



## ASHRAE Ottawa Valley Chapter

- DATE:** **Tuesday January 19, 2016**  
(Social: 17:30, Dinner: 18:30, Program: 20:00)
- LOCATION:** **Algonquin College Restaurant International**  
1385 Woodroffe Ave, Building H, Room H100
- THEME:** **YEA**
- PROGRAM:** **IOT (The Internet of Things)**
- SPEAKER:** **André Beauchamp, Sales Development Manager, Intel Canada**



### **SPEAKER BIO:**

André is responsible for Intel sales to the system integrators, embedded and communications customers in eastern Canada. André has been involved in a variety of roles at Intel including global account management, startup activities, and business development roles.

### **OVERVIEW:**

André will discuss the broad topic of IOT and how the internet and increasing numbers of connected devices are changing the way we live and do business.

*Internet of Things, Industrial Intelligence of Things, Machine to Machine.....*

*Call it whatever you want, it'll be big, it'll be really big,*

*Billions of Connected Devices, But what does it really mean to your business?*

- *Is it plug and play?*
- *Is it secure? ..... can it be hacked?*
- *Are there standards out there?*
- *How do you connect all these things together?*
- *Who owns the data? What can be done with it? Can I expand my business into new services?*

Restaurant International is happy to accommodate ANY dietary needs with one week's notice. Please get in touch with Sandy Taylor. [sandy@ashrae.ottawa.on.ca](mailto:sandy@ashrae.ottawa.on.ca)  
If you are a vegetarian, ask the server for a list of options

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

**Space is limited so please register online at:**  
<http://www.ashrae.ottawa.on.ca/>

*Registration will close 1 week prior to the event, on Tuesday January 12th. Pre-registration is required as the venue requires confirmed numbers that the chapter must commit to pay for at this time.*

# President's Message

Dear members,

Another year has come and gone. They seem to go faster and faster each year. I hope everyone had an enjoyable holiday season with family and friends. I would like to welcome you to an exciting new year with your **Ottawa Valley ASHRAE** chapter.

For those that do not know, this year marks the **63rd Anniversary** of our chapter. It's hard to believe that we have been doing this for over **60 years** (well not me). Many of you are likely aware that our city has grown over the last six decades by having piles and piles of great people executing **HVAC** and **ASHRAE** principles into many, many iconic and historic buildings. Over these years, the HVAC industry has evolved with more efficient designs, more energy efficient equipment, better building envelopes, and a higher focus on sustainable design. So what do we

have to look forward to for the next 60 years?

At our **January 19th** meeting **Andre Beauchamp** will be our guest speaker and will be giving a lecture on **IOT** (Internet of things). Although this topic will likely prove to be quite different than our usual HVAC topic, it will provide a glimpse of what is now becoming a developing trend in all industries.

The theme for our next meeting is **YEA**, so we hope to see many of our young members in attendance. We hope to continue to enjoy strong turnouts to our meetings. As a reminder, our **January** meeting will be back at our normal venue at the **Restaurant International** at **Algonquin College**. With that said, I highly encourage everyone to use our online reservation system. It really streamlines the sign-in process and speeds up the whole check-in



**President**  
**Georges Maamari**

2015-2016

OVC President

**BPA**

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system in general.

Finally, the **ASHRAE Winter Conference & Expo** is coming up (**Orlando, Florida - January 23-27**). I hope everyone attending has safe travels and a good time. Visit the website at the link below for more details.

Okay, the holiday break is over now we all have to get back to work, I wish you all a fun and successful **2016**.

Georges Maamari, P.Eng  
2015-2016 OVC President

link: <https://www.ashrae.org/membership--conferences/conferences/2016-ashrae-winter-conference>

## 2016 ASHRAE Winter Conference

Jan. 23-27 | Orlando Hilton | Orlando, Fla.

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Special first time attendee registration fee available! Low, early-bird registration rates end Nov. 2. Register early! Registration to the ASHRAE Winter Conference includes free access to the AHR Expo!



**2016 AHR Expo**

Jan. 25-27 | Orange Co.

Conv. Center | Orlando, Fla.



Venues are strategically located next to each other for easy access.



