ASHRAE Ottawa Valley

Tuesday April 15, 2014 (Social: 17:30,Dinner:18:30,Program: 20:00)

- **LOCATION:** Algonquin College Restaurant International 1385 Woodroffe Ave, Building H, Room H100
- THEME: Research
- **PROGRAM:** Ventilation and Heat Recovery in MURBs: Building science, code requirements and energy efficiency
- SPEAKER: Steve Kemp, P.Eng., M.A.Sc. MMM Group, Manager (Buildings – Sustainability), Partner

Steve Kemp is one of Canada's foremost energy modelling and energy efficiency technology experts; having modeled dozens of green building projects with EE4 and eQuest. With more than 17 years of experience in green building energy modelling and design, Steve is skilled in a variety of innovative technologies including geothermal energy, solar power generation, solar hot water, 'smart' lighting control, thermal storage, rainwater reuse, co-generation, and heat recovery. He is an experienced developer of engineering software and building research; proficient in district energy and community renewable energy systems. Steve oversees the firm's buildings – sustainability team; with extensive experience in coordinating overall project direction, technical and quality control review, resource allocation, financial management, and the coordination of sustainability aspects of green building projects.

OVERVIEW:

This presentation will review the methods of providing ventilation air in MURBs (Multi-Unit Residential Buildings) as well as the challenges of traditional approaches with respect to indoor air quality. The ventilation and energy code requirements will be reviewed to provide a framework for designing code compliant and energy efficient MURBs.

April Meeting Menu

Menu - To be Announced 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 If you are a vegetarian, ask the server for a list of options

Chapter Members: \$40.00 Guests: \$60.00 Student Members: \$30.00 Life or Fellow: \$40.00 Space is limited so please register online at: https://ashraeottawa.simplesignup.ca/en/392/index.php?m=eventSummary

Registration will close on Thursday April 10th. Pre-registration is required as the venue requires confirmed numbers that the chapter must commit to pay for at this time.

President's Message

As some of you may remember I was Chapter Historian for a few years and because I also controlled the website I was in a very advantageous position - not only could I dig up interesting tidbits - I could also easily post them for all to see.

Over recent months my mind has been on other things, helped enormously by the steadfast work being handled by our own **Aaron Dobson**, who has tirelessly taken on the role of Historian, his trusty camera in hand at virtually every OVC event. He even posts the photos on Picasa without my input and all I have to do now is link to the albums (sweet).

So recently I was cleaning out my pit of an office when as expected I came across some old **ASHRAE** Historian worksheets that reminded me of what I was planning to do "next". It involved proper posted recognition of "Service History" for our members across the years. The website already recognizes people for their hard work but generally only when they have served on the Board, i.e. Governor level and above. We all know that there is a great deal of work undertaken on the various committees behind the scenes, which is also entirely worthy of recognition, so over the past few days I have been adding Service History pages to the website.

Thus far I have created the page for each Chapter President right back to 1952, and I am now gradually adding the pages for people that never went that far (but could well have devoted a great deal of time and energy to the Chapter). The Service History pages are quite revealing because they instantly make clear just how much precious time individuals have given up - to make the OVC clock tick reliably. They also show all of the photos currently filed for the person - and it is sometimes fun to compare hairstyles through the years. I had to laugh the other day when I was building the page for **Bob Kilpatrick** - and was reminded that in the 1990's he sported a Pancho Villa moustache. Take a look at his photo from the 1993-1994 Chapter Year and see what you think:



President & CRC Delegate Roderic Potter 2013-2014 OVC President Rodders CAS E-mail: rod@rodders.com

Bob has been under the weather over recent months and his role as Nominations & Awards Chair has been graciously accepted temporarily by Past-President Stephen Lynch. It was pleasing to build Bob's History page and let him know that although he is "away from his desk", he is not forgotten by his friends. We can expect Stephen to announce the proposed succession plan for the 2014-2015 Chapter Year at our April 15th meeting, and I expect my colleague Steve Moons will be blessed with a strong team for his Presidential year. Hopefully Bob will be back in action as part of that team!

