2015 March Sapital





DATE: Tuesday March 17, 2015

Technical Session: 16:30, Social: 17:30

Dinner: 18:30, Program: 19:30

LOCATION: Algonquin College Restaurant International

1385 Woodroffe Ave, Building H, Room H100

PROGRAM: Lab Exhaust

SPEAKER: Jim Howard

SPEAKER BIO:

Jim Howard has been in the fan industry for 34 years, having worked for manufacturers such as Barry Blower, Twin City Fan and Loren Cook. His various positions include Director of Product Development & Director of Sales & Marketing. As the current industrial sales manager at Loren Cook, Jim is responsible for laboratory product development and sales.

The evening presentation will be on Lab Exhaust Codes, Guidelines and Application. Topics of discussion will include AMCA 260 certification and test procedure of entrainment nozzles, ASHRAE and ANSI codes and guidelines including recent significant changes and typical application of various products including energy saving opportunities.

TECHNICAL SESSION:

We take a one month break from our Mentorship technical sessions, and instead offer a session on cogeneration. This promises to be a strong technical talk, and can offer insight into a technology that is becoming more prevalent as we look for more ways to increase project efficiency.

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

Space is limited so please register online at:

https://ashraeottawa.simplesignup.ca/en/610/index.php?m=eventSummary

President's Message

As the calendar (if not the weather) turns towards spring, we reach the home stretch of our **ASHRAE** year. This month's speaker, **Jim Howard**, will continue our year long program in which we strive to offer evening programs with a strong technical aspect. Given the wealth of research facilities, high tech business and schools we have in our area, we felt that this month's topic of **lab exhaust** would be of particular interest to our membership. We hope that you will all endeavor to attend.

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This month's theme is **Students**, and to that end we offered our annual **Career Fair**, held earlier this month at **Carleton University**. This event was well attended by many facets of our industry. We've encouraged these students to come to this month's meeting, so please take some time to seek them out and chat with them about their studies and a future in our industry.

There are two items currently ongoing in our chapter year that I'd like to remind you of. First is the **CTTC Awards** that **Dan Redmond** is championing. He showed at last month's meeting how easy it is to

submit a project for consideration. If you were unable to attend last month, please review the **February** Communique, where Dan included a link to the forms. If you still have questions, Dan and his team are eager to help, so please try to get your projects in. Second is our Research Promotion campaign. We're now hitting our full stride with our calling campaign, so if you have not yet received a call from our committee members, please expect one soon. Feel free to be proactive, and contact **Georges Maamari** directly to donate. We're off to a strong start, and with Georges' initiative, we have been able to secure more corporate donations. That said, the lifeblood of the campaign is our membership and their personal donations. We have the opportunity with our strong start to exceed our goal, which we have not been able to accomplish for some time.

Lastly, **Bob Kilpatrick** has stepped up again to chair our **Nominations** and **Awards Committee**. One of the roles of this committee is to seek out volunteers to fill the positions on the **Board of Governors**, determine who will step up into the executive positions, and assist in filling the chairs of our various committees. If you have been contemplating increasing your participation in our local **ASHRAE** chapter, please see Bob or myself. There are many roles to fill, and I can attest that it will be a very rewarding experience. Also,



President & CRC Delegate Steve Moons 2014-2015 OVC President Total HVAC

E-mail: Stevem@totalhvac.com

we are reviewing our membership for various awards at the Chapter and Regional level. I would remind you all to please update your biography on the **ASHRAE Society** page so you can be considered for awards you may be eligible for.

I look forward to seeing you all at our **March meeting**, and enjoy another evening while we (hopefully) watch the snow melt.





What You Missed

The fifth meeting of the program year took place at the **Restaurant International** at **Algonquin College**. The meeting was called to order by **President Steve Moons** at 6:25PM and attendees were seated.

