints. The result was the building operated much less efficiently. Much of the energy improvements were gained from reversing some of the changes that were made. Economizer operation was refined. The economizer dampers were locked out although the controls were sending a signal to modulate the dampers. Exhaust fans ran continuously although the building was not occupied in the evenings. Set point adjustment were also made. The chiller plant was also looked at. It was found the chiller plant they had was oversized. The tonnage of the plant was reduced from 800 to 500 tons. The money

saved was invested in other changes made in the building was well as a more efficient chiller.

TD Place was a combination of an energy audit and a retro-commissioning project. The retro-commissioning project was done on the south side of the building. This part of the building was only 1.5 years old at the time of the project. Significant energy savings measures were identified. **12%** energy savings were identified with a simple payback of **6 years**. Most of the energy savings came from low cost to no cost measures and 4% came from capital improvements. Some of the key findings on this project were event based control and unoccupied control, set point adjustments, sensor repair, additional BAS control as well as

exhaust fan and pump optimization. Some of the low cost/no cost measures have been implemented. None of the capital improvements have been made yet. The next step of the project is to get approval from the owner and implement the remaining recommendations. The energy audit was done on the north side of the building because most of this part of the building is nearing end of life.

President Abbey Saunders thanked both speakers and presented them with a gift. President Saunders reminded the audience of the career fair, CTTC Tech Awards Submission and the upcoming ASHRAE Design Essentials course.

Meeting adjourned at 21:30

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ASHRAE OVC Seminar

- DATE:** **Wednesday, March 22, 2017**
 Half Day Seminar - Morning (8:30AM - 12:00)
- LOCATION:** Master Group Ottawa Training Room
 25H, North Side Road, Nepean, ON, K2H 8S1
- TOPIC:** **Canadian Refrigeration Safety Code Seminar**
- PRESENTER:** **Greg Scrivener, President Cold Dynamics**
ASHRAE Distinguished Lecturer



Greg Scrivener started in the refrigeration industry as an apprentice refrigeration mechanic in 1997 and completed his journeyman certification in 2003 with an award for 'Most outstanding new Journeyman'. Continuing to work in the refrigeration industry, Greg completed a B.Sc. in Mechanical Engineering with distinction from the University of Saskatchewan in 2011.

Having worked in roles from all the way from mechanic to design engineer, Greg can offer a comprehensive view point on refrigeration related construction and design. In 2014, he founded Cold Dynamics and is now involved with refrigeration consulting work including design, inspections, commissioning, advanced troubleshooting, energy auditing, control sequence optimizations, and training. Coupled with a passion for energy efficiency and the environment, Greg's unique experience leads to an in-depth understanding of the parameters affecting efficient refrigeration system operation

SEMINAR DESCRIPTION:

This presentation is specific to the regulatory requirements of the CSA B52 code in Canada. The presentation will review the code requirements that apply to the location and installation of refrigerant piping in both industrial and commercial applications. Because of the regulatory environment in Canada there are large sections of CSA B52 that do not have significant enforcement, possibly leaving design engineers responsible for compliance. We will review the installation of chiller plants, split systems and VRF (Variable Refrigerant Flow) piping as well as calculations of occupancy based refrigerant concentration limits. Changes have been made to the refrigeration code in the USA that will eventually make their way into Canadian code, will also be reviewed.

DATE: Wednesday March 22, 2017
 Half Day Seminar – Afternoon (1PM – 4:30PM)

LOCATION: Master Group Ottawa Training Room
 25H, North Side Road, Nepean, ON, K2H 8S1

TOPIC: VRF Technology in our Canadian Climate

PRESENTER: Jean-Samuel (JS) Rancourt, Principal, DXS Engineering



Jean-Samuel (JS) Rancourt is a founding partner of DXS, a subsidiary of HTS focusing exclusively on VRF technology. JS entered the HTS family of companies via the co-operative internship program. JS is a graduate from the University of Waterloo, graduating Valedictorian from his Mechanical Engineering class.

JS used the co-operative program to spend some time in the HVAC industry in the HTS-Ottawa office and in the HTS-San Antonio, Texas office in 2008 and 2009. After spending some time within the contracting and project management team of HTS at the Toronto headquarters, JS launched DXS in Ontario in June of 2012. Since then, JS has designed and managed the largest high-rise condo, school, hotel, and school residence project with VRV technology in Canada, including the largest VRV project in North America. JS now leads the engineering and owner/developer sales of DXS, and is in charge of business development.

