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ASHRAE Ottawa Valley Chapter

President's Message

Fellow ASHRAE members,

When I think of **Ottawa ASHRAE** and a descriptive word to describe our members, the first adjective that comes to mind is generous. Our members are generous in many aspects. Mentioning just two aspects of their generosity is an easy task such as their generosity with both finan-

cial resources and their time.



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

A case in point is that the Ottawa Valley chapter membership donated a total of \$38,946 to ASHRAE Re-

E-mail: gmaamari@bpa.ca

search for the 2014-2015 fiscal year ending on June 30, 2015. Out of region II, which includes the cities of Montreal, Toronto, Hamilton and Quebec City, we achieved the highest chapter membership donation to research.

With respect to our membership's time the generosity extends through attending the golf outings that benefit scholarships and research, serving on committees within our chapter and our region, and volunteering for the work that frankly keeps our chapter running smooth.

I would like to personally recognize and thank the other board members and committee chairs for their hard work and effort to make our chapter a success. All of which make things better for the chapter members and my job much easier. I'm pleased to say that we had a number of new people step up to join our local ASHRAE committees. We continue to need more help to enable our chapter to grow! Many other chapters struggle to get volunteers for committees and all of our committee chairmen should be commended for their admirable participation within our chapter.

2015-2016 will be another year of great programs, social events, and networking. No president can do this alone and we have a great group of volunteers who will be working hard to provide you with the technical topics to learn from, introduce you to ways to get involved, and creating fantastic outings where we can socialize and have fun. We are in the process of scheduling the topics for each meeting and have some excellent speakers lined up. We are also working on organising a few technical tours to showcase some recently completed projects around the city. We will be having our usual research promotion golf outing fund raisers, but we will also be bringing back the bowling and curling events that were a huge success last year. Be on the lookout for the when these dates are published, so you can put them on your calendar early!

I am very proud to be serving you this year and if there is anything I or one of our volunteers can do to better assist you, please let us know. Furthermore, we are always looking for those who are willing to dedicate their time to ASHRAE as a volunteer. Please let me know if you would like to help.

Finally, although I don't think I can fill his shoes, a special thanks to **Steve Moons** for leaving things in a manner that make it easier for me to step in this year. Enjoy the ASHRAE "off-season" and we look forward to seeing you at our next chapter event!

Yours truly, Georges Maamari 2015-2016 OVC President

2015 Chapter Regional **Conference (CRC)**

The 2015 Region II Chapter Regional Conference (CRC) will be hosted by the **Hamilton Chapter** at the Sheraton Hamilton Hotel at **Jackson Square**. For those new to ASHRAE, the term Chapters Regional Conference ("CRC") defines a meeting of all the chapters of the region. The Director and Regional Chair (DRC) conducts the Chapter's Regional Committee including orientation session and business meetings. The Region's Nominating Member conducts the Chapter Regional Committee caucus and executive sessions. The CRC agenda consists of 3 days of various business meetings, technical sessions, addresses by Society officers, Society staff, regional award presentations and offers opportunities for regional fellowship. Items discussed include:

Chapters to report their activi-

ties for the previous year and establish goals for the coming year.

- Regional officers to report their activities and plans.
- Society officers and staff to inform the region of Society plans, review chapter activities within the region and participate in workshops.
- Chapter delegates to submit motions for proper review.
- Chapter delegates to present nominees for Society and regional offices and candidates for honors and awards.
- Conducting chapter workshops that will educate and prepare officers and committee members to fulfill their responsibilities.
- Conducting technical sessions



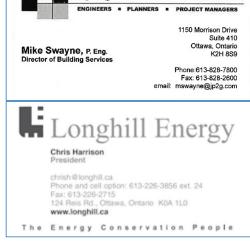
President Georges Maamari 2015-2016 **OVC President BPA**

E-mail: gmaamari@bpa.ca

on subjects that will educate as well as increase attendance.

- Organizing social activities that will increase attendance and promote camaraderie.
- Recognizing and presenting awards to chapter and regional members.

I am confident that the **Hamilton Chapter** will put together a fantastic **CRC**. With the many new faces we have as committee chairs, the CRC will prove to be a great learning experience for them and beneficial to our chapter.



Jp2g Consultants Inc.