The business session commenced with **President Steve Moons** introducing the **Board of Governors** and **Executive**, followed by **Adam Graham** introducing the guests for the evening and giving a final preview of the upcoming part 2 of the hydronic systems design seminar. There were a few students in attendance and we would like to thank everyone that donated a student meal to help make this possible. **Adam Moons** welcomed new members.

Georges Maamari gave the membership an update on the current ASHRAE Research fundraising campaign. Thank you to all that have made a donation to support ASHRAE Research. Joe Della Valle next encouraged membership (specifically YEA members) to attend a social event that took place in late February. Adrianne Mitani introduced the upcoming career fair and encouraged attendance and sponsorship by potential employers.

Dan Redmond introduced the theme of **CTTC**. He then ran through several slides to demonstrate the value and ease of applying for ASHRAE technology awards. The four basic requirements for the application are as follows: The applicant must be an **ASHRAE** member, complete a short form application, brief narrative with system schematic and the project must have been complete for one year prior to submission. We encourage all eligible applicants to apply.

Table top displays were introduced as follows: The **NAD** table top display was introduced by **Chris Fudge** of **Master Group**. The **Fujitsu** table top display was then introduced by **Alex Tamizi** of **Air Solutions**.

During the social hour, the research promotion committee raffled off 4 tickets to an **Ottawa Senators** game. The tickets were graciously donated by **Longhill**. **Michael Grant** was the lucky winner.

Prior to commencement of the tech-

nical program, Steve Moons introduced **Darryl Boyce** as the program speaker. Darryl is the assistant VP of facilities management and planning at **Carleton University** as well as a current **ASHRAE Society VP** and fellow. Darryl started the evening with a brief overview of what is currently going on at **ASHRAE Society**.

Following the business session, attendees enjoyed an excellent seated dinner.

Next, the evening program commenced at around 7:40PM with **Dar-ryl Boyce** introducing the evening topic. The focus of the presentation was on the **SNOLAB** (Sudbury Neutrino Observatory Lab) project that Mr. Boyce was heavily involved in. A description of the project is given below:

SNOLAB is an underground science laboratory located two km below the surface in the Vale Creighton Mine located near Sudbury, Ontario, Canada. The site is off the north shore of **Lake Huron**, approximately 400 km northwest of **Toronto**. **SNO-**LAB is an expansion of the existing facilities constructed for the Sudbury Neutrino Observatory (SNO) solar neutrino experiment. The project was jointly proposed by **Carleton** University, Laurentian University, Queen's University, the University of British Columbia, the University of Guelph and the Universite de Montreal. Including the existing SNO facilities, SNOLAB has 5,000 m2 of clean space underground for experiments and the supporting infrastructure; on surface there is a 3,100 m2 building constructed on the Creighton mine site to support the underground experiments. At nearby Laurentian University there is a facility for radio-isotope measurements and water analysis. Excavation of the underground laboratory expansion began in 2004 and SNOLAB celebrated the official Grand Opening of the laboratory in May 2012.

SNOLAB follows on the important achievements in neutrino physics achieved by SNO and other underground physics measurements. The primary scientific emphasis at SNO-LAB will be on astroparticle physics with the principal topics being: Low Energy Solar Neutrinos, Neutrinoless



Secretary
Adam Graham
2014-2015
OVC Secretary
HTS Ottawa

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Double Beta Decay, Cosmic Dark Matter Searches, Supernova Neutrino Searches.

These are fields where the next generation of experiments require great depths to reduce cosmogenic backgrounds to acceptable levels. They also require extreme levels of cleanliness to reduce environmental radiological backgrounds to the levels necessary for these very sensitive measurements. SNOLAB achieves these goals by being located 2 km underground and by having the entire laboratory constructed as a single large clean room (class 2000).

While particle astrophysics is the principle focus for SNOLAB, there is a growing interest in other scientific fields to exploit deep underground laboratories and their associated infrastructure. In particular, there has been interest expressed in the fields of Seismology and Geophysics interested in precision, long term measurements at depth and in the field of Biology where there is a growing interest in deep underground life.