OVERVIEW:

Variable Refrigerant Flow [VRF] technology has swept away the rest of the world over the past three decades. VRF is now becoming a mainstream HVAC option in Canada, with multiple 100+ ton projects underway across the country, and as the fastest growing segment of the North American HVAC industry.

VRF has unique advantages, mainly due to buildings no longer needing any water components for HVAC when air-source VRF is used. VRF is a space efficient alternative to central plants, removing the need for chillers, cooling towers, heat exchangers, pumps etc. Using small and flexible refrigerant pipes to distribute heating and cooling around buildings instead of water, VRF is ideal for retrofit applications, or for new-builds with footprint or floor height constraints.

This seminar will introduce VRF technology, discuss its benefits and challenges in our Canadian climate and with our construction standards, and provide insights on designing intelligent VRF systems.

Part I: VRF Overview (90 minutes)

- Introduction
- VRV 101
- Application & design
- Water-cooled VRV
- Refrigerant & CSA B52

Part II: Advanced Modules (90 minutes)

- Heat Recovery systems design optimization
- Designing for low ambient heating and cooling
- VRV Controls design and integration

Space is limited so please register online ASAP.

Half Day: \$175 for ASHRAE OVC members, \$225 for non-member

Full Day: \$300 for ASHRAE OVC members, \$375 for non-member

Registration will close March 17, 2017

*Drinks and snacks will be provided. Please contact Sandy Taylor with any special dietary concerns.
 sandy@ashrae.ottawa.on.ca*

Mark Csiffary P.Eng.
 President

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IR Ingersoll Rand.

Chapter Technology Award

Greetings from the CTTC Chair,

Just a friendly reminder regarding that the deadline for applications for the Ottawa Valley Chapter ASHRAE Technology Awards will be **March 15, 2017**. The Awards Presentation

will occur at the **April Chapter Meeting**.

For those wishing to learn more about the Awards Program, an overview can be found on ASHRAE's website.

Committee Chair

Jeff Watson

2016-2017

OVC CTTC Chair

Chorley + Bissett

E-mail: Jeff.Watson@chorley.com

Link: <https://www.ashrae.org/membership--conferences/honors--awards/technology-awards-program-overview>

YEA

Hi YEA!

I am excited to announce that we have finalized an event for **Friday, March 24th**. We will be testing out our lumber jack skills at **BATL Ottawa**, axe throwing!

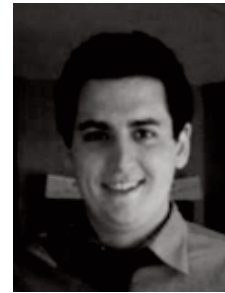
An email invitation will be sent out shortly, this will include all the event

details. Be sure to register early as spots will be limited.

Thank you for the support and I look forward to seeing you at the next event.

Thank you for your support!

Joe Della Valle



Committee Chair

Joe Della Valle

2016-2017

OVC YEA Chair

Walmar Ventilation

E-mail: joedellavalle@walmar.net

Table Top Display

If you're looking to communicate the value of your product, there is no better way than to invest in a table-top at an upcoming **ASHRAE OVC** meeting. Highly attended and highly regarded, our monthly meetings can afford you the opportunity to display your new technologies to an eager group of HVAC/R engineers and contractors. If you wish to review the themes of each meeting to find an appropriate topic, please feel free to contact me.

Thanks to **The Master Group** and **RenewAire**, as well as **Ottawa Hydro**, for their involvement in the **February** meeting. Looking forward to seeing the great products offered at our March engagement!

Please contract **Adam Moons** (amoons@master.ca) to secure yours today! Cost for table tops is **225\$** and spaces are filling up quickly, so book your table-top today!



Governor

Adam Moons

2016-2017

Table Top Chair

Master Group

E-mail: amoons@master.ca

Payment is to be made through the online system prior to the date reserved. Follow the link below: <https://ashraeottawa.simplesignup.ca/en/1775/index.php?m=eventSummary>

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News Update

Preliminary Energy Savings Announced for ASHRAE/IES 2016 Energy Standard

ATLANTA – More than 30 percent energy savings can be achieved using the 2016 version of **Standard 90.1**, according to recent analysis conducted by **Pacific Northwest National Laboratories** (PNNL) in support of the **U.S. Department of Energy (DOE) Building Energy Codes Program**.

An update on the preliminary results of the 90.1-2016 progress indicator report was made at the recent **2017 ASHRAE Winter Conference. ANSI/ASHRAE/IES Standard 90.1-2016**, Energy Efficiency Standard for Buildings Except Low-Rise Residential Buildings, was published in **October 2016**.