# What You Missed

The meeting took place at **Agonquin College**, Woodroffe Avenue in Ottawa, in the teacher's lounge/cafeteria. The meeting was called to order at **6:25 pm**, and attendees were seated for dinner.

During the business session, **President Georges Maamari** called the meeting to order. **Celine Baribeau** welcomed the new members for November, and **Past-President Steve Moons** welcomed the guests for the evening. **Past-President Patrick St-Onge** spoke about the technical tour that was offered that day at the **Bank of Canada Head Office Renewal**. About **20 people** attended, and they reviewed the operation of the chilled ceiling panels, the heat-recovery chiller and the dynamic buffer zone along the envelope, where return air comes through the glazing, ensuring a very energy efficient and comfortable space.

**Adam Moons** reiterated that **ASHRAE Bowling** was scheduled for the next day, and we had a record turnout, with lots of fun anticipated. **Abbey Saunders** raffled off two tickets to an Ottawa Senators game, generously donated by **Walmart**. The tickets were won by **Tom Chiykowski** from **Master Group**. **Georges Maamari** let the assembly know that we are preparing a new hard-copy roster, and to update their on-line profiles or get in touch with him with revised information to ensure the roster's accuracy.

There were two table tops presented. The first was **Schneider Electric**,

offering wireless sensors. The second was **Bousquet gas-fired equipment**, represented by **Master Group**.

The theme of the evening was **Research Promotion**, and **RP Chair Abbey Saunders** and **President Georges Maamari** spoke about last year's successful campaign, and thanked everyone for their support. They presented a number of certificates and coins for donor recognition, including **Hydro Ottawa**, who is our first local donor to achieve the Partner Level of support for a **\$5000** donation. Georges was presented with the **Hayes Award for Research Promotion Excellence in Region II**, well deserved for chairing the most successful campaign in the chapter's history.

A buffet dinner was served at **6:45**, and the raffle draw for the Senators tickets was held at **7:50**. At **7:54** **Mark Newman** from **NRC** spoke about NRC's role in emerging technologies, life science and engineering. He spoke about how NRC prefers to work with ESCO's, and the Sussex Rd. project had **9.3M** invested and a **869K** yearly return was expected, yielding approximately a **10 year** payback. NRC has invested **23.3M** nation wide for retrofits, and currently sees **2.8M** annually in energy savings.

**Dave Seymour**, VP of the Eastern Region, **Roy Samhaber**, Senior Project Manager, and **Rob Bohnen**, Project Engineer with **Ameresco** were all involved with the project.



**Past President Steve Moons**  
2015-2016  
OVC Past President  
**Total HVAC**

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They recognized **46%** energy savings on the S-77 project at Sussex Dr. Their method of progress is to determine the load for the space, determine the viability of the system, then consider the existing plant. If they can downsize the plant due to reduced loads or a more efficient system, they do so. They noted that much of the building was lab space, which has a **3-8** times higher equivalent kWh requirement to office space. The S-77 building now uses less energy than a similarly sized hospital. There were extensive upgrades to the fume hoods, including a change to VAV operation. Exhaust heat recovery was utilized via run-around glycol loops to make-up air handling pre-heat coils. Pneumatic controls on existing fan coils were changed out for DDC controls. They utilized steam heat recovery for the base building. The replaced and upgraded the existing RO water system to better serve the labs. There was also a lighting retrofit throughout the building. Further, they installed a high-efficiency hot water boiler plant, taking the building off central plant distribution for building steam. The presentation was well received, and several questions ensued, resulting in a good conversation of the topic. **Georges Maamari** closed the meeting at **9:10pm**.