Mr. Boyce went into detail on the construction process with a focus on the unique design requirements for a facility of this type. Some of the major design challenges were as follows:

- Constructing a building inside a working mine
- **b)** Rock temperatures of a constant 42C (effect on load calcs)
- c) Facility requirement of class 1000/2000 clean lab
- d) Delivery of materials
- Maintaining continued operations of SNO detector
- f) Operating a facility in an active mine
- **g)** Fixed funding as a result of public spending restrictions.

Each of these challenges and the solutions employed were presented along with more detailed information on the actual facility **HVAC systems**. Some key design methods employed

to tackle these unique constraints are the use of construction modeling to plan services, laminar flow high level air supply and low level return, fabric ductwork, creation of a self-contained WWTP, and the use of relatively low cost and high quality controls systems, capable of operation from the surface. The ventilation requirements for this space also presented a very interesting design problem. The ventilation and space pressurization required consideration of continual

blasting from within the facility and the instantaneous changes in pressure that result from this.

This presentation was an interesting view into some of the unique research that is going on in **Canada** along with an excellent overview of how a quality **HVAC** design can tackle such a vast array of potential design issues, and can allow this type of project to be possible.

Upon completion of the presentation, Darryl opened up the floor to questions from the audience. There was great participation with approximately 15 minutes of interesting Q&A. **President Steve Moons** then presented Mr. Boyce with a gift on behalf of the chapter and thanked him for his time.

The meeting was adjourned at 8:50PM.

News Update

ASHRAE, REHVA JOINTLY PUBLISH GUIDE TO CHILLED BEAM SYSTEMS

ATLANTA – Guidance on designing chilled-beam systems is contained in a new book from ASHRAE and the Federation of European Heating, Ventilation and Air-Conditioning Associations (REHVA). The "Active and Passive Beam Application Design Guide" is the result of collaboration by worldwide experts to give system designers a current, authoritative guide on successfully applying active and passive beam technology.

Building on **REHVA**'s previously published **Chilled Beam Application Guidebook**, this new guide provides up-to-date tools and advice for designing, commissioning and operating chilled-beam systems to achieve a determined indoor climate and includes examples of active and passive beam calculations and selections.

Active and passive beam systems are an energy-efficient solution for spaces that require individual zone control and where the internal moisture loads are moderate.

"Active and passive beam systems provide good thermal comfort and energy and space saving advantages, and the operation of such systems is simple, with low maintenance requirements," co-editor **John Woollett** said. "In a building where the goal is a low energy usage index, beams can be an excellent choice of indoor climate product."

Although they are often referred to as "chilled" beams, in many cases active beams can be used for both heating and cooling the space. Active and passive beams are room air recirculation devices that transfer sensible heat to and from the space using water. In addition, conditioned primary air is ducted to active beams. This primary air must satisfy the ventilation and latent requirements of the space and drive the induction of room air through the beam's coil. In the case of passive beams, this primary air is delivered to the space through a decoupled ventilation system. Active and passive beams may be integrated with acoustic ceilings or independently mounted.

Woollett noted that chilled beams have specific applications and work well in commercial office buildings, schools, hospital patient rooms, laboratories and hotels. He said such systems are common in Scandinavian countries where they are a standard choice of indoor climate delivery in a variety of different applications. The book provides information on the basics of operation but also background from engineers developing the beam technology with manufacturers. The main focus is comfort beam application in their passive and active variants.

The cost of the "Active and Passive Beam Application Design Guide" is \$62 (\$53, 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 ANNOUNCES SPRING 2015 ONLINE COURSES; NEW COURSE ON COMMISSIONING PROCESS

ATLANTA – With the commissioning process becoming widely recognized as being critical to the success of



Governor
Daniel Redmond
2014-2015
Chapter Technology
Transfer Chair
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high-performance buildings **ASHRAE** has added a new Learning Institute course focused on requirements in its first commissioning standard.

Taught by **Walter Grondzik**, P.E., the course, "Commissioning Process and Standard 202" is being held March 25, 2015. It is one of 12 Spring Online courses being offered by **ASHRAE**.