Cheers from the desk of Rodders CAS

Photo Link: http://www.ashrae.ottawa.on.ca/ashrae-ovc_history/ExecBio/Bob_Kilpatrick.shtml

Research Promotion

Hi, Everyone:

As I write this, it is snowing (again!), and it doesn't seem like spring will ever get here, even if the calendar says it **IS** spring! But time moves faster than we realize, and soon it will be the end of the Research Promotion drive for this year. If you have been procrastinating about donating this year, now is the time to make your donation. In April, we will begin our calling drive, and you can expect a call from one of the RP team soon. Be ready with your donation, and the phone call can be short and to the point. We really appreciate all of your donations!

Please contact any member of the RP team to make a donation to this year's campaign. You can also make a donation through the OVC website

At the March Chapter meeting, our monthly raffle for Senators tickets again raised funds for research promotion. Also, there were an extra set of Senator tickets donated, and we raised more RP funds. Thanks to all of the donors this year, your donations have been much appreciated! We are still seeking donations of tickets or other items for the upcoming Chapter meetings in April and May. Please contact myself or **Steve Moons** if you have an excellent item to donate.



Past President Donald Weekes 2013-2014 Chapter Research Promotion Chair InAIR Environmental Ltd.

E-mail: don.weekes@inairenvironmental.ca

For this year, our RP team members are: **Donald Weekes** (co-Chair), **Steve Moons** (co-Chair), **Bob Kilpatrick**, **Cathy Godin**, **Christine Kemp**, and **Mike Swayne**. I am most grateful to the RP team for all of their efforts!

Donald Weekes RP Team Chair (2013-4 campaign)

ASHRAE OVC link: https://ashraeottawa.simplesignup.ca/en/171/index.php?m=eventsList

What You Missed March Meeting

The March meeting took place at Algonguin College Restaurant International. The meeting was called to order by President Rod Potter at 6:35pm and attendees were seated for dinner.

The business session commenced with President Rod Potter introducing the Board of Governors and Executive followed by Abbey **Saunders** introducing the evening's quests and Adam Moons introducing the new members.

Adrianne Mitani quickly recapped the success of the career fair that took place prior to the evening session.

Next representatives from Walmar introduced their Table Tops for the evening which included Armstrong Pumps and Laars MagnaTherm Boilers.

Stephen Lynch reminded everyone of the upcoming nominations reguirements for the Board and Executive positions within the local chapter. Mr. Lynch also encouraged anyone with nomination suggestions to approach the Nominations and Awards Committee or any member of the BOG.

During social hour the research committee raffled off two sets of Senators tickets, donated by Airtron and Clemant-Marchand. The raffle raised \$250 for ASHRAE Research, with Adam Moons and Jean Traynor the lucky winners.

President-Elect Steve Moons then informed meeting participants that all members who donate to ASHRAE Research prior to March 29 will be eligible to enter a draw for a set of 4 Senators tick- E-mail: abbey.saunders@nrc-cnrc.gc.ca ets to the March 30 game donated by Engineered Air.

Following the business session, attendees enjoyed a multi-course à la carte menu which featured an assortment of delicious dishes that were well received.

The evening program commenced with Mr. Moore introducing his presentation outline for ASRHAE Standard 90.1, As It Applies to Pumping.

To start Mr. Moore reviewed the two (2) main points of ASHRAE Standard 90.1 associated with pumping:

 Systems shall have a control valve to reduce system flow to 50% design day flow.

 Systems shall have controls to reduce pump energy to 70% at 50% design day flow.

Next the objectives of the presentation were established with importance focused on pump sizing and various strategies for control.

Due to the fact that design conditions occur for only a fraction of the year, most often pumping system operate at part load. Typical HVAC applications have pumps operating the majority of the time under part load conditions.



Secretary Abbey Saunders 2013-2014 OVC Secretary **NRC-CNRC**

Next we reviewed the typical procedures to follow when selecting an appropriate constant speed pump for a particular application. Factors to be considered during selection of an appropriate constant speed pump include:

- Determine flow.
- Calculate head.

 Select pump based on design point efficiency on the pump curves.

- Select a non-overloading motor to protect from run out.
- Select the best available efficiency point.
- Trim the impeller to duty point.

The programming of variable speed pumps provides the overload protection, as the program will not allow the pumps to operate outside their allowable limits.

