



### 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 financial resources and their time.

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



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

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

# 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](mailto: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.

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 Director of Building Services

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 Fax: 613-828-2600  
 email: [mswayne@jp2g.com](mailto:mswayne@jp2g.com)

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**Chris Harrison**  
 President

[chrish@longhill.ca](mailto:chrish@longhill.ca)  
 Phone and cell option: 613-226-3856 ext. 24  
 Fax: 613-226-2715  
 124 Reis Rd., Ottawa, Ontario K0A 1L0  
[www.longhill.ca](http://www.longhill.ca)

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**Jim Mills, P.Eng., ing., LEED AP**  
 Director, Mechanical Group

T 613-829-2800, ext. 19108  
 F 613-829-8299  
 C 613-240-2746  
[jim.mills@wspgroup.com](mailto:jim.mills@wspgroup.com)

WSP Canada Inc.  
 2611 Queensview Drive, Suite 300  
 Ottawa ON K2B 8K2  
[www.wspgroup.com](http://www.wspgroup.com)

# Membership Update

## Greetings Everyone!

I am happy to introduce myself as the new Membership Promotion co-chair 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 us!

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**



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

E-mail: [cbaribeau@bpa.ca](mailto: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!**

**DANNY DILLON, GSC**  
 PRESIDENT

1481 Cyrville Road  
 Ottawa, ON K1B 3L7  
 Ph. 613.741.7731  
 Cell. 613.880.8904  
 Fax. 613.741.9962  
 danny@dilfo.com

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 Consulting Engineers

**Ross McIntyre, P.Eng.**  
 Principal, Designated Consultant, Mechanical Engineer

1688 Woodward Dr., Ottawa, ON, Canada, K2C 3R8  
 Telephone: 613-727-5111 ext. 239 Fax: 613-727-5115  
[rossmc@gwal.com](mailto:rossmc@gwal.com)

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 ON K7C 2P9

[www.rodgers.com](http://www.rodgers.com)  
[info@rodgers.com](mailto:info@rodgers.com)  
 cell 613.266.2134

# 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!

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

## Committee Chair

### Shayan Mirza

2015-2016  
 Table Top Committee Chair  
**Total HVAC**

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

**Rod Lancefield, P.Eng., LEED\*AP**  
 Engineering Sales  
[rod@htseng.com](mailto:rod@htseng.com)  
 C 613.851.1997

**HTS Ottawa**  
 1646 Woodward Dr.  
 Ottawa, Ontario K2C 3R8  
 T 613.728.7400 Ext.221  
 F 613.728.8032  
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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.

**YEA** event to be held late **September**.

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

Please keep an eye on your inbox near the end of **August** as I will be sending out an invitation for the first

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



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

E-mail: [joedellavalle@walmar.net](mailto:joedellavalle@walmar.net)

Looking forward to seeing you out.

# News Update

## KEEPING OCCUPANTS COMFORTABLE WITHOUT RAISING ENERGY 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**

E-mail: [RedmondDan@mmm.ca](mailto:RedmondDan@mmm.ca)

*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 guide-

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](http://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, l 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 MEMBERSHIP 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](http://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](http://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](http://www.iaqa.org/news)

# 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 donations will help fund research projects within 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 dona-

tion. 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](mailto:gmaamari@bpa.ca)



**TOTAL HVAC**

Steve Moons  
Principal

Total HVAC Inc.  
14A-190 Colonnade Rd., S.  
Ottawa, Ontario  
Canada, K2E 7J5

Tel: (613) 723-4611  
Fax: (613) 723-4677  
Cel: (613) 229-5806  
Email: [stevem@totalhvac.com](mailto:stevem@totalhvac.com)  
Web: [www.totalhvac.com](http://www.totalhvac.com)

Andrew Klassen  
Account Manager

**TRANE**

1024 Morrison Drive  
Ottawa, ON K2H 8K7  
Cell 613 808 4054 Direct 613 356 1966  
Tel 613 820 8111  
Toll Free 888 872 6326  
[andrew.klassen@trane.com](mailto:andrew.klassen@trane.com)  
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Sylvain Chenier, P. Eng., ing., LEED® AP  
Vice President - Mechanical  
[Sylvain.Chenier@mckeeottawa.ca](mailto:Sylvain.Chenier@mckeeottawa.ca)

1785 Woodward Drive  
Ottawa, ON K2C 0P9  
CANADA  
Tel.: (613) 723-9585 x128  
Fax.: (613) 723-9584  
[www.mckeeottawa.ca](http://www.mckeeottawa.ca)

**Smith + Andersen**

David Eastwood P.Eng.  
Principal  
613 2301186 ext. 403  
[david.eastwood@smithandandersen.com](mailto:david.eastwood@smithandandersen.com)

1600 Carling Avenue Suite 530 Ottawa Ontario K1Z 1G3  
t 613 2301186 f 613 2302598 [smithandandersen.com](mailto:smithandandersen.com)

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David Yin, P.Eng., LEED AP  
Senior Associate, Buildings Engineering

Stantec  
400 - 1331 Clyde Avenue, Ottawa ON K2C 3G4  
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# ASHRAE Golf Tournament

A big Thank You goes out to all those who participated and volunteered in the **2015 ASHRAE Golf Tournament**. 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 year'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**. This 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](mailto: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**

**BAXTEC**  
Mechanical Services  
Your energy savings partner  
MARK CSIFFARY P.ENG.  
President • mark@baxtec.com  
Office: 613-738-7450 Fax: 613-738-2973  
Cell: 613-229-8277 www.baxtec.com  
2470 Don Reid Drive, Ottawa, ON K1H 1E1 A member of **CNIG**

Daniel Chouinard G. S. C.  
VP of Operations  
Cell: (613) 978-2334  
**S & R**  
MECHANICAL  
Division of 681281 Ontario Inc.  
2035 Lanthier Dr., Cumberland, Ontario K4A 3V3  
Tel: (613) 830-0265 ext. 134 • Fax: (613) 830-9152  
dchouinard@srmech.com

**SIEMENS** Infrastructure and Cities  
Siemens Canada Limited  
Building Technologies Division  
3030 Conroy Road, Suite 100  
Ottawa, Ontario  
K1G 6C2 / Canada  
Tel: (613) 733-9781 ext. 2099  
Fax: (613) 737-4985  
Cell: (613) 614-7165  
atma.anantram@siemens.com  
Atma Anantram P. Eng.  
Account Executive

# ASHRAE Stroke Play Golf Tournament

Ladies and Gentlemen,

We are proud to continue the **ASHRAE Stroke Play Golf Championship** 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, foot-wedges 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 dependant 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, first-served.

Please register on-line through the

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



**Past President Steve Moons**

2015-2016

OVC Past-President

**Total HVAC**

E-mail: [stevem@totalhvac.com](mailto: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  
Fax (613) 723-4677  
Email [stevem@totalhvac.com](mailto:stevem@totalhvac.com)