PNNL conducted the energy savings analysis, using the 2004 standard as baseline. These results are considered preliminary and are expected to be deemed final in **October 2017** when **DOE** publishes its final determination.

PNNL's analysis shows for the whole building energy consumptions, national aggregated site energy savings are **34.1** percent and energy cost savings are **34.2** percent, when compared to the 2004 standard.

"For more than 40 years, ASHRAE and IES members have strived to build upon the energy savings measures in each update of Standard 90.1, most recently released in its 10th edition," **Tim Wentz, ASHRAE President**, said. "Each year the challenge grows as technology becomes more efficient. That we continue to build upon the savings speaks to the ability of our industry to adapt and transform as those technologies change and more advanced technologies become more

cost effective."

"The *Illuminating Engineering Society* has actively engaged with ASHRAE since 1975 providing technical support and co-developing standards," **Mark Lien**, IES Industry Relations Manager and liaison to the Standard 90.1 committee, said. "Compliance with recommended light levels is verified using a database of luminaires. These baseline products were reevaluated and updated to reflect the market shift toward higher efficiency lighting sources. We are proud of the dedicated members of the Lighting Subcommittee and the Standard 90.1 committee and their significant contribution to the energy savings achieved by the 2016 version."

On a nationally aggregated level, building-type energy savings range from **11.9** percent (fast food restaurants) to **48.6** percent (schools) and energy-cost savings from **15.3** percent (large offices) to **49.8** percent (schools). These figures include energy use and cost from the whole building energy consumptions including plug and process loads.

Sixteen different building prototypes were modeled in 17 different climate locations for a total of 272 building types in various climate zones that were incorporated into this analysis.

The energy reduction calculation was achieved through more than 120 addenda incorporated in the standard related to changes to requirements. The major changes in those addenda:

- updated controls for emergency lighting
- improved window U-factor and solar heat gain coefficient
- improved coiling door air leakage requirements
- updated parking lot occupancy

Committee Chair

Jeff Watson

2016-2017

OVC CTTC Chair

Chorley + Bissett

E-mail: Jeff.Watson@chorley.com

- controls
- updated opaque door U-factor
- established minimum chilled water systems coil selection Delta T
- updated transformer efficiency requirements
- added domestic hot water branch insulation
- reduced heat rejection variable frequency drive (VFD) threshold
- raised minimum exhaust air energy recovery threshold
- reduced exterior and interior lighting allowances
- updated fenestration orientation
- included service factor in heat rejection VFD threshold
- updated motor efficiencies
- improved hotel/motel guest room control
- reduced pumping VFD threshold
- required high efficiency dwelling unit lighting
- reduced retail lighting adder
- eliminated computer room economizer threshold
- removed ventilation optimization exception for energy recovery ventilator
- updated transfer air requirements
- updated climate zones

ASHRAE Announces Call For Papers For 2018 Winter Conference, January 20 - 24, Chicago

ATLANTA – **ASHRAE** has announced a call for papers for its **2018 Winter Conference** in **Chicago, IL**, January 20-24 at the **Palmer House Hilton**.

This conference includes tracks on

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what ASHRAE is most known for – standards, fundamentals and applications, systems and equipment, tracks on industry trends in resiliency and modeling throughout a building’s life cycle, and tracks addressing specific disciplines, such as transportation air conditioning, tall buildings and heat exchange equipment.

“Engineers and designers continue to advance designs to reduce the ecological impact of our built environment on the world around us. It has practically become second nature.” **Michael Collarin**, chair of the 2018 ASHRAE Winter Conference, said. *“However, and seemingly more so in recent years, the industry has needed to take steps to mitigate the impact of the world around us on our built environment. This is especially the case in our transportation, government, and mission critical arenas, where the loss of critical infrastructure can have severe consequences, including the loss of life. The tracks and programs for the ASHRAE Winter Conference will focus on resources to design, build, control, commission and operate facilities and infrastructure that need to not only be efficient, but resilient.”*

The **“Earth, Wind & Fire”** track aims to help owners and design teams identify and plan for natural elements and other possible disasters that would otherwise be crippling. Papers that evaluate various systems (including HVAC, building envelope, structural, filtration, and on-site power), design strategies, construction measures, and building operation are sought. Papers addressing the worldwide implementation of codes and standards to harden facilities and equipment are sought. The conference will also include an HVAC&R focus on fundamentals, applications, systems, equipment, refrigeration and modeling.