The cost savings associated with decreasing BHP were reviewed next to help establish why variable speed pumping is attractive from an energy management standpoint.



Capital Communiqué

Through the use of various pump curve comparison scenarios control strategies for pumps were reviewed, but first we reviewed the pump affinity laws.

In summary Mr. Moore went through the evolution of pump control:

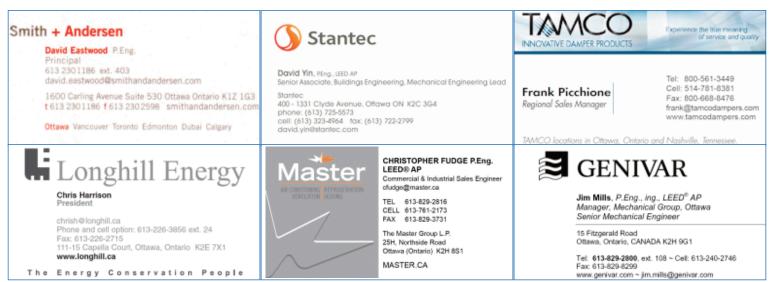
- 3-way valves.
- Throttling valves.

• Variable speed drive with no DP sensor.

• Variable speed drive with DP sensor.

• Variable speed drive with optimized DP sensor placement. In order to maximize energy savings associated with the use of variable speed pumping and DP sensor control, the position of the sensor is critical. • Variable speed drive with sensorless control. Mr. Moore described sensorless control as basically a more intelligent variable speed control that is only applicable for applications that typically require a single DP sensor for control.

After a brief question and answer period, President **Rod Potter** thanked Mr. Moore for his participation, and the meeting was adjourned at approximately 8:55pm.



April Table Top Displays

Futech: Plad (engineered pump systems)

Plad, a Canadian founded company, is a leader in the pump industry with the broadest range of pump selection, types and models, serving multiple markets including those of: chemicals, paint, food processing, electronics, construction, industrial maintenance, pulp and paper, utilities, process industries wastewater, sludge processing, mining and golf course irrigation pumping systems. PLAD Products are manufactured in a wide variety of materials and configurations with energy-efficient design features.

Air Solutions (energy and air quality specialists)

Air Solutions will be showcasing VänEE's recent achievement, new Bronze series 70 E (Energy Recovery Ventilation), an HVI and Energy star qualified unit which delivers 115 CFM at 0.2 "WG with unmatched energy efficiency in a design only 9 inches thick. It provides independent air circulation and exceptional comfort year round and is an ideal choice for in-suite ventilation requirements.



Governor Adam Graham 2013-2014 Program Committee Chair HTS Engineering

E-mail: adam.graham@hts.com

Table Top Availability

We currently have table-top availability for the 2013-2014 OVC ASHRAE meeting on the following dates:

May 27, 2014: 2 openings

Cost for a table top is \$200 and spaces are filling up.

Please contact **Adam Graham** if you are interested in confirming and we will ensure that you are booked in accordingly.

News Update

ATLANTA – Registration for the free 2014 **ASHRAE** Webcast, "Buildings in Balance: IEQ and Energy Efficiency," is now open!

The webcast will broadcast live on April 17, 2014, from 1-4 p.m. EDT. "The webcast will identify the link between energy efficiency and indoor environmental quality (IEQ) through the integrated design process," Andy Cochrane, chair of ASHRAE's Chapter Technology Transfer Committee, which oversees the event, said. "Participants will be able to recognize the importance of the four cornerstones of IEQ and explain how system selection can benefit energy efficiency and IEQ. The presenters will describe best practices for performance measurement protocols and explain the role of post occupancy evaluation in fine-tuning building performance. Viewers will also learn about the common design, commissioning and operational pitfalls of IEQ. 'Buildings in Balance' will describe how energy and efficiency can be achieved, without compromising IEO.'

Webcast presenters are: 2013-14 ASHRAE President William P. "Bill" Bahnfleth,

Ph.D., P.E., Fellow ASHRAE, ASME Fellow, professor of Architectural Engineering, director of Indoor Environmental Center, The Pennsylvania State University.

