Capital Communiqué
2013-2014 March Edition

ASHRAE Ottawa Valley Chapter

DATE: **Tuesday March 18, 2014**
(Social: 17:30,Dinner:18:30,Program: 20:00)

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

THEME: **Student**

PROGRAM: **Pump Selection: Meeting and Exceeding ASHRAE Standard 90.1**

SPEAKER: **Andrew Moore, Technical Support Representative, Armstrong Fluid Technology**

Andrew is a Professional Engineer who has worked as a marketing and technical support specialist for Armstrong Fluid Technology in Toronto since 1998. Over this time period, Andrew has assisted in new product development, new selection software development as well as marketing literature and submittals initiatives. Andrew has worked with engineers, customers and sales representatives from all around the world to ensure that the correct products and features were being specified, selected and ordered. When required, Andrew has also provided valuable engineering support and troubleshooting input to help get things up and running again.

OVERVIEW:

The presentation is to touch on ASHRAE Standard 90.1 as it applies to pumping and move to cover the topics listed below.

- Constant speed pump selections
- Variable speed pump selections
- How to control pumps to maximize energy efficiency
- The HVAC world is really a part load world
- Pump design point selection (left of the curve / right of the curve)
- Pump affinity laws

March 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/348

Registration will close on Thursday March 13th. Pre-registration is required as the venue requires confirmed numbers that the chapter must commit to pay for at this time.

President's Message

President & CRC Delegate

Roderic Potter

2013-2014 OVC President

Rodders CAS

E-mail: *rod@rodders.com*

Marching Backward, Marching Forward

I have to admit I have been suffering from a bit of writer's block this month and had been wracking my brain for ideas. Eventually I started looking back through old copies of the newsletter for stimulus. It looks like I have been fairly prolific with articles over the years and I was amused when I stumbled across the March 2006 issue which contained something by me titled *"Time to Vent"*. I had completely forgotten about this article which relays the fine time I had with my ex-wife trying to discover why our toilets suddenly started backing up.

We had a burly plumber over to the house from Roto-Pooter and he messed around with a plumber's snake, eventually saying *"try to flush it now"* - and the problem had miraculously cleared itself.

I paid the man and as soon as he left I flushed a toilet and it **BACKED UP** again. I was a little peeved as you might imagine and spent the next hour at Kanata McDonald's mulling over the problem. If you want to read the whole story go to the link at the bottom of the article:

Moving on with residential plumbing stories I note that the March program *will be "Exceeding **ASHRAE** Standard 90.1 as applied to Pumping"* and this reminds me of when our well jet-pump failed in the middle of winter a few months ago.

This local plumbing guru came over with a pair of divining rods and pinpointed our well to within a few feet (which amazed me), and we ended up with a new wellhead, submersible pump about 170 feet down, accompanied by a variable speed drive which has revolutionized the water flow in the house. It doesn't seem to matter how many appliances are running, the pressure just stays steady - and I never have to jump out of the shower because someone runs the tap on the kitchen sink (hooray). Hopefully we will learn great things about energy-efficiency as applied to pumping on March 18th.

Preceding the March meeting will be the yearly **Career Fair**, to be held in the Technology Building at Algonquin College. This always provides a fine opportunity to meet with eager students who will soon graduate and head into our industry. I have attended a number of these Career Fairs over the years and always enjoyed them - students tend to turn up and walk about in a shy manner - until you approach them and they open up right away. Prospective employers would benefit from attending this event to be sure.

I sadly missed the February meeting with guest speaker **David Underwood** and his speech on Commissioning. I look forward to being back at the helm for the March meeting and hope to see many of our members in attendance.

Cheers from the desk of Rodders CAS

http://www.ashrae.ottawa.on.ca/ashrae-ovc_history/2005-2006/Newsletter/200603-COM.pdf and flip to page 13.

Research Promotion

Past President

Donald Weekes

2013-2014 Chapter

Research Promotion Chair

InAIR Environmental Ltd.

E-mail: *don.weekes@inairenvironmental.ca*

Hi, Everyone:

At the September 2013 Chapter meeting at the Mill Street Brew Pub, I noted that it had been a year since **Paul Baker** had presented on the occasion of the Chapter's 60th Anniversary. I also dedicated this year's RP campaign in the memory of Paul and all that he contributed to the Ottawa Valley Chapter over the years. Paul was a constant participant in almost all of the Chapter's yearly events, including the annual RP campaign, to which he generously donated every year. In his memory, I am asking all Chapter members to *'do it for Paul'* by donating what you can.