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# ASHRAE OVC Seminar

**DATE:** Tuesday, March 15, 2016  
Half Day Seminar (1pm - 4pm)

**LOCATION:** Master Group  
25 Northside Road, Ottawa

**TOPIC:** New NBC vs OBC: Interpreting the Changes

**PRESENTER:** Judy Jeske

**COST:** MEMBER: 150\$ NON MEMBER: 175\$

## Key Elements:

Have you ever found yourself with an RFP that says "The one having the more stringent requirements shall apply"

- You counter...but they are completely different...such as where Fire Hose connections go in a Federal Government building versus a private sector building.
- In Ottawa we are constantly faced with these decisions...and sometimes they come back to haunt us.
- Further the Authority Having Jurisdiction (AHJ) is constantly shifting...can anyone still locate the number for HRSDC?
- Do you happen to know who the AHJ is at the Airport?
- What about Part 11 in the OBC...how does the NBC deal with changes?
- What about the need for Energy Models?
- If you would like a little help in understanding the changes in the new National Building Code, how to comply with them and the differences from the OBC.

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

## YEA Leadership

I would like to thank all members who attended the December YEA event at Tailgators. We had good mix of people which lead to great conversation and some awesome billiards matches.

January's monthly meeting will have a YEA theme, so I hope all of our young members make an effort to attend!

Having guest speaker **André Beauchamp** is a great tie-in to the

YEA theme. I think the millennial generation will find his topics very interesting.

The presentation is geared toward connected devices within our day to day electronic communication and how to approach this evolving segment of the HVAC industry.

I plan to have another YEA specific event in February, I will send an email once details have been confirmed.



**Committee Chair**

**Joe Della Valle**

2015-2016

YEA Chair

**Walmar Ventilation**

**E-mail:** joedellavalle@walmar.net

Thank you for your continued support!

# 2015-2016 Research Promotion Campaign

The **ASHRAE RP Campaign** raises over \$2.2 million annually from over 6,000 donors. Typically these donors are **ASHRAE** members, industry associations and industry organizations. To officially say thank you to all those who donated to last year's successful RP Campaign the **2014-2015 Donor Recognition Night** was held at the November Program meeting. Thanks to everyone for their support of last year's stellar campaign and a special shout to **Georges Maamari** winner of the prestigious **Hayward Murray Region II Research Promotion Award** for his outstanding efforts as RP chair for the **2014-2015** campaign.

To date we have managed to keep the momentum going from last year's campaign and have raised approximately **25%** of our **2015-2016 RP Campaign of \$27,000**. Great work everyone, and let's keep this

momentum going into the New Year! Remember no donation is too small, and all money raised goes to **ASHRAE Research Canada**.

The **November** program meeting RP raffle tickets for the **Feb. 4** Edmonton v. Ottawa game raised a total of **\$820** for **ASHRAE Research**, your support is fantastic! A special thanks to **Walmar Ventilation Products** for donating the tickets, and congratulations to **Tom Chiykowski** of **Master Group** winner of the tickets.

A list of current **2015-2016 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 **2015-2016 RP Campaign** are by clicking either of the links below.



**President-Elec Abbey Saunders**  
2015-2016  
Research Promotion  
**National Research Council Canada**

**E-mail:** [abbey.saunders@nrc-cnrc.gc.ca](mailto:abbey.saunders@nrc-cnrc.gc.ca)

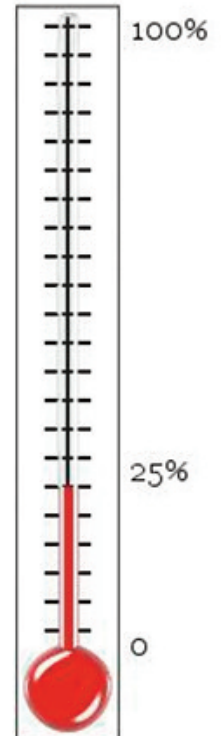
However, should you wish to make you donation using cheques, please make all cheques payable to **ASHRAE Research Canada**. My contact details are shown below, but I will gladly make arrangements to pick-up any cheques if need be.

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

**Abbey Saunders**  
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National Research Council Canada  
Bldg M-19, 1200 Montreal Road,  
Ottawa, ON K1A 0R6

ASHRAE OVC link: <https://ashraeottawa.simplesignup.ca/en/171/index.php?m=eventsList>  
ASHRAE Society link: <https://xp20.ashrae.org/secure/researchpromotion/rp.html>

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# 2015 Bowling Social

Ladies and Gentlemen,

The annual **Bowling Social** was held on **Wednesday, Nov. 18th** at the **Merivale Bowling Center**. Turnout was excellent this year, with 11 teams vying for the trophy. In the end, **Airtron** pulled out a victory by a slim 11 pin margin, retaking the title. **Aaron Dobson** of the victorious Airtron team was quoted as saying,

*"A good time was had by all."*

Thank you all for the participation and support! See you next year!