In 2005, **ASHRAE Guideline 0**, **The** Commissioning Process, dressed the commissioning process when it was a voluntary element of the building acquisition process. With the incorporation of mandatory commissioning requirements in standards, Such as **ASHRAE/IES/** USGBC Standard 189.1, Standard for the Design of High Performance Green Buildings, it was determined that a code-language description of the commissioning process was needed. That gap was filled with publication of ANSI/ASHRAE/IES Standard 202-2013, Commissioning Process for Buildings and Systems, which provides information on minimum acceptable commissioning process practices.

"The course reviews the commissioning requirements embodied in Standard 202 and links them to Guideline 0 and other technical support documents," **Grondzik** said. "We will provide an understanding of the commissioning process as described by Standard 202, explain how and why the Standard 202 commissioning process differs from that in Guideline 0, and explore how compliance with the standard is likely to evolve."

The 12 **ALI** courses provide professional development through in-depth information that is timely, practical and targeted to provide engineers in consulting practices, facility management or supplier support with instruction on applying **ASHRAE** standards and employing new technologies essential for advanced building performance.

Course participants earn continuing education credits and qualify for **Professional Development Hours** for each course completed. Courses are instructor-led, drawing upon professional knowledge of leading practitioners.

Eight of the courses are part of ASHRAE's Career Enhancement Curriculum, which focuses on IAQ Practices (IAQ) and Energy Savings (ES) Practices. The program helps professionals expand their knowledge in specific areas of HVAC&R and advance their careers.

For registration costs and to register, visit www.ashrae.org/onlinecourses.

Half-day short courses are:

- Fundamentals & Applications of Standard 55-2013 (IAQ Practices), March 9
- Troubleshooting Humidity Control Problems (IAQ Practices), March 11
- Advanced High-Performance Building Design (ES Practices), March 23
- New! Commissioning Process and Standard 202, March 25

- IT Equipment Design Evolution and Data Center Operation Optimization, March 30
- Complying with Standard 90.1-2013: HVAC/Mechanical (ES Practices), April 8
- Fundamental Requirements of Standard 62.1-2013 (IAQ Practices), April 13
- NEW! Understanding Standard 189.1-2014 for High-Performance Green Buildings (ES Practices), April 20
- Complying with Standard 90.1-2013: Envelope/Lighting (ES Practices), May 4
- Exceeding Standard 90.1-2013 to Meet LEED Requirements (ES Practices), May 13

The following courses are comprised of two parts. Registrants must attend both parts in order to receive **CEU/PDH** credits.

- Commercial Building Energy Audits Part 1, April 22 and Part 2, April 27
- Energy Modeling Best Practices and Applications – Part 1, April 29 and Part 2, May 6 (ES Practices)

ASHRAE, IAQA APPROVE CONSOLIDATION

ATLANTA – A consolidation between ASHRAE and the Indoor Air Quality Association has been finalized by both organizations. The consolidation was approved by the Boards of Directors for ASHRAE and IAQA at ASHRAE's recent 2015 Winter Conference in Chicago.

"We are excited about the opportunities presented by this consolidation," ASHRAE President Tom Phoenix said. "It opens the door to alignment of ASHRAE and IAQA programs to create high-impact resources for building professionals around the globe."

"This is an historic event for both associations and has great promise for growth and development for both organizations," IAQA President Kent Rawhouser said. "The opportunities and possibilities for members are only limited by our own imaginations. IAQA and ASHRAE are committed to growing and developing the IAQA brand. The consolidation will open new avenues for programs and benefits for our members."

In July, **ASHRAE** announced it had agreed in principle to join forces with the **IAQA**, combining resources to improve indoor air quality in the built environment. Since August, the two groups have been undergoing a period of due diligence. That diligence was completed earlier in January.