James W. Bochat, president, Commissioning Concepts, Phoenix, Ariz. Tim McGinn, P.Eng., ASHRAE-Certified High Performance Building Design Professional, principal, DIALOG, Calgary, Alberta, Canada

Jerry M. Sipes, Ph.D., P.E., vice president of engineering, Price Industries, Inc., Suwanee, Ga.

The IEQ Webcast has been approved for three Learning Units (LUs) by the American Institute of Architects (AIA) and three Continuing Education Hours (CEs) by GBCI. The state of New York also recognizes AIA course approval. Visit the link at the bootom of this page for more information on the Webcast and continuing education credits, as well as **ASHRAE** IEQ resources. Not able to view the live webcast? Be sure to register and take advantage of the free online archive. The archive allows viewers unlimited access to the webcast online until May 2, 2014. Registration is required to view the archived webcast.

ASHRAE PUBLISHES 2013 VER-SION OF MOT FOR BACNET CON-FORMANCE

ATLANTA - New tests and test improvements are included in the newly published ANSI/ASHRAE Standard 135.1-2013, Method of Test for Conformance to BACnet. The standard was published this week by ASHRAE. The standard defines a standard method for verifying that an implementation of the BACnet protocol provides each capability claimed in its Protocol Implementation Conformance Statement (PICS) in conformance with Standard 135, BACnet® -- A Data Communication Protocol for Building Automation and Control Networks.

Standard 135.1 provides a comprehensive set of procedures for verifying the correct implementation of each claimed capability, including BACnet services (as initiators, executors, or both), BACnet objecttypes (including both required properties and optional properties), the BACnet network layer protocol, data link options and all special functionalities.

The newly published standard includes new tests for new extensions to the BACnet standard; numerous test improvements developed in cooperation with the BACnet Testing Laboratories; and references the latest version of Standard 135, published in 2012, according to Carl Neilson, chair of the Standard 135 and Standard 135.1 Committees. "The new tests are significant and wide sweeping across the standard," he said. "The new tests cover new functionality that has been added to the BACnet standard over the past six to 10 years. We are continuing to work on advancing the test standard to ensure it continues to have coverage as the BACnet standard is extended / maintained."



Governor Daniel Redmond 2013-2014 Chapter Technology Transfer Chair MMM Group E-mail: RedmondDan@mmm.ca

The cost of ANSI/**ASHRAE** Standard 135.1-2013, Method of Test for Conformance to BACnet, is *\$119* (*\$101*, **ASHRAE** members). To order, contact **ASHRAE** Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide) fax 678-539-2129, or visit www.ashrae.org/bookstore

ASHRAE JOINS NAHB AND ICC TO DEVELOP NEW NATIONAL GREEN BUILDING STANDARD

WASHINGTON, March 27 - The National Association of Home Builders (NAHB), building science society **ASHRAE** and the International Code Council (ICC), developers of the ICC Family of Codes for the built environment, today agreed to jointly develop the 2015 edition of the ICC/**ASHRAE** 700 National Green Building Standard. This is the third edition of the standard and the first time that **ASHRAE** has partnered on its development.

"ASHRAE's participation is welcome news for the home building industry," said NAHB Chairman Kevin Kelly, a home builder and developer in Wilmington, Del. "This cements the position of the National Green Building Standard as the preeminent green standard for residential construction."

In 2007, NAHB and ICC convened a consensus committee of home builders, code officials, product manufacturers, building science and energy-efficiency specialists and governmental representatives to develop the standard. It was approved in 2009 by the American National Standards Institute (ANSI) as the first green standard for residential construction, development and remodeling. Since then, the National Green Building Standard has helped define and advance sustain-

ASHRAE Webcast Link: www.ashrae.org/ieqwebcast.

able home building, remodeling and development – a sector expected to represent as much as a third of the market by 2016.

Now known as the ICC 700 National Green Building Standard (NGBS), it was updated in 2012 by a subsequent consensus committee and again approved by ANSI. NGBS has been used to certify more than 32,000 single- and multifamily homes and residential developments for reaching its established benchmarks for energy, water and resource efficiency, indoor environmental quality, home owner education and site development.