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**Governor**  
**Adam Moons**  
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# Membership Update

The Ottawa Valley Chapter would also like to introduce and welcome the following new member:

**Mr Rene Paris**  
**Mr James Pady**  
**Mr Jameson Wood**  
**Mr Matthew Morris**

I hope everyone had a wonderful holidays and a happy New Year.

Looking forward to seeing you at the next **ASHRAE** event!



**Committee Chair**  
**Celine Baribeau**  
2015-2016  
Membership  
Committee Co-chair  
**BPA**

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# Table Top Display

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

We are currently have some table top

openings for the **March** and **April** meetings.

The featured table-tops for the **January 19th** meeting are **Tracer™ Concierge System** by **Trane** and **Johnson Controls**.

Please contact **Shayan Mirza** to

## Committee Chair

**Shayan Mirza**

2015-2016

Table Top Committee Chair

**Total HVAC**

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

secure yours today! Cost for table tops is \$225 and spaces are filling up quickly, so book your table-top today!



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*The **Johnson Controls Metasys User Interface Allows** access to the Johnson Controls building automation system from any smart phone, tablet or computer using just a web browser. The 'UI' simplified access and mobile optimization make users more productive whether at their desk or "on the go", without installing client side software.*

*The easy to learn interface displays information using concepts that are familiar to users: their spaces and equipment. It clearly displays relationships between spaces, equipment and field devices. Automatically display all equipment serving a space, equipment serving equipment and field devices controlling equipment.*

# News Update

## IAQA Issues Comments on Proposed District of Columbia Mold Certification/Licensure Program

**ATLANTA** – Use of a licensed mold assessor for all regulated mold remediation projects should be required under a proposed certification and licensure program being proposed by the District of Columbia, says the **Indoor Air Quality Association (IAQA)**.

**IAQA** has issued public comments on a draft of licensure/certification regulations for mold assessment and remediation being developed by the Washington, D.C., **District Department of Environment (DDOE)**. Through regulation, **DDOE** hopes to prevent fraudulent operators from offering their services without being certified or licensed, thereby guaranteeing a basic level of competence in the performance of this activity.

**IAQA's** public comment included the following:

- The District should require the use of a licensed mold assessor for all regulated mold remediation projects. There should be no provision for an ability to waive this requirement. Among the types of remediation projects for which this requirement would be applicable, our members expressed consensus that this would be applicable to tenant occupied and/or not-owner occupied properties. Our members are very concerned about the negative impacts on property owners and residents if potential conflicts of interest are not prevented.
- If there is a relationship between an assessor and remediator working on the same project, that relationship must be disclosed.
- Remediators must be required to stipulate in writing that their customer has the right to utilize a third-party assessment or testing company.
- Licensing should exist for all individuals involved with mold assessment or remediation. In

addition, there was discussion of some criteria for entry level workers to work on a remediation project to gain the necessary experience to become fully licensed professional mold remediators or assessors. **IAQA** members would like to see that possibility explored in this current rulemaking process.

## Proposed ASHRAE/ACCA Standard for Energy Audits Open for Public Comment

**ATLANTA** – While energy audits are vital to ensuring energy efficient buildings, the audit industry has been largely unstructured. Work products that are labeled energy audits vary greatly in scope, rigor and quality.

A proposed standard from **ASHRAE** and the **Air Conditioning Contractors of America (ACCA)** would bring order to the "Wild West" of the energy audit industry.

**ASHRAE/ACCA Standard 211P, Standard for Commercial Building Energy Audits**, is open for public comment until **Jan. 4, 2016**. To comment or learn more, visit: [www.ashrae.org/publicreviews](http://www.ashrae.org/publicreviews).

**Standard 211P** will establish consistent practices for conducting and reporting energy audits for commercial buildings.