Under the consolidation, IAQA will become a part of the ASHRAE organization while maintaining its own brand and Board of Directors. IAQA will operate independently within **ASHRAE'**s organizational structure. The Indoor Air Quality Association (IAQA) is a nonprofit organizadedicated 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 2,600 members and more than 20 local chapters across the United States and Canada. More information is available at www.iaqa.org/news and at www.ieso.org.



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 Web: www.totalhvac.com Andrew Klassen Account Manager



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Sylvain Chenier, P. Eng., ing., LEED®AP Vice President - Mechanical Sylvain.Chenier@mckeeottawa.ca 1785 Woodward D rive Ottawa, ON K2C 0P9 CANADA Tel.: (613) 723-9585 x128 Fax: (613) 723-9584 www.mckeeottawa.ca

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 **2015 ASHRAE Golf Tournament** is scheduled for Tuesday June 16th, 2015 at the **Marshes Golf Club**.

This year's tournament will be returning to The Marshes Golf Course. Cost for this year's event is still to be determined, but will include 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 and sponsorship opportunities will be available.

One added benefit of the Marshes is the opportunity to access Marchwood, the executive nine hole course on the same property. For those **ASHRAE** 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 will also be sent directly to all of last year's Registered Participants. Spots for returning teams will be held until May 1st 2015, 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 Membership in the past and continued support is appreciated for this year's event. One of the beneficiaries of the tournament is ASHRAE Re**search** 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.



Committee
Chair
Andrew Douma
2014-2015
Special Events Chair
Total HVAC

E-mail: andrewd@totalhvac.com

Should you have any questions about the Tournament or Hole Sponsorship please contact **Andrew Douma** at andrewd@totalhvac.com or by phone at 613.723.4611.

Sincerely,

Your 2015 ASHRAE Golf Tournament Organizing Committee







Larry Gravelle Tel: (613) 721-3301 Fax: (613) 721-4906 I - 877 - 733-3833 www.yorkland.net

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Student Activities

Earlier this month, March 3rd, was the annual **ASHRAE OVC Career Fair** held at the Fenn Lounge at the Residence Commons at **Carleton University** from 3:00 to 6:00pm

There was students from Carleton, uOttawa and Algonquin. We had a great set of employers who had set

up booths from sales reps to consultants to contractors. it was a great representation of our industry.

Thanks to everyone for the support of this great event, through sponsorship or setting up a booth, it is a great way to give back to the local student community.



Committee
Chair
Adrianne Mitani
2014-2015
Student Activity
Chair
Smith and
Andersen

E-mail:Adrianne.Mitani@smithandandersen.com

Free ASHRAE Webinar

Each spring ASHRAE CTTC presents a free 3-hour webinar to members. Attendees may be awarded three (3) Professional Development Hours (PDHs). The webcast program has also been approved for three (3) AIA Learning Units (LUs) and three (3) GBCI Continuing Education Hours (CEs).

Please join the **Ottawa Valley Chapter** as we host this webinar. In

order to ensure that enough seating is available for everyone, please contact **Daniel Redmond** at redmonddan@mmm.ca if you plan to attend. More details regarding the venue will be provided once we know how many people are interested in attending.

For more information please feel free to contact **Daniel Redmond** or visit the **Society CTTC** webpage at the link below.



Governor
Daniel Redmond
2014-2015
Chapter Technology
Transfer Chair
MMM Group

E-mail: RedmondDan@mmm.ca

https://www.ashrae.org/membership--conferences/webcasts



Nominations and Election Announcement

Hello everyone,

It's that time of year again when as members of the Ottawa Valley Chapter, our thoughts turn to the well-being and sustainability of the Chapter, as we consider nominations for next year's **Executive** and **Board** of Governors.