Summer 2015 Capital Communiqué

Membership Update

Greetings Everyone!

I am happy to introduce myself as the new Membership Promotion cochair for the **Ottawa Valley Chapter** along with **Adam Moons**. Our main goal for the upcoming year is to maintain the growth of the **OVC** by offering the local engineering community an opportunity to network, and take advantage of the many benefits of **ASHRAE** membership. **ASHRAE** is the largest international organization focused on shaping the built environment, with over 54,000 members in 128 countries.

I hope that everyone is enjoying their summer and is excited to take part in the new **ASHRAE** season ahead of

I would also like to introduce and welcome the following new members who joined the **OVC** over the months of June and July:

Mr Jeffrey D. Schroeder Ms Elizabeth Girgis Mr Mathieu Latouche Mr Selmaan Qureshi Mr Mark Kenneth Pavelich



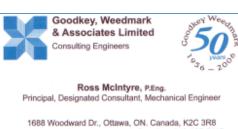
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Chair
Celine Baribeau
2015-2016
Membership
Committee Co-chair
BPA

E-mail: cbaribeau@bpa.ca

Ms Marlene McLelland Mr Sebastien Brideau Mr John-Paul Yaraskavitch

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





Telephone: 613-727-5111 ext. 239 Fax: 613-727-5115 rossmc@gwal.com

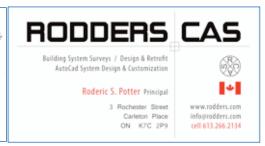


Table Top Display

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 50+ people.

Please contact **Shayan Mirza** at the email below to secure yours today! Cost for table tops is \$225 and spaces are filling up quickly, so book your table-top today!

Committee Chair

Shayan Mirza

2015-2016

Table Top Committee Chair

Total HVAC

E-mail: shayanm@totalhvac.com

We are currently starting to reserve table-top openings for upcoming ASHRAE year.







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Young Engineers in ASHRAE

Hi Everyone!

I hope all are having a great summer so far. I have been reviewing past **YEA** events and have started to work out a few for the upcoming year.

Please keep an eye on your inbox near the end of August as I will be sending out an invitation for the first **YEA** event to be held late September.

If there is anything that you would like to see for future events please let me know.

I am always interested in finding ways to better serve our membership.



KIVIC

Committee Chair Joe Della Valle 2015-2016 YEA Chair Walmar Ventilation

E-mail: joedellavalle@walmar.net

Looking forward to seeing you out.

Capital Communiqué

Summer 2015

News Update

KEEPING OCCUPANTS COMFORT-ABLE WITHOUT RAISING EN-ERGY COSTS

ATLANTA – Keeping building occupants comfortable while minimizing energy use is a balancing act for engineers who design HVAC&R systems and buildings. One way they can achieve this balance is through requirements in a standard from an international technical association.

ASHRAE's **Standard 55**, Thermal Environmental Conditions for Human Occupancy, specifies the combinations of indoor thermal environmental factors and personal factors that will produce thermal environmental conditions acceptable to a majority of the occupants within the space.

Earlier this week, research that looks at the method used to determine thermal comfort in **Standard 55** was published via an article, "Energy Consumption in Buildings and Female Thermal Demand," in Nature Climate Change. The research looks at the method used to determine thermal comfort in **ANSI/ASHRAE Standard 55**.

"The interpretation of the authors regarding the basis for Standard 55 is not correct," Bjarne Olesen, Ph.D., a member of the ASHRAE Board of **Directors**, internationally renowned thermal comfort research and former chair of the Standard 55 committee, said. "The part of the standard they are referring to is the use of the PMV/PPD index. This method is taken from an ISO/EN standard 7730, which has existed since 1982. The basic research for establishing comfort criteria for the indoor environment was made with more than 1,000 subjects with equal amount of women and men.

"In the main studies, where they did the same sedentary work and wore the same type of clothing, there were no differences between the preferred temperature for men and women. So the researchers' finding of a lower metabolic rate for females will not influence the recommended temperatures in the existing standards. Also their study is not conclusive. They only studied 16 females at a sedentary activity. They should also have studied 16 men at the same activity to be able to compare. The reason why we, in some field studies, find that women prefer higher room temperature than men is attributed to the level of clothing. Women adapt better their clothing to summer conditions while men are still wearing suit and tie. So if the thermostat is set to satisfy the men, the women will complain about being too cold. In the standard, this adaption of clothing to summer is taken into account so if the standard is followed the women would be satisfied; but maybe not the men."