*"The standard has the potential to make a huge impact on completing energy saving projects in existing buildings," Jim Kelsey, chair of the Standard 211P Committee, said. "Currently there is no standard that defines what constitutes an energy audit. Most practitioners in the energy audit industry are trying to do the right thing for their clients by finding projects and quantifying energy and cost savings in energy audits. However, without a consistent standard, we have seen the quality and approach to energy auditing vary widely throughout the industry. Without standardization, it's been the Wild West out there – anyone who carries a clipboard and a camera can call themselves an energy auditor and their report an energy audit. What we hope to accomplish with this standard is to*



## Committee Chair

**Andrew Klassen**

2015-2016

OVC CTTC Chair

**Trane**

E-mail: [andrew.klassen@trane.com](mailto:andrew.klassen@trane.com)

*set appropriate minimum criteria for what approaches are expected, what information should be in an audit, and how that information is communicated to the end client."*

The standard will define the procedures required to perform **Energy Audits Levels 1, 2 and 3**; provide a common scope of work for these audit levels for use by building owners and others; establish standardized industry practices; and establish minimum reporting requirements for the results.

*"One new area that I'm excited about in the standard is electronic data exchange for audit results," Kelsey said. "In this version, we've adopted standardized reporting formats that are consistent with new tools to make it easy to transmit results to cities and agencies. This approach has several benefits to the energy world. First, consistent reporting enables energy auditors to streamline their processes. Currently, it is common for different customers to require different reporting formats which leads to a lot of customization for each job. Secondly, standard formats allow us to convert audit results to common data formats (such as BuildingSync XML). This makes it easier for cities, for example, to import audit results to a common database, rather than each agency requiring auditors to manually enter their results in the city's platform."*

**ASHRAE** first addressed audits in 2004 with its publication Procedures for Commercial Building Energy Audits (1st Ed), which introduced the concept of **ASHRAE Energy Audit Levels 1, 2 and 3** as a shorthand for designating the depth of an energy audit. That concept is now commonly used in the commercial building sector. In **2011**, a second edition, which added guidelines for best practices in energy audits, was published.



These books have been widely adopted, cited by rating programs and in cities like **New York** and **San Francisco** where local ordinances require energy audits for certain buildings.

*"However, the books were written as guides, not in code-enforceable, standard language," Kelsey said. "With the new standard, we will hone the clarity of those audit level definitions and make enforcement clearer, and potentially broaden the adoption of the ASHRAE audit levels."*

### **New Course on Legionella Standard among ASHRAE 2016 Winter Conference Courses**

**ATLANTA** – Guidance on how to reduce the risk of Legionnaires' Disease via a recently published standard will be shared in a new course from **ASHRAE** at its **2016 Winter Conference**. The course is one of **20 courses** being presented at the Conference and AHR Expo.

*"We've already seen the real-life application of this standard when sections of it were adopted by the New York City Council following a deadly outbreak there," **Bill Pearson**, course instructor who serves on the Standard 188 committee. "This course is designed to help prevent future outbreaks by showing the industry how to navigate the standard."*

The Conference takes place **Jan. 23-27, Orlando Hilton**, while the **ASHRAE** co-sponsored **AHR Expo** takes place **Jan. 25-27**, next door at the **Orange County Convention Center**. To register for the **ASHRAE Conference**, which includes free access to the Expo, visit: [www.ashrae.org/orlando](http://www.ashrae.org/orlando).

**ASHRAE Learning Institute (ALI)** is offering **20** high-quality, authoritative Professional Development Seminars and Short Courses. **ALI** courses provide training with real-world experiences for immediate application. Attendees can earn continuing education credits. For more information or to

register, visit: [www.ashrae.org/orlandocourses](http://www.ashrae.org/orlandocourses).

The new half-day Short Course, **ASHRAE Standard 188-2015 – Successfully Managing the Risk of Legionellosis**, focuses on **ANSI/ASHRAE Standard 188-2015, Legionellosis: Risk Management for Building Water Systems**, which establishes the minimum legionellosis risk management requirements for the design, construction, installation, commissioning, operation, maintenance and service of centralized building water systems and components. **Michael Patton**, a member of the **Standard 188** committee, also is an instructor of the course.