Therefore, on behalf of the Nominating Committee, I am pleased to announce the following members to hold office as the Chapter Executive for 2015-2016, and the positions for which we are seeking nominations:

President - Georges Maamari President-Elect-Abbey Saunders Treasurer - Adam Graham Secretary - Nominations invited

Nominations are also invited for po-

sitions on the Board of Governors, although the number of available positions is not yet determined as we gauge the interest of the existing Board in returning for another term.

complete nominations To the process, we will also be asking for nominations from the floor at the March Chapter meeting. To be considered for the **Board of Governors**, nominees must be Chapter members in good standing with Society and must have consented either orally or in writing to have their name put for-

The election to Chapter officers is a distinct honour bestowed **ASHRAE** members by their peers, and in anticipation of their dedication to the success of the Chapter.

Final recommendations for the avail-



Chair Robert Kilpatrick 2014-2015 Nominations & Awards Chair **NRC-CNRC**

E-mail:

Robert.Kilpatrick@nrc-cnrc.gc.ca

able positions on the Executive and the Board of Governors will be made by the **Nominating Committee** in the coming weeks and will be announced at the April Chapter meet-

The installation of the incoming Executive and Board will be made at the May Chapter meeting, with duties commencing at the start of the Society year.

Thank you for your participation in this important step in ensuring the future of our Chapter!



Young Engineers in ASHRAE

Hi YEA!

I would like to thank all the members who made this year's 2nd event a success.

There was a great mix of members from different professions within our HVAC community, which made for some great conversations around the pool tables.

I plan to have another event around the end of March.

Thank you again for the support.



Committee Chair Joe Della Valle 2014-2015 YEA Chair Walmar Ventilation

E-mail: joedellavalle@walmar.net

March 2015 Capital Communiqué

ASHRAE Technology Award

Are your engineering projects innovative? Do you want to identify yourself as a leader in the HVAC&R industry? Would your clients be interested to know that you are innovative? If so, then the **ASHRAE Technology Awards** program should be of interest to you.

The **ASHRAE Technology Awards** program recognizes 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 Tech- nology Awards** program is threefold

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

Projects submitted should have been in operation 9 months and there are six main categories to which applications may be submitted, as follows:

- Commercial Buildings (New, Existing and Retrocommissioning)
- II. Institutional Buildings (New, Existing and Retrocommissioning)
 - Educational Facilities
 - Other Institutional
- **III.**Health Care Facilities (New, Existing and Retrocommissioning)
- IV. Industrial Facilities or Processes (New, Existing and Retrocommissioning)
- V. Public Assembly Facilities (New, Existing and Retrocommissioning)
- **VI.** Residential (New, Existing and Retrocommissioning)

Winners will be recognized at the chapter level and may be able to submit their project for a regional or even societal award to gain exposure well beyond our local chapter.

The **ASHRAE** website has plenty of helpful information to guide you during the application process. The technology awards section of the **ASHRAE** website is located at the link 1 below.

The deadline for application to Chapter is **March 20th, 2015**.

Submission at the chapter level is not very complicated or time consuming. The following is all that is required for submission:



Governor
Daniel Redmond
2014-2015
Chapter Technology
Transfer Chair
MMM Group

E-mail: RedmondDan@mmm.ca

- 1. Submission of the short form application form (please see example below)
- Provide a system schematic/diagram not larger than 11" x 17" in size
- **3.** Attach a brief narrative (maximum of 2 pages)

For further information please find a fillable version of the application form at the end of this Newsletter and on the Society webpage at the link 2 below.

If you have any questions or concerns, please don't hesitate to contact the **OVC CTTC Technology Awards Team**:

- Andrew Douma

 (andrewd@totalhvac.com)
- Michael Grant (Michael.Grant@trane.com)
- Daniel Redmond (redmonddan@mmm.ca)

Thank you and I hope you realize that the work you do every day is worthy of recognition. Please consider submitting your projects for an **ASHRAE Technology Award**.

Link 1: http://www.ashrae.org/membership--conferences/honors--awards/technology-awards-program Link 2:

https://www.ashrae.org/File%20Library/docLib/HonorsandAwards/AwardDocs/Tech-Award-Application-Short-Form-June-2014.pdf



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.

The featured table-tops for the March

OVC meeting are **Loren Cook** presented by HTS and MK Plastics presented by Walmar.