ASHRAE President David Underwood notes that the standard has been continually refined and updated since it was first published in 1966, reflecting changes in the industry and new research as it becomes available. Standard 55 is based on an earlier document developed in 1938 by two predecessor societies of ASHRAE, titled Code for Minimum Requirements for Comfort Air Conditioning.

"The standard continues to focus on defining the range of indoor thermal environmental conditions acceptable to a majority of occupants, while also accommodating an ever increasing variety of design solutions intended to provide comfort and to respect today's imperative for sustainable buildings," **Underwood** said.

Olesen notes the researchers should have consulted other studies and technical guidance.

"They should also have looked at the ASHRAE Handbook, Fundamentals, which explains the background for the standard and addresses differences between men and women, young and elderly, etc. with literature references," he said.

In their paper, researchers **Boris Kingma** and **Wouter van Marken Lichtenbelt** state, "Energy consumption of residential buildings and offices adds up to about 30 percent of total carbon dioxide emissions; and occupant behavior contributes to 80 percent of the variation in energy consumption. Indoor climate regulations are based on an empirical thermal comfort model that was developed in the 1960s. Standard values for one of its primary variables—metabolic rate—are based on an average male, and may overesti-



Secretary
Daniel Redmond
2015-2016
OVC Secretary
MMM Group

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mate female metabolic rate by up to 35 percent. This may cause buildings to be intrinsically non energy-efficient in providing comfort to females. Therefore, we make a case to use actual metabolic rates. Moreover, with a biophysical analysis we illustrate the effect of miscalculating metabolic rate on female thermal demand. The approach is fundamentally different from current empirical thermal comfort models and builds up predictions from the physical and physiological constraints, rather than statistical association to thermal comfort. It provides a substantiation of the thermal comfort standard on the population level and adds flexibility to predict thermal demand of subpopulations and individuals. Ultimately, an accurate representation of thermal demand of all occupants leads to actual energy consumption predictions and real energy savings of buildings that are designed and operated by the buildings services community."

NUMEROUS STANDARDS, ADDENDA OPEN FOR REVIEW - ASHRAE PUBLIC REVIEW PROCESS MAKES FOR STRONGER STANDARDS

ATLANTA – Thirty proposed addenda and as well as actions related to several other **ASHRAE** standards and guidelines are open for public review, which allows interested parties to comment on the technical guidance contained in the documents.

"The public review process allows interested parties to give input into development of standards and their related addenda and guidelines," Jim Vallort, an ASHRAE vice president and chair of the Society's Technology Council, which oversees standard development. "Through public review, our goal is to reach consensus, ensuring publication of a document that has been rigorously examined, questioned and defended. ASHRAE standards are strengthened by virtue of having been through this process." The addenda, standards and quide-

line actions were approved for public comment at the **ASHRAE 2015 Annual Conference**, June 27-July 1. Addenda to major standards open for review include **ASHRAE** standards related to thermal comfort, ventilation and indoor air quality in residences, high performing buildings, building automation and energy efficiency.

A complete listing can be found under the documents for July 17 and July 24, 2015 at:

www.ashrae.org/standardsactions

Among the actions available for public comment are:

Public Review, July 17-Aug. 16, 2015

- o Addendum f to Standard 15-2013, Thermal Environmental Conditions for Human Occupancy
- o Addenda c, I and n to Standard 62.2-2013, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings
- o Addenda ar, ay, az, ba, bb, bc, bd, bf, bh, bi, bj, bk, bl, bn, bo, bp and bq to Standard 90.1-2013, Energy Standard for Buildings Except Low-Rise Residential Buildings

Public Review, July 17-Aug. 31, 2015

- o Addendum m to Standard 62.2-2013, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings
- o Addenda bg and y to Standard 90.1-2013, Energy Standard for Buildings Except Low-Rise Residential Buildings

Public Review, July 24-Aug. 23, 2015

o Addenda d, e, f and g to Standard 189.1-2014, Standard for the Design of High-Performance Buildings Except Low-Rise Residential Buildings