Please contact any member of the RP team (**Steve Moons**; **Bob Kilpatrick**; **Christine Kemp**; **Cathy Godin**; **Mike Swayne**; and **myself**) to make a donation to this year's campaign. You can also make a donation through the OVC website or through **ASHRAE**'s Society website (both listed at the bottom of the article).

At the February Chapter meeting, our monthly raffle for Senators tickets raised *$375.00* for research promotion. 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.

If you have any ideas for fundraising this year for **ASHRAE RP**, please let any of the RP team members know about your idea. The RP team members are: **myself, Steve Moons (co-Chair), Bob Kilpatrick, Cathy Godin, Christine Kemp, and Mike Swayne**. We would love to hear your ideas.

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

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

What You Missed February Meeting

Secretary
Abbey Saunders
2013-2014 OVC Secretary
NRC-CNRC
E-mail: *abbey.saunders@nrc-cnrc.gc.ca*

The February meeting took place at Algonquin College Restaurant International. The meeting was called to order by President-Elect **Steve Moons** at 6:25pm and attendees were seated for dinner.

The business session commenced with President-Elect **Steve Moons** introducing the Board of Governors and Executive followed by **Abbey Saunders** introducing the evening's guests and **Adam Moons** introducing the new members.

Adrianne Mitani quickly reminded everyone of the upcoming **Career Fair** which is to take place prior to the March meeting, and that anyone interested in a booth please contact her at their earliest convenience.

Chris Fudge introduced the Master Group evening table top which featured Dadanco.

Next the evening theme of CTTC was briefly discussed and members were reminded of the CTTC technology awards, and encouraged to provide submissions.

Mike Swayne then provided members with a status update on this year's Research Promotion campaign.

During social hour the research committee raffled off Sens tickets, donated by Longhill Energy. The raffle raised *$385* for **ASHRAE** Research, and **Andrei Bronipolinsky** was the lucky winner.

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

Prior to commence of the main program event in honour of his birthday, **Mr. Underwood** was surprised with the presentation of an **ASHRAE** themed birthday cake and a rising rendition of happy birthday.

After the mini birthday celebration the main program event kicked off with **Mr. Underwood** thanking of OVC members for being so active and reminding everyone that it is the strength and knowledge of the volunteers and members that makes **ASHRAE** such a successful organization.

Mr. Underwood then introduced his presentation topic of Commissioning Tips, Tricks and Techniques which would basically provide a series of questions and answers outlining commissioning fundamentals. The various fundamental questions and items related to commissioning that **Mr. Underwood** discussed are outlined herein.

The best way to approach commissioning is to start early and consider an integrated design, ensure the commissioning authority acts as a project facilitator and ensure the commissioning process follows relevant guidelines such as those available from **ASHRAE**.

Commissioning, as it relates to our industry, is defined as a quality focused process for enhancing delivery of a project. **Mr. Underwood** further elaborated that commissioning is the transfer of the designer's knowledge to the owner. Commissioning ties the designers, owners and operators together.

Major reasons for the commissioning any project include: to ensure the Owner Program Requirements (OPR) are met, to enhance project constructability and to educate and train the operators. The selection of appropriate commissioning authorities for a project depends on the complexity of the project. To ensure you select the right commissioning agent for your project look to certifications, experience and references.

Documents that are essential to a successful commissioning process include: a comprehensive OPR, a good Basis of Design (BOD), and complete and accurate commissioning logs and system manuals.
The main value (benefit) of commissioning to an owner lies in the production of comprehensive start-up instructions, detailed maintenance manuals, performance verifications (seasonal checks), and in general a decrease in the number of warranty

and call back issues. Development of a comprehensive OPR for all systems to be commissioned is the best way for owners to ensure they get the best value from the commissioning process. Details to consider during the development of the OPR include: anticipated building uses, appropriate design standards, and operator skill level. Factors that can have an effect on the OPR include: facility objectives, efficiency goals, IAQ requirements, equipment access, system operation and maintenance manual requirements, project schedules and project specific requirements. When assisting an owner with the development of a commissioning process the commissioning authority brings the following skills to the table: knowledge of system development, typical performance and acceptance criteria, ideas of what typically affects schedule, and knowledge regarding general construction principles and processes.