The **“Standards, Guidelines and Codes”** track addresses how these are constantly evolving with the intent on improving the built environment and its systems and the need for designers, contractors, architects and owners to keep up with the continuing changes in the current cycle as well as to prepare for future changes. The papers and sessions highlight the changes to the standards and guidelines, their projected path and optimum design techniques to meet or exceed the standards.

The **“Fundamentals and Applications”** track lays the foundation for understanding applications in engineering. Key components include thermodynamics, psychrometrics, fluid and mass flow, IAQ, and building envelope. This track provides opportunities for papers and presentations of varying levels across a large topic base. Concepts, design elements and shared experiences for theoretical and applied concepts of HVAC&R design are included.

The **“HVAC&R Systems and Equipment”** track focuses on selection, which is paramount to HVAC&R design. Papers and programs in this track will assist designers, engineers, and operators in the design, selection, and operation of HVAC&R systems and equipment.

Designing for natural elements and other possible disasters often requires specific elements of building design and construction. From materials to stabilizing elements and simulations to specifications, these options must be incorporated. The “Earth, Wind and Fire” track will deliver on modern strategies to address all of these conditions. Be prepared to be blown away by industry practices to prevent disastrous results.

The explosion of computational

capacity and data collection capability is rapidly expanding the scope, complexity and practical applications of modeling both during design, but even more so for fault detection, diagnostics and operational optimization. Papers and presentations are solicited related to all aspects of building modeling, with a particular interest in successful applications addressing operational phases for the “Modeling throughout the Building Life Cycle” track.

Also, papers are sought for tracks focused on **“Tall Buildings, Transportation IAQ and Air Conditioning”** and **“Heat Exchange Equipment.”**

In addition, a **“Refrigeration”** mini-track will be presented at the **2018 AHR Expo, Jan. 22-24, McCormick Place**. Admission will be free. The AHR Expo is expected to attract some **60,000** registered visitors and exhibitor personnel.

ASHRAE offers two types of paper submissions:

Conference Papers: Abstracts due **March 1, 2017**. Upon acceptance, final papers will be due **July 7, 2017**. These “final” papers undergo a single-blind review, are submitted as a PDF and have an eight single-spaced page maximum length.

Full Technical Papers, which are due **March 1, 2017**. Papers submitted for review must be both technically accurate and clearly written. These papers undergo a rigorous double-blind review and can be a maximum of 30 double-spaced pages.

The technical program will be announced in **September 2017**.

To submit a conference paper abstract or a technical paper and for more information about the conference, visit:

www.ashrae.org/chicago.



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Research Promotion

Thanks for your continued support for **ASHRAE Research Canada!**

ASHRAE Research plays a huge role in all aspects of our built environment. Our homes, offices, schools, hospitals, retail spaces and even the food we eat are all affected and hopefully protected by their HVAC&R system, or lack thereof. Although Abbey and her committee have left me big shoes to fill, I am pleased to be part of such an important part of society in serving as the Research Promotion Chair for our **Ottawa Valley Chapter**.

Our objective for the 2016-2017 RP Campaign is **\$29,000**. Although this seems like a lot, our chapter history, in particular last year's stellar fundraising efforts have shown us this objective is attainable. No donation is too small, and all money raised goes to **ASHRAE Research Canada**.

Georges Maamari, Abbey Sauders, Michael Swayne, Robert Lefebvre, and Frank Bann have all agreed to help support this cause as a part of the ASHRAE RP Committee. Please contact any of us with your RP questions. We have started our annual calling campaign so expect to hear from one of us shortly if you have not yet.

The raffle draws for event tickets will

continue at each program meeting in support of our 2016-2017 RP Campaign. Last meeting's tickets for the **March 2, Sens v. Avalanche** game were graciously donated by **Walmar Ventilation!** **Walmar** also donated another set of tickets for the **Curling RP raffle**. These two events raised a combined **\$1,025** for Research. A special thanks to all that have donated tickets. We are always looking for donors that may have something to contribute for our monthly raffles. Please contact me if interested.

As of **Feb 27, 2017**, we have raised **\$17,195** towards our campaign goal, approximately **59%** of our objective. Thanks to all our donors who continue to support the **RP Campaign**.

Thanks to all our donors who continue to support the RP Campaign.

A list of current 2016-2017 RP Campaign donors will be updated for each monthly newsletter, so donate quickly to see you name appear!