"As one of the nation's leading societies for building technology, **ASHRAE** brings years of experience and knowledge to the table, particularly in the areas of indoor environmental quality and energy efficiency," said ICC Board President **Stephen Jones**, CBO, and CEO Dominic Sims, CBO, in a joint statement. "**ASHRAE**'s welcome involvement will help position the ICC/ASHRAE 700 National Green Building Standard even further ahead as the leading consensus standard in the industry." Applications to serve on the NGBS consensus development committee are open through April 6. That's also the deadline to submit proposals to update or amend the new edition. The application and the proposal submission forms can be found at www.homeinnovation.com/ngbs, the website for the Home Innovation Research Labs, which again is serving as secretariat, or administrator, for the standard development process.

"ASHRAE is pleased to stand beside NAHB and ICC as a co-sponsor of Standard 700-2015," ASHRAE President Bill Bahnfleth said. "This collaborative agreement provides a path forward for ASHRAE to contribute its technical and standards expertise to support one of the most important sectors of the built environment – our homes. We look forward to this joint effort to promote sustainability in the residential sector."

About **ASHRAE**: **ASHRAE**, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, **ASHRAE** shapes tomorrow's built environment today. More information can be found at www.ashrae.org/news.

About ICC: The International Code Council is a member-focused association. It is dedicated to developing model codes and standards used in the design, build and compliance process to construct safe, sustainable, affordable and resilient structures. Most U.S. communities and many global markets choose the International Codes.

About NAHB: The National Association of Home Builders is a Washington-based trade association representing more than 140,000 members involved in home building, remodeling, multifamily construction, property management, subcontracting, design, housing finance, building product manufacturing and other aspects of residential and light commercial construction. NAHB is affiliated with 800 state and local home builders associations around the country. NAHB's builder members will construct about 80 percent of the new housing units projected for this year.

2013 ASHRAE Golf Tournament

Although it doesn't feel like it.... It's that time of year again, time to book your team for the **ASHRAE** Golf Tournament!

The 2014 **ASHRAE** Golf Tournament is scheduled for Tuesday June 3rd, 2014 at the Marshes Golf Club.

The cost for this year's event is \$650 and includes the cost of golf with a cart and dinner following the tournament. Also included is access to the driving range, short game area and the locker room facilities. Participants may also choose to attend the dinner only for \$60 or companies may also sponsor a hole for \$200.

One added benefit of the Marshes is the opportunity to access Marchwood, the executive nine hole course on the same property. For those members who are not avid golfers but would still like a taste of golf here is your chance. If you are interested in a quick nine holes of Par 3 golf on the short course followed by dinner with the other participants please let us know. We would love to have the extra participants attend the event.

Full tournament details have been sent directly to all of last year's Registered Participants. Spots for returning teams will be held until April 25th, 2014, after which time the field will be opened up to new teams. Registrations will only be confirmed upon return of the completed Registration Form and payment through the On Line Payment System.

The registration form also extends an invitation to the membership to become involved as hole sponsors. Our hole sponsorship for **ASHRAE** Research Program has been wonderfully supported by our chapter



Special Events Andrew Douma

2013-2014 Special Events Commitee Co-Chair **Total HVAC** E-mail: andrewd@totalhvac.com

membership

in the past and continued support is appreciated for this year's event. As we are all aware a beneficiary of the tournament is **ASHRAE** Research and accordingly the more successful we are in this effort the more we will gain as a community. As always we expect a quick sellout so don't delay in returning your responses and getting your game in shape.

Should you have any questions about the tournament or hole sponsorship please contact myself at andrewd@totalhvac.com or by phone at 613.723.4611.

ASHRAE OVC Seminar

DATE: Wednesday April 30, 2014 (Full day seminar – Exact start and end time TBD)

LOCATION: Master Group Ottawa Training Room

TOPIC: Controls Fundamentals

PRESENTER: James Breckenridge, P.Eng, LEED AP Controls Group Manager, HTS Engineering Ltd.

OVERVIEW:

This full day seminar will be geared mainly towards consultants with little or some controls experience and an interest in understanding the fundamentals of controls systems. It will commence with a 3 hour "Controls 101" presentation that will cover the basics of controls networks and devices. The presentation will then move into "Controls 201", that will get into more advanced topics involving system control methods and controls design. This will all be followed by an interactive example based learning environment in the afternoon.