Typical documents to be tracked as part of the commissioning process include: changes to the OPR or BOD and verification reports. Under no circumstances should the commissioning authority make changes to the BOD without approval of the designer and owner. The commissioning authority's duty is to look at the design from the standpoint of constructability and with respect to the ability to meet the OPR.

Training of operators is another important aspect that results for a good commissioning process. To ensure the full benefit of commissioning is transferred to the operators, good quality maintenance manuals, training sessions and refresher sessions should be arranged.

Generally speaking with the implementation of a good commissioning process, the owner, designer, constructor, operations and maintenance personnel and building occupants all benefit.

The commissioning process is currently wide varying and not very well standardize across the industry. To date several organizations with ties to commissioning are trying to develop a roadmap to help standardize the commissioning approach within the industry.

Following the presentation and a brief question and answer period, President-Elect **Steve Moons** thanked **Mr. Underwood** for his participation, and the meeting was adjourned at approximately *8:50pm*.

March Table Top Displays

Walmar: LAARS Magnatherm Boiler

The Laars MagnaTherm is a 2, 3 or 4 million BTU boiler or volume water heater that has everything you need to satisfy your large input commercial applications. Laars engineers took a system efficiency approach when designing the MagnaTherm to ensure that its total installed efficiency is as high as possible. This was done through the use of the unique Laars VARI-PRIME™ variable speed boiler pump control that optimizes the three major variables of boiler operation – combustion efficiency, blower efficiency and boiler pump efficiency.

Table Top Availability

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

March 18, 2014: 1 Opening
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.

President-Elect
Steve Moons
2013-2014 President-Elect & PAOE Committee Chair
Total HVAC
E-mail: *Stevem@totalhvac.com*

Adam Graham
adam.graham@hts.com

News Update

Governor
Daniel Redmond
2013-2014 Chapter
Technology Transfer Chair
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ASHRAE/IES ENERGY STANDARD GAINS 30 PERCENT SAVINGS OVER 2004 STANDARD

ATLANTA – The requirements of the 2013 revision of an energy standard recently published by **ASHRAE** and IES will result in buildings that could achieve six to eight percent more efficiency than buildings built to the 2010 standard.

Published in October 2013, ANSI/**ASHRAE**/IES Standard 90.1-2013, Energy Standard for Buildings Except Low-Rise Residential Buildings, provides minimum requirements for the energy-efficient design of buildings except low-rise residential buildings.

Pacific Northwest National Laboratories (PNNL), in support of the Department of Energy's Building Energy Codes Program, conducted the energy savings analysis on *110* addenda included in the standard.

PNNL's analysis shows that the site and energy cost savings are *37.7* percent and *37.8* percent, respectively, by using the 2004 standard as baseline for the regulated loads only. For the whole building energy consumptions, national aggregated site energy savings are *29.5* percent and energy cost savings are *29.0* percent.

On a nationally aggregated level, building-type energy savings range from *19.3* percent to *51.9* percent and energy-cost savings from *18.6* to *50.6* percent. These figures include energy use and cost from the whole building energy consumptions including plug and process loads.

*"**ASHRAE** is committed to continually improving building energy performance, so we are pleased with this confirmation that the 2013 standard achieves significant energy savings over its predecessor,"*

William Bahnfleth, **ASHRAE** president, said. *"As we approach the 40th anniversary of the publication of the standard, these new savings underscore Standard 90.1's key role in promoting energy efficiency in buildings in the United States by establishing successively more stringent – but cost effective – minimum requirements and we look forward to further advances in future revisions."*

"The Illuminating Engineering Society of North America (IES) has provided technical support on lighting related requirements in each iteration of the standard since 1975," **Rita Harrold**, director of technology, said. *"IES continued that role in developing the energy efficiency provisions in the 2013 standard through modified LPDs and additional daylighting and controls strategies. The challenge to achieve higher energy efficiencies increases with each version of the standard and begins anew as we address targets for the 2016 edition."*

Extensive analysis work was performed by a team from Pacific Northwest National Laboratories. *Sixteen* different building prototypes were modeled in *17* different climate locations for a total of *272* building types and climate zone combinations.