Two of the easiest ways to make your donation to the 2016-2017 RP Campaign are by clicking either of the links below.

However, should you wish to make you donation using cheques, please



**President-Elect
Adam Graham**
2016-2017
OVC President-Elect
HTS

E-mail: adam.graham@hta.com

make all cheques payable to **ASHRAE Research Canada**. My contact details are shown below, but I will gladly make arrangements to pick-up any cheques if need be.

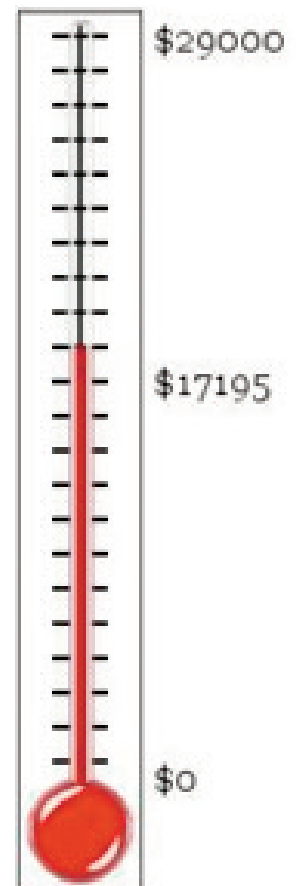
Again, I can't say this enough thanks for your continued support for ASHRAE Research Canada!

Adam Graham

ASHRAE OVC President Elect,
Research Promotion Chair

Attn: **Adam Graham**
HTS Ottawa
1646 Woodward Drive, Ottawa, ON,
K2C 3R8
T 613.728.7400x2804
C 613.889.6928
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ASHRAE OVC link: <https://ashraeottawa.simplesignup.ca/en/1773/index.php?m=eventSummary>

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

Curling Wrap-up

The annual **ASHRAE Curling Bonspiel** took place this past Friday Feb 24 at the **Nepean Sportsplex**. We had 18 teams entered and by all accounts, everyone had a good time. The winning team, entered by **Total HVAC**, consisted of:

Tom LeRoy
Gavin Symonds
Philippe Brunet
Andrew Douma

These skilled gentlemen took home the hardware, and a nice bottle of wine for their efforts.

As in past years, going back to 2010, we have donated money to what is deemed a worthwhile cause, mostly local charities, for example, Roger's House, The Salvation Army, The Ottawa Food Bank, to name a few, this year we were able to donate : \$1,440.00, this brings the total to \$12,630.00 since we started 8 years ago. As well, we ran a raffle during the dinner part of the evening, raising

approx \$515.00 for **ASHRAE Research** while a few lucky folks in the crowd walked away with some gift cards, wine, Sens Tickets, etc. Thanks to **Christine Kemp** and



Committee Chair

Chris Healy

Walmart

E-mail: ChrisHealey@walmart.net

Cathy Godin for helping out.

I would like to thank **Capone's Catering** for a great meal and **Stan Millross** for being our Emcee for the evening. We look forward to seeing everyone next year. Next up for **ASHRAE** on the social calendar will be the annual **ASHRAE Golf Tourney**, it is scheduled for June 20, once again at **The Marshes Golf Club**, look for details soon.

Chris Healy

Winter Meeting News and Wrap-Up

Canadians Win Nominations at ASHRAE Winter Meeting

Two Canadians won the nominations for Society positions at the **ASHRAE Winter** meeting in **Las Vegas**:

Tim McGinn from Region 11 won the nomination for Director at Large (DAL).

Darryl Boyce from Region 2, and from our Ottawa Valley Chapter, won the nomination for Society Treasurer. Darryl will now become the 2017-2018 ASHRAE Society Treasurer and afterwards will be on the track of becoming the future Society President-Elect in 2018-2019 and the future Society President in 2019-2020. Darryl has proven very dedicated to ASHRAE over the years and we would like to congratulate

him on this incredible achievement.

Winter Meeting Wrap-Up

The **2017 ASHRAE Winter Conference** and the **AHR Expo** saw record attendance with industry collaboration a strong focus of the events.

The 2017 ASHRAE Winter Conference took place **Jan. 28-Feb. 1** at **Caesars Palace** with the **ASHRAE** co-sponsored **AHR Expo** held **Jan. 30-Feb. 1** at the **Las Vegas Convention Center**. The two events exceeded their record-breaking attendance from the Conference and Expo that were held in Las Vegas in 2011.