Controls 101

- 1) General Control Architecture
- 2) Wireless Field Bus – Zigbee Mesh Network
- 3ĺ Supervisory Controller Functions
- 4) Workstation Functions
- 5) **Field Controller Functions**
- 6) PID without a PhD
- 7) Protocol Primer
- 8) Layered Communication
- 9) Field Devices - Valves
- Field Devices Steam Valves 10)
- Field Devices Pressure Independent Valves 11)
- Field Devices Dampers 12)
- Field Devices Sensors 13)
- Field Devices Relays & Starters 14)
- 15) Educational Dashboards
- 16) Optimization - 3 Forms of Control
- 17)Specs - Problems, Pitfalls, Gotcha's Controls 201

Controls 201

- Controls Schematics and Sequences Overview 1)
- Control Methods of Various Mechanical Systems 2) 3)
 - Commonly Misapplied Controls Sequences
 - Primary/Secondary Systems
 - Variable Primary Flow System
 - Enthalpy Wheel Frost Protection
 - AHU Discharge Temperature vs. Room Temperature Control

Space is limited to 30 people so please register online at: https://ashraeottawa.simplesignup.ca/349

Lunch will be provided. please contact Sandy Taylor with any special dietary concerns. Sandy@ashrae.ottawa.on.ca



Student Activities

The 2014 Career fair was a success last month with booths set up by Engineered Air, Jp2g, Nortec, Total HVAC and Longhill Energy. The event was additionaly sponsored by both E.H. Price and Engineered Air. The Carlton Student Chapter also was in attendance to raise awareness about membership. As expected we had a great turn out of Algonguin students who were in the majority, however we also got a number of Carleton and Ottawa University students as well. Many students showed up near the beginning of the two hour period leading to lines at a number of the booths.

The first weekend of April we also have the annual Ottawa Regional Science fair held at Carleton university this year, where **ASHRAE** will be sponsoring a number of special awards for students in different age groups. A small group of students will help judge the entries.

We are starting a science, technology, engineering & mathematics



(STEM) outreach to an elementary school in the region this month. This will include introducing a class to engineering basics and providing a science demonstration for the students. Please contact meself or Richard Cameron if you are interested in helping in Engineering and Science outreach to Elementary or highschool students. We are looking for more volunteers to be able to introduce engineering and science to more of our community schools.

If you have any questions, or would like to help in any of this year's activities please don't hesitate to contact us.

Check This Out:

ASHRAE Student Zone: Scholarships and Grants to Careers and Internships... http://www.ashrae.org/students/



Committee Co-Chair Adrianne Mitani 2013-2014 Student Activities Committee Co-Chair Smith + Anderson

E-mail:Adrianne.Mitani@smithandandersen.com

Committee Co-Chair Richard Cameron

2013-2014 Student Activities Committee Co-Chair & Publications Committee Chair **Goodkey Weedmark** E-mail: r.cameron@gwal.com

ASHRAE Scholarship Program http://www.ashrae.org/students/page/1271

ASHRAE Smart Start Program (20-50-50) – Student members can pay student prices after graduating! http://www.ashrae.org/students/page/703



CTTC Awards

Hi Ottawa Valley Chapter Member!

I would like to remind you that the deadline to submit your application for the **ASHRAE** Technology Award is *April 15, 2014*. Please participate by submitting your application as soon as possible! Keep in mind that there are many categories and don't hold back on submitting your projects thinking that it may be too small.

The **ASHRAE** Technology Awards program recognizes, on an international scale, successful applications of innovative design, which incorporate **ASHRAE** standards for effective energy management, indoor air quality, and good mechanical design.

The purpose of the **ASHRAE** Technology Awards program is threefold

1. To recognize **ASHRAE** members who design and/or conceive innovative technological concepts that are proven through actual operating data.

2. To communicate innovative systems design to other **ASHRAE** members

3. To highlight technological achievements of **ASHRAE** to others, including associated professionals and societies worldwide, as well as building and facility owners

Chapter level submissions must be submitted electronically directly to me at *bmoore@master.ca*.