Attendees will learn how to use and comply with the standard; where Legionella propagates and who is at high risk for legionellosis; how to create a workable Legionella water management plan; and the responsibilities of project engineers and designers.

# ASHRAE Learning Institute

## Seminars & Courses at ASHRAE's Winter Conference in Orlando, FL

### 2 WAYS TO REGISTER

**Internet:** [www.ashrae.org/orlandocourses](http://www.ashrae.org/orlandocourses)

**Phone:** Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

### Full-Day Professional Development Seminars

\$485/\$395 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs

**Commercial Building Energy Audits**

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

**Energy Modeling Best Practices and Applications**

Tuesday, January 26, 2016 – 9:00 a.m. to 4:00 p.m.

**Commissioning Process in New & Existing Buildings**

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

**Operations & Maintenance of High-Performance Buildings**

Tuesday, January 26, 2016 – 9:00 a.m. to 4:00 p.m.

**Designing HVAC Systems to Control Noise & Vibrations**

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

### Half-Day Short Courses

\$159/\$119 ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs

**Laboratory Design: The Basics and Beyond**

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

**Advoiding IAQ Problems**

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

**Troubleshooting Humidity Control Problems**

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

**Commissioning Process & ASHRAE Standard 202**

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

**Understanding & Designing Dedicated Outdoor Air Systems**

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

**Complying with Standard 90.1-2013: HVAC/Mechanical**

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

**Variable Refrigerant Flow System Design & Applications **NEW!****

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

**ASHRAE Standard 188-2015 – Successfully Managing the Risk of Legionellosis **NEW!****

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

**Air-to-Air Energy Recovery Applications: Best Practices**

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

**Exceeding Standard 90.1-2013 to Meet LEED Requirements**

Monday, January 26, 2016 – 9:00 a.m. to 12:00 p.m.

**Applications of Standard 62.1-2013**

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

**IT Equipment Design Evolution & Data Center Operation Optimization**

Monday, January 26, 2016 – 9:00 a.m. to 12:00 p.m.

**Building Demand Response & the Coming Smart Grid**

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

**Designing High-Performance Healthcare HVAC**

Monday, January 26, 2016 – 1:00 p.m. to 4:00 p.m.

**Energy Management Best Practices**

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

## ASHRAE HVAC Design Training

### 2 Courses, 5 Days of Intense Instruction

Atlanta • Halifax • Hong Kong • Houston • Kuala Lumpur

Miami • Minneapolis • San Francisco • Vancouver

### **HVAC Design: Level I – Essentials** - Registration is \$1,264 (\$1,009 ASHRAE Member)

Gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

### **HVAC Design: Level II – Applications** - Registration is \$854 (\$699 ASHRAE Member)

*HVAC Design: Level II — Applications* provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit [www.ashrae.org/hvactraining](http://www.ashrae.org/hvactraining) to register.



# Mechanical Contractors Association of Ottawa



## SAVE THE DATE

### Fire Damper Installation & Kitchen Ventilation (NFPA96) Seminar

Presenter: Eli Howard - Executive Director  
SMACNA Technical Resources, Chantilly, Virginia

When: **Tuesday, February 9<sup>TH</sup>, 2016**

Where: Centurion Center,  
170 Colonnade Road South, Ottawa, ON

Time: 8:00 am – 4:00 pm (Lunch provided)

The seminar will be covering SMACNA Standards on the following material:

- Basics of Fire/Smoke Dampers
- Architect/Designer/Code Official Responsibilities
- Code Compliance for Fire/Smoke Dampers
- Smoke Removal/Control requirements
- NFPA 96 Kitchen Ventilation requirements
- Rectangular Welded Grease Duct Fabrication
- Kitchen Grease Duct Filtration Systems

### Registration information to follow

Watch the MCA Ottawa website ([www.mcaottawa.ca](http://www.mcaottawa.ca)) for registration details or email [info@mcaottawa.com](mailto:info@mcaottawa.com) for further information or to be added to the distribution list.