In total, **3,579** people attended the Conference, making it the most well



Secretary

Daniel Redmond

2016-2017

OVC Treasurer

Carleton University

E-mail:

DanielRedmond@cunet.carleton.ca

attended Winter Conference in recent years. The attendees represented **58** countries and included **537** first-timers.

The AHR Expo set several records, including attendance of more than **68,000** registered visitors and exhibitor personnel, as well as **500,159** square feet sold. The Show was by far the largest and best attended Expo in the Western states, with some **1,968** exhibiting companies.

NOMINATIONS AND ELECTIONS

ANNOUNCEMENT

Hello everyone,

With the recent onset of somewhat spring-like weather, the time has arrived when as members of the **Ottawa Valley Chapter**, our thoughts turn to the future of our Chapter, as we consider nominations for next year's **Executive** and **Board of Governors**.

On behalf of the Nominating Committee, I am pleased to announce the following eligible members to hold office as the Chapter Executive for **2017-2018**, and the positions for which we are seeking nominations:

President: **Adam Graham**
President-Elect: **Dan Redmond**
Treasurer: **Chris Fudge**
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 to the continued success of the



Committee Chair

Robert Kilpatrick
2016-2017 Nominations and Awards Chair
NRC-CNRC

E-mail: Robert.Kilpatrick@nrc-cnrc.gc.ca

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!

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President
josephm@wesmechtech.com cell: 416-720-8976

Membership Update

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

Mr Michael Brown
Mr Fahed Abdou
Mr Alexandre Seguin
Mr Simbarashe Chakanyuka II
Mr Ryan Hiemstra
Miss Marie-Eve Hodak

At any time, if you have any questions or comments regarding your

ASHRAE membership, please do not hesitate to contact me at: cbaribeau@bpa.ca

Thank you all for the continued support and participation in your local ASHRAE chapter. Looking forward to seeing everyone at the next **ASHRAE** meeting.



Committee Chair

Celine Baribeau
2016-2017 Membership Committee Chair
BPA

E-mail: cbaribeau@bpa.ca

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 **Daniel Redmond** (danielredmond@cunet.carleton.ca) with any questions. Follow the link below for payment.

<https://ashraeottawa.simplesignup.ca/en/1774/index.php?m=eventSummary>

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.



E-mail:
DanielRedmond@cunet.carleton.ca

Treasurer
Daniel Redmond
2016-2017
OVC Treasurer
Carleton University

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@htseng.com for more details.

Payment will be made through the online system. Follow the link below for payment.
<https://ashraeottawa.simplesignup.ca/en/1776/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.

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2016-2017 Publicity Committee Co-Chair
HTS Engineering Ltd.
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- This is a full time position complete with a competitive salary, and benefits.
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- Writing of product technical specs
- Presentation of technical drawings/documents
- Preparation of buying & pre-purchase documents
- Maintain sales forecasting reports
- Presentation of product applications for use in HVACR systems (formal presentation with catalogs or audio/video material)
- Acquire required technical knowledge in order to promote products (academic or manufacturer training)

Management of client accounts

- Development of existing and potential clients & solicitation
- Preparation of annual sales budgets for territory & proposals for client accounts
- Responsible for the use of the CRM in client account management
- Document account activities, generate reports and keep records of business transactions with customers and suppliers
- Responsible for developing and identifying design build accounts and markets.

After sales service

- Contacting customers after the sale to resolve problems and ensure follow up
- Ability to resolve technical problems related to products

Marketing & promotion

- Selling price: coordination with purchasing & sales departments
- Marketing tools, catalogs, sales manuals: coordination with purchasing & sales departments
- After sales service: coordination with service manager & support to manufacturers
- Technical training (products, installation, maintenance)
- Keep informed on industry news and trends, products, services, competitors, relevant information about existing and emerging technologies and the latest product-line developments

Ensure effective regional commercial relations with suppliers.

Promotion of products within the Master sales team.

Identify competitive positioning of our products versus the competition.

Coordination with Product Managers & Technical Support Department

Keep informed on industry news and trends, products, services, competitors, relevant information about existing and emerging technologies and the latest product-line developments.

Requirements:

A Mechanical Engineering degree or equivalent experience

Possess a minimum of 5 to 7 years experience in the sales environment

In depth knowledge of products technical applications (HVACR Master's products & competition)

Working knowledge of Microsoft Office products

Bilingualism considered a major asset

Must have a valid driver's license and be willing to travel

Work conditions:

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master.ca

We thank all applicants for their interest, however only candidates selected for an interview will be contacted.