• Public Review, July 24-Sept. 7, 2015

o Addenda aj, be and bf to Standard 135-2012, BACnet – a Data Communications Protocol for Building Automation and Control Networks

New Projects Call for Comments, July 17-Aug. 16, 2015

- o Standard 41.12P, Standard Methods for Uncertainty Analysis
- o Standard 219P, Method of Testing the Ability of Liquid Line Filter Driers or Adsorbents to Remove Organic and Inorganic Acid

New Revision Projects

- o Guideline 1.5-2015, The Commissioning Process for Smoke Control Systems
- o Guideline 22-2012, Instrumentation for Monitoring Central Chilled-Water Plant Efficiency
- o Guideline 32-2012, Sustainable, High-Performance Operations and Maintenance

Title/Purpose/Scope Changes

- o SPC 25, Methods of Testing Forced Convection and Natural Convection Air Coolers for Refrigeration
- o SSCP 55, Thermal Environmental Conditions for Human Occupancy
- o SPC 90.4, Energy Standard for Data Centers
- o SPC 175, Metal Pressure Vessel Methods to Test Materials Used in Refrigeration Systems (Redesignated as GPC 38P)
- o SPC 177P, Method of Test for Measuring Fractionated Compositions of Refrigerant Blends (Redesignated as GPC 39P)

Call for Members

- o GPC 1.5-2012R, The Commissioning Process for Smoke Control Systems
- o GPC 22-2012R, Instrumentation for Monitoring Central Chilled-Water Plant Efficiency
- o GPC 32-2012R, Sustainable, High-Performance Operations and Maintenance
- o SPC 41.12P, Standard Methods for Uncertainty Analysis

ASHRAE, IAQA OFFER DUAL MEM-BERSHIP PROGRAM

ATLANTA – A new dual membership program is available to members of ASHRAE and the Indoor Air Quality Association (IAQA) as part of consolidation between the two groups finalized earlier this year.

ASHRAE and IAQA announced last year that they were joining forces to combine resources to improve indoor air quality in the built environment. Under the dual membership program, ASHRAE Members and Associate Members can join IAQA as individual members for \$131. Individual IAQA members can join ASHRAE for \$151. Both are provided with the regular benefits of individual membership in the other association.

ASHRAE, through publishing, education, standards writing and research, offers building design and operation guidance. **IAQA** focuses on providing information on the quality of the indoor environment including updates on governmental and regulatory activity.

"A joint ASHRAE/IAQA membership will allow the IAQA member to access detailed ASHRAE research and combine this with practical application within the IAQA network," ASHRAE President David Underwood said. "We are excited to offer this dual membership program and encourage all interested members to participate."

"The joint IAQA/ASHRAE membership opens great possibilities for both associations to come together and make a real difference for both the public and the industry as a whole," IAQA President Kent Rawhouser said.

ASHRAE members interested in joining **IAQA** should call 844-802-4103 to join, and visit:

www.ashrae.org/joiniaqa to learn more about the about the IAQA membership offer.

IAQA members interested in joining **ASHRAE** should call 404-636-8400 and visit:

www.iaqa.org/ashrae-discount to learn more about the ASHRAE membership offer.

The Indoor Air Quality Association (IAQA) is a nonprofit organization dedicated to bringing practitioners together to prevent and solve indoor environmental problems for the benefit of customers and the public. IAQA was established in 1995 and is the nation's largest indoor air quality trade association with over 2,000 members and some 15 local chapters. More information is available at www.iaqa.org/news

Capital Communiqué Summer 2015

2014-2015 Research **Promotion Campaign**

The final results are in, and our 2014-2015 Research Promotion Campaign ended with a smash! In the last month, the RP committee was able to secure some substantial donations, allowing us to greatly surpass our \$25,000 objective. In total, the Ottawa Valley Chapter was successful in raising \$38,946 towards research. I can't say enough how impressed I am of our chapter's generosity. This just shows you how dedicated our members and local industry are towards supporting and advancing ASHRAE. All of these donation will help fund research projects withing our Region.

As part of this campaign, our chapter was able to procure our very first ASHRAE Partner donor, Hydro Ottawa, who generously donated \$5,000 towards Research. In fact, Hydro Ottawa was able to earmark their donation towards a research project currently taking place at Carleton University. A special thanks to Kevin Quinlan from Hydro Ottawa who helped secure this donation. We will be hearing more from Hydro Ottawa in the upcoming program year on other ways they can assist our **ASHRAE** community.