*Mechanical Contractors Association of Ottawa*

#401-2039 Robertson Road, Ottawa, ON K2H 8R2 Phone: 613-237-1491 Fax: 613-567-3177



# 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.

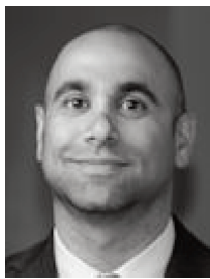
Rates for career opportunities ads are as follows:  
 Chapter Member: \$50/month  
 Non-member: \$250/month

## 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 online or for payment and other information contact **Adam Graham** at [Adam.Graham@hts.com](mailto:Adam.Graham@hts.com)

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.



**President**  
**Georges Maamari**  
 2015-2016  
 OVC President  
**BPA**

E-mail: [gmaamari@bpa.ca](mailto:gmaamari@bpa.ca)

# 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](mailto:rod@htseng.com) for more details.



**Publicity**  
 2015-2016 Publicity  
 Committee Co-Chair  
**HTS Engineering Ltd.**

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

 <p><b>MARK CSIFFARY P.ENG.</b>          President • <a href="mailto:mark@baxtec.com">mark@baxtec.com</a></p> <p>Office: 613-738-7450 Fax: 613-738-2973          Cell: 613-229-8277 <a href="http://www.baxtec.com">www.baxtec.com</a>          2470 Don Reid Drive, Ottawa, ON K1H 1E1</p> 	 <p><b>Sylvain Chenier, P. Eng., ing., LEED@AP</b>          Vice President - Mechanical  <a href="mailto:Sylvain.Chenier@mckeeottawa.ca">Sylvain.Chenier@mckeeottawa.ca</a></p> <p>1785 Woodward Drive          Ottawa, ON K2C 0P9          CANADA          Tel.: (613) 723-9585 x128          Fax.: (613) 723-9584  <a href="http://www.mckeeottawa.ca">www.mckeeottawa.ca</a></p>
 <p>Steve Moons          Principal</p> <p>Total HVAC Inc.          14A-190 Colonnade Rd., S.          Ottawa, Ontario          Canada, K2E 7J5</p> <p>Tel: (613) 723-4611          Fax: (613) 723-4677          Cel: (613) 229-5806          Email: <a href="mailto:stevem@totalhvac.com">stevem@totalhvac.com</a>          Web: <a href="http://www.totalhvac.com">www.totalhvac.com</a></p>	<p><b>Andrew Klassen</b>          Account Manager</p>  <p>1024 Morrison Drive          Ottawa, ON K2H 8K7          Cell 613 808 4054 Direct 613 356 1966          Tel 613 820 8111          Toll Free 888 872 6326  <a href="mailto:andrew.klassen@trane.com">andrew.klassen@trane.com</a>  <a href="http://www.trane.com">www.trane.com</a></p> 

# 2015-2016 President

Georges Maamari  
**President-Elect**  
 Abbey Saunders  
**Treasurer**  
 Adam Graham  
**Secretary**  
 Daniel Redmond  
**Governors**  
 Richard Cameron  
 Chris Fudge  
 Aaron Dobson  
 Chris Frauley  
 Adam Moons  
**Past President**  
 Steve Moons

## Committees Attendance

Sandy Taylor  
**Audit**  
 Stephen Lynch  
**Capital Communiqué**  
 Celine Baribeau  
**CRC**  
 Georges Maamari  
**CTTC**

## Government Affairs

Andrew Klassen  
**Grassroots**  
 Richard Cameron  
**Financial**  
 Sandy Taylor  
**Greeter**  
 Mike Swayne  
**History**

## Membership Promotion

Adam Moons  
 Celine Baribeau  
**Nominations & Awards**

## PAOE

Abbey Saunders  
**Program**  
 Jacob Hough  
**Research Promotion**  
 Abbey Saunders  
**Roster**

## Special Events

Georges Maamari  
 Chris Healey  
 Andrew Douma  
 Adam Moons  
 Steve Moons  
**Student Activities**  
 Adrienne Mitani  
**Table Top**  
 Shayan Mirza  
**YEA**

## Website

Joe Della Valle  
 Roderic Potter  
 January 2016