The energy reduction was achieved through *33* addenda related to major changes to requirements regarding building envelope, lighting, mechanical and the energy cost budget. The most significant changes are:

•**Building Envelope**: Opaque elements and fenestration requirements have been revised to increase stringency while maintaining a reasonable level of cost-effectiveness. Opaque and fenestration

assemblies in Tables 5.5-1 through 5.5-8 are revised in most climates. These changes include:
o Criteria requiring double glazed fenestration in many climates
o Minimum visible transmittance/solar heat gain coefficient (VT/SHGC) ratio to enable good daylighting with minimum solar gain, while not restricting triple- and quadruple-glazing.
o Simplification of the skylighting criteria.

• **Lighting**: These changes include improvements to daylighting and daylighting controls, space-by-space lighting power density limits, thresholds for toplighting and revised controls requirements and format.

• **Mechanical**: Equipment efficiencies are increased for heat pumps, packaged terminal air conditioners, single package vertical heat pumps, air conditioners and evaporative condensers. Also, fan efficiency requirements are introduced for the first time. Additional provisions address commercial refrigeration equipment, improved controls on heat rejection and boiler equipment, requirements for expanded use of energy recovery, small motor efficiencies and fan power control and credits. Control revision requirements have been added to the standard such as direct digital controls in many applications.

Another important change for the 2013 standard is the first alternate compliance path in Chapter 6. Section 6.6 was added to the 2010 edition to provide a location for alternate methods of compliance with the standard. The first such alternate path has been developed for computer room systems and was formulated with the assistance of **ASHRAE** technical committee 9.9, Mission Critical Facilities, Data Centers, Technology Spaces and Electronic Equipment. This path uses the Power Usage Effectiveness (PUE) metric established by the datacom industry. This alternate efficiency path format provides a framework that could be considered for other energy using facets of buildings not easily covered in the prescriptive provisions of the standard.

The standard is written in mandatory code language and offers code bodies the opportunity to make a significant improvement in the energy efficiency of new buildings, additions and major renovations.

ASHRAE PUBLISHES 2013 EDITIONS OF REFRIGERANT SAFETY STANDARDS

ATLANTA – The 2013 editions of **ASHRAE**'s major refrigerants-related standards, incorporating *41* new addenda, have been published. Requirements in ANSI/**ASHRAE** Standard 34-2013, Designation and Safety Classification of Refrigerants, and ANSI/**ASHRAE** Standard 15-2013, Safety Standard for Refrigeration Systems, complement each other in that Standard 34 describes a shorthand way of naming refrigerants and assigns safety classifications based on toxicity and flammability data. Standard 15 establishes rules for safe application in equipment and systems when the refrigerant classification system. **ASHRAE** sells the standards as a set.

Standard 34-2013 contains the 2010 standard and *36* published addenda. Among the key changes incorporated into the standard are:

• Assignment of designations and safety classifications for one new single compound refrigerant and *14* new refrigerant blends.

•Changed the refrigeration concentration limits (RCL) values of *19* refrigerants listed in the 2010 standard to comply with more current methodology.

• Changed the flammability safety classifications of four refrigerants from Class 2 to Subclass 2L, based on optional burning velocity measurement data.

• Added Toxicity Code Classification assignments for *18* refrigerants that had been unassigned in the 2010 standard.

• Clarified methodology for conducting flammability tests and for determination of fractionated compositions for flammability testing.

• Updated methodology by which the heat of combustion is calculated for refrigerant blends, and provided heat of combustion calculation examples for refrigerant blends.

• Defined requirements that applicants shall provide evidence of the existence of an azeotropic blend, if requesting an R-500 series designation.

• Modified sections of the standard to add bubble-point and dew-point definitions and test conditions, clarified applicant documentation requirements related to GLP compliance and added critical pressure data and specific volume calculation methodology for applicant submissions.

Standard 15 contains the 2010 standard plus five published addenda. Key changes to the standard include:

• Clarification of the location requirements for machinery room mechanical ventilation.

• Clarification that design pressure is expressed in terms of relative pressure or gauge pressure (not absolute pressure).