At the May meeting, we raffled off 2 tickets to the Ottawa RedBlacks home opener vs BC Lions, which were generously donated by InAir **Environmental.** These tickets helped raise \$500 towards ASHRAE Research.

Again thank you all for making it easy this year with your contributions. Abbey Saunders will be taking over as RP Chair for Society Year 2015-2016 please extend your generosity next year and help her meet the Chapter's next challenge.

Thank you for your continued support of ASHRAE Research Canada!



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

E-mail: gmaamari@bpa.ca





Steve Moons Principal

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Capital Communiqué Summer 2015

ASHRAE Golf Tournament

A big Thank You goes out to all those who participated and volunteered in the 2015 ASHRAE Golf Tourna**ment**. The staff at The Marshes put on a great event while we enjoyed fantastic weather and a wonderful day of golf.

Congratulations to this year's event winner Team Thermec, Tim Pulleybank and his team once again brought the golf course to its knees. Well done Gentlemen.

I would especially like to thank the many volunteers who generously gave their time to this event. **Stan** Millross, Cathy Godin, Steve Moons, Richard Albert and Aaron **Dobson** among others all offered great support.

I would also like to thank all the companies that participated in this year's event and the many companies that sponsored the tournament. This vear's edition of the tournament was a sell out and the level of sponsorship was very good.

Thanks to the efforts and support of everybody this year's golf tournament was able to raise almost \$4,500 for **ASHRAE Research** and for the Ottawa Valley Chapter. money will be staying in Canada and will be going towards further research and development of standards and guide lines that will benefit our industry.



Committee Chair Andrew Douma 2015-2016 Special Events Chair **Total HVAC**

E-mail: andrewd@totalhvac.com

Thanks again to everybody for their support of the ASHRAE Golf Tournament and we look forward to seeing everybody again next year.

Sincerely,

Your 2015 ASHRAE Golf Tournament Organizing Committee





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ASHRAE Stroke Play Golf Tournament

Ladies and Gentlemen.

We are proud to continue the **ASHRAE Stroke Play Golf Cham**pionship again this year.

The intent of this golf tournament is to encourage the fellowship and camaraderie that **ASHRAE** is known for. To that end, golfers of all abilities are welcome to participate. That said, we will play the game as per **RCGA** rules in a stroke play format. There will be no flights or handicaps applied, and the lowest score on the day will win. There will be no Mulligans, do-overs, footwedges or gimmies, and a handout outlining some of the rules to remember will be provided. As this is a purely social event, there will be no auctions, prizes or sponsorship, just an enjoyable, competitive round of golf.

The tournament will be held on Friday, Sept. 25th, 2015. We are very fortunate to be able to move the event to one of the premium local facilities at Kanata Lakes Golf & **Country Club**. The registration will be done on-line, via the link in this email. Registration will start at 9:30am; first tee time will be at 11:06am. We will assign the participants into foursomes, teeing off in succession. Registrant's final tee times will be dependent on the total number of entrants. Your registration fee of \$90 includes green fees and cart only. Meals and beverages can be purchased individually at the course on the day of the tournament. Space is limited, and spots will be first-come, firstserved.

Please register on-line through the



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

E-mail: stevem@totalhvac.com

Simple Signup website, link below. Participants will be contacted before the tournament to be given their tee time and last minute details. If you have any questions, or need more information, please contact:

Total HVAC Inc c/o **Steve Moons** 14A - 190 Colonnade Rd., S. Ottawa, ON, K2E 7J5 Phone (613) 723-4611 (613) 723-4677 Email stevem@totalhvac.com

Registration link: https://ashraeottawa.simplesignup.ca/en/1086/index.php?m=eventSummary

Summer 2015 Capital Communiqué

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

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

E-mail: gmaamari@bpa.ca

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

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.

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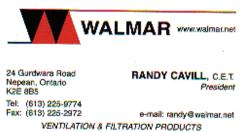


Publicity 2015-2016 Publicity Committee Co-Chair HTS Engineering Ltd.

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The cost is \$250.00 for the year. Please contact **Rod Lancefield** at *rodl@htseng.com* for more details.





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