The building in questions should be in operation for a period of about 9 *months*. There are six categories to which applications may be submitted:

I. Commercial Buildings (New and Existing) II. Institutional Buildings (New and Existing) o Educational Facilities

- o Other Institutional



Benjamin Moore 2013-2014 Chapter Technology Transfer Awards Program Chair The Master Group L.P. E-mail: bmoore@master.ca

III. Health Care Facilities
(New and Existing)
IV. Industrial Facilities or Processes
(New and Existing)
V. Public Assembly Facilities
(New and Existing)
VI. Residential (New and Existing)

The CTTC committee is looking for judges to help review applications at the chapter level; if you are interested in volunteering for this worthy endeavor please contact me!

For questions during the application process here are my coordinates: **Benjamin Moore**, P.T. Ph: 613-829-2816 Cel: 613-324-3087

Cel: 613-324-3087 Email: bmoore@master.ca

The technology awards section of the **ASHRAE** website is located at: http://www.ashrae.org/membership--conferences/honors--awards/technology-awards-program

The short form description is located here: https://www.ashrae.org/File%20Library/docLib/Committees/CTTC/Chapter-Regional-Application-Short-Form.pdf



OCA Guideline for Seismic Restraint of Operational and Functional Components (OFCs) 2014

The **ASHRAE OVC** would like to bring to your attention the publication by the OCA Standard Practices Committee of their "OCA Guideline for Seismic Restraint of Operational and Functional Components (OFCs) 2014".

The creation of this guideline has taken several years, but the purpose was to produce an invaluable document which is intended to help bring some clarity and ultimately standardization within the construction industry when dealing with seismic designs and installations with the Ottawa region. These guidelines were intended to be of use to City of Ottawa building inspectors that may have struggled with interpretation of the building code, and also to ensure that local contractors were not being disadvantaged against out-oftown bidders because in Ottawa for the most part, seismic restraint is part of our culture and is a standard practice. The hope of the OCA is to have this document or one similar, adopted and incorporated into the Ontario Building Code, however at this time it remains only as an unofficial reference guide for those responsible for the design and certification for the seismic restraint of operational and functional components within buildings.

The committee is well represented by seismic/structural professionals, architects, contractors in mechanical/electrical/architectural fields; the full committee is listed inside the cover and the committee was chaired by **Ross McIntyre** of Goodkey Weedmark & Associates.



Governor Adam Graham 2013-2014 Program Committee Chair HTS Engineering

E-mail: adam.graham@hts.com

I'd like to stress again that this publication is in no way intended to eliminate any specified requirement for job-specific seismic design and inspection/certification of same; it is a **GUIDELINE** to be used a tool.

The full guideline can be found on the OCA website at the link below:

OCA Website link: http://www.oca.ca/docs/resources/SeismicRestraint%202014.pdf



President-Elect Steve Moons

2013-2014 President-Elect & PAOE Committee Chair **Total HVAC**



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.

E-mail: Stevem@totalhvac.com

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. For payment and other information contact Steve Moons at stevem@totalhvac.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.

ASHRAE Table Top Opportunity

We currently have table-top availability for several of the 2013-2014 **ASHRAE OVC** meetings. Cost for a table-top is \$200 and spaces are starting to fill up.

Please let Adam Graham (adam.graham@hts.com) or Steve Moons (stevem@totalhvac.com) if you are interested and we will ensure that you are booked in accordingly.

Rod Lancefield 2013-2014 Publicity Committee Co-Chair



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 \$225.00 for the year. Please contact Rod Lancefield at rodl@htseng.com for more details.

2013-2014 President **Roderic Potter** President-Elect Steve Moons Treasurer Georges Maamari Secretary Abbey Saunders Governors Patrick Albert Chris Fudge Adam Graham Daniel Redmond **Past President Donald Weekes**

Committees

Attendance Sandy Taylor Audit Stephen Lynch **Capital Communiqué Richard Cameron CRC Roderic Potter** СТТС Daniel Redmond **Grassroots Government** Affairs Kashyap Desai Financial Sandy Taylor Greeter Miker Swayne History Aaron Dobson Membership **Promotion** Adam Moons Nominations & Awards Robert Kilpatrick PAOE Steve Moons **Publicity** Richard Cameron Research **Promotion Donald Weekes** Roster Georges Maamari **Special Events** Chris Healey Andrew Douma **Student Activities Richard Cameron** Adrianne Mitani **Table Top Derek Atkins** Website **Roderic Potter**