• Wording to ensure the standard more closely harmonizes with the 2012 International Mechanical Code (IMC) section 1101.10.

NEW ASHRAE, GREEN GRID PUBLICATION PROVIDES BACKGROUND ON DATA CENTER METRICS

ATLANTA - Power usage effectiveness (PUE™) has become the industry-preferred and globally adopted metric for measuring the energy efficiency of data centers. In response to this demand, **ASHRAE** and The Green Grid have published "PUE™: A Comprehensive Examination of the Metric."

This is the 11th book in the Datacom Series of publications from **ASHRAE** Technical Committee (TC) 9.9, Mission Critical Facilities, Data Centers, Technology Spaces and Electronic Equipment. **ASHRAE** TC 9.9 collaborated with The Green Grid on the book.

"Our primary goal is to provide the data center industry with unbiased, vendor neutral data in an understandable and actionable way and this latest publication on the PUE metric does exactly that," **Don Beaty**, publication subcommittee chair of TC 9.9, said. *"We want to ensure that data center designers, owners and operators have access to information that enables them to make informed and educated decisions based on their business needs and value systems."*

For this book, all previously published material related to PUE was consolidated and augmented with new material. The content includes detailed information on procedures for calculating, reporting and analyzing PUE measurements, plus quick references to other resources in print and online. The intention is that a broad audience—from those implementing and reporting data center metrics seeking in-depth application knowledge and resources to executives hoping to gain a higher level of understanding of the concepts surrounding PUE—can easily grasp the guidance offered.

"Data centers are complex systems for which power and cooling remain key issues facing IT organizations today," **John Tuccillo**, chairman of the board for The Green Grid Association, said. *"The Green Grid Association's PUE metric has been instrumental in helping data center owners and operators better understand and improve the energy efficiency of their existing data centers, as well as helping them make better decisions on new data center deployments."*

PUE was first defined by The Green Grid, a non-profit, open industry consortium of end users, policy makers, technology providers, facility architects and utility companies working to improve the resource efficiency of information technology and data centers throughout the world.

The cost of "PUE: A Comprehensive Examination of the Metric" is *$59* (*$50* **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 *http://www.techstreet.com/ashrae/products/1869497.*

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
3) 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
10) Field Devices – Steam Valves
11) Field Devices – Pressure Independent Valves
12) Field Devices - Dampers
13) Field Devices - Sensors
14) Field Devices – Relays & Starters
15) Educational Dashboards
16) Optimization – 3 Forms of Control
17) Specs – Problems, Pitfalls, Gotcha's Controls 201

Controls 201
1) Controls Schematics and Sequences Overview
2) Control Methods of Various Mechanical Systems
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

Career Advertisement - Renfrew Victoria Hospital

RENFREW VICTORIA HOSPITAL

Full Time Employment Opportunity
Director of Physical Plant and Grounds

As a result of a retirement, RVH is currently recruiting a Director of Physical Plant & Grounds. The successful candidate will be responsible for the 24-hour operation of the main hospital complex, and over 30,000 sq. ft. of hospital-owned buildings. In addition, RVH has just embarked on a $15M expansion which will result in 25,000 sq. ft. of new construction.

We are seeking a highly motivated individual who has strong project management and interpersonal skills, leadership qualities, and several years' experience working in a hospital setting. The requirements of this position include a valid Ontario Certificate of Qualification for a 3rd Class Operating Engineer, a minimum of 5 years' experience in both plant and property management, supervisory experience in a unionized environment, and a valid Ontario driver's license. Other classes of engineers, and individuals holding a licensed trade certificate will be considered. Detailed knowledge of building automation systems; relevant codes of practice and statutes including the Ontario Fire Code, the Ontario Building Code, and relevant Infection Control Standards; and, Operating Engineers Regulation 219/01 is required.

Qualified candidates are invited to apply in writing by **4:00 p.m. on March 21st, 2014**, to Julia Boudreau, Vice President, Corporate Services, Renfrew Victoria Hospital, 499 Raglan Street North, Renfrew, Ontario, K7V 1P6 or *hr@renfrewhosp.com*. Only those candidates selected for interview will be contacted. A Vulnerable Sector Check completed within the past six (6) months is a requirement for employment at RVH.
Visit *www.renfrewhosp.com* to learn more.

Student Activities

The ASHRAE Career Fair is being held prior to the upcoming ASHRAE meeting on March 18, 2014 at Algonquin College room T102 from 2:30pm to 5:00pm. There are still booths available! To register please follow the link on the cover page of this communique. For more information please see the advertisement on the back of this communique.

Plans for March include visits to students at Algonquin College, Carleton Univeristy and Ottawa University to promote attendance at chapter meetings and to get the student chapters up and running for the new school year.

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/

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

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 CAREER FAIR REGISTRATION LINK: *https://ashraeottawa.simplesignup.ca/318*

CTTC Awards

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

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
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*
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

Membership Promotion

Committee Chair
Adam Moons
2013-2014 Membership Committee Chair
Walmar Ventilation Products
E-mail: adam@walmar.net

Greetings Everyone!

The benefits of **ASHRAE** membership extend beyond what our Chapter alone has to offer. It is well worth while to take some time to peruse the main **ASHRAE** website at *www.ashrae.org*. You might end up noticing that there is a **FREE** webcast on *April 18th* discussing IEQ.

This webcast will feature industry experts who will identify the link between energy efficiency and Indoor Environmental Quality (IEQ) through the integrated design process. Viewers will be able to recognize the importance of the four cornerstones of IEQ and how system selection can benefit both energy efficiency and IEQ.

Just another example of how ASHRAE is affording its members an opportunity to grow professionally. Please pass this information along to your colleagues!

I would also like to introduce and welcome the following new members:

- **Mr. Frederic Bouchard**
- **Mr. Nicolas Denis**
- **Mr. Kyle VanRiemsdyk**
- **Mr. Dean Proctor**

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

2014 ASHRAE Curling Bonspiel Wrap Up

The annual **ASHRAE** Curling Bonspiel was held this past *Feb 28* at the Nepean Sportplex.

14 teams signed up to upset the defending champs from Walmar under the guidance of Dan Grant. One (or more) teams were successful, we have a new champ this year: **Mastron Mechanical**

Thanks to **Stan Millross** for being our emcee for the evening, to Capone's catering for a great meal.

Lastly, on behalf of **ASHRAE**, we were able to donate *$1,120.00* to two local charities this year, **Roger's House** and **The Ottawa Food Bank.**

This brings **ASHRAE**'s total since 2010 to over *$8,200.00*

Regards,
Chris Healey

Advertising

President-Elect
Steve Moons
2013-2014 President-Elect & PAOE Committee Chair
Total HVAC

E-mail: *Stevem@totalhvac.com*

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. 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.

Business Card Ads

Rod Lancefield
2013-2014 Publicity Committee Co-Chair
HTS Engineering Ltd.
E-mail: *rodl@htseng.com*

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

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Roderic Potter
President-Elect
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Adrianne Mitani
Table Top
Derek Atkins
Website
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ASHRAE Ottawa Valley Chapter

AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS

Is looking for booth sponsors for:

CAREER FAIR '14

Tuesday March 18th, 2014

at

Algonquin College T Building room T102

1385 Woodroffe Ave

1. Affordable Booths - $200.00 (cash, cheque, money order payable to ASHRAE – OVC or Credit card) see information below for what is included.
2. If you would prefer to just have your company logo in the program guide as advertisement along with other ASHRAE supporters, this is available for $100.00.
3. Schools that are being canvassed; University of Ottawa, Carleton University and Algonquin College.

Booth Information:

- Booth Size 10' x 8' (Approximately 24 available)
- 120 VAC Available (bring your own extension cords and power bars)
- Tables, Skirts, and Chairs Provided
- Contact Richard Cameron (r.cameron@gwal.com 613-727-5111 x 214) or Adrianne Mitani (adrianne.mitani@smithandandersen.com 613-230-1186 x 3115) for any special requirements
- Invoices will be sent out upon RSVP

ASHRAE CAREER FAIR REGISTRATION LINK: https://ashraeottawa.simplesignup.ca/318

Schedule:

- **14:00 – 14:30** - Access and Set-up
- **14:30 – 17:00** - Career Fair
- **17:00 – 17:30** – Clean-up

Please to Richard Cameron or Adrianne Mitani:

Company:_____

Contact:_____

I am interested in:

□ Booth

□ Logo in program guide only