Remember to drop by and check out the displays, and thank you for your continued support of our ASHRAE Ottawa Valley Chapter.



Committee Chair Andrew Klassen 2014-2015 Table Top Committee Chair

Trane Canada ULC

E-mail: andrew.klassen@trane.com



Loren Cook Company is a leader in the design and manusystems, and energy recovery ventilators. Their products ventilate institutional, laboratory, commercial and industrial facilities worldwide. Loren Cook's culture is to provide superscripts and excellent customer service. Statefacturing of fans, blowers, gravity vents, laboratory exhaust rior product quality and excellent customer service. Stateof-the-art computer software and a fully equipped AMCA

certified lab allow COOK engineers to stretch the limits to create increasingly efficient and higher quality air moving equipment.



Loren Cook is proudly represented locally by **HTS**. As one of the largest independent built-to-order commercial and industrial full service HVAC manufacturer's representatives in North America, HTS credits its growth and market share to a steadfast commitment to the shared success of all the individuals involved in the design, selection, installation and maintenance of the right HVAC solution for each project. With an unwavering emphasis on the end-user having a delightful owning experience, HTS provides the most reliable and efficient equipment to significantly reduce total building ownership costs.



Founded in 1963, **MK Plastics** is a global leader in the production of corrosion-resistant industrial and commercial blowers, fans, and ventilation systems. Patented in several countries, CORPORATION their innovative technologies are AMCA certified for performance and noise. MK Plastics fans and blowers are ideal for environments where there are problems with corrosion due to the con-

taminants in exhaust air including research facilities, clean rooms, laboratories, technology and chemical processing facilities.



Membership Update

Greetings Everyone!

As we make our way through the second half of our **ASHRAE** season, I'd like to remind you all to set about your membership renewals in a timely fashion. The link below will take you to the site that can address all your membership needs.

does not stay current unless you address it personally. To that end, there are a lot of **PAOE** points available to our chapter for the many great things that we do as individuals and as a chapter. Please make an effort to keep your profile current. If there are any questions about this, I am happy to help!

A reminder as well that your profile Looking forward to seeing you at the

https://www.ashrae.org/membership--conferences/renew-my-membership



Committee Chair Adam Moons 2014-2015 Membership Committee Chair Walmar Ventilation **Products**

E-mail: adam@walmar.net next **ASHRAE** event!

10 March 2015 Capital Communiqué

2014-2015 Research **Promotion Campaign**

ASHRAE conducts timely research to remain the foremost, authoritative and responsive international source of technical and educational information, standards and guides on the interaction between people and the indoor and outdoor environment through the operation of HVAC&R systems in buildings. The ASHRAE **Board of Directors** requires that a Strategic Plan for ASHRAE Research be prepared and updated every five years. The plan identifies key HVAC&R research needs and provides that information **ASHRAE** members and technical committees as guidance while they develop research projects and to the Research Administration Committee as it approves and funds research proposals. The **Research Plan** is not meant to take the initiative for research design from the cognizant committees, but rather to use input from **ASHRAE** members to identify strategic research needs that are appropriate for many committees to collaborate on, that may require larger budgets, and for which additional outside funding may be available to supplement **ASHRAE**'s budaet.

The ASHRAE Research Strategic **Plan** for 2010-2015 consists of 11 strategic goals that were chosen to address technical challenges that limit our ability to maximize building performance, energy efficiency and indoor environmental quality while minimizing our impact on the environment. Meeting any of the 11 strategic goals will require coordinated effort among multiple technical committees. Information on the new strategic plan can be found on the **ASHRAE Research** website.

At the February meeting, we raffled off 2 tickets to the Ottawa vs Calagary game that were generously do-Longhill nated by Energy These tickets helped Products. raise \$390 towards ASHRAE Research. The hockey raffle will continue at the March meeting.

As of March 1st, we have raised over \$15,400.00 towards our campaign goal, which means we are at 62% of our \$25,000 objective. With the amazing support that we have received to date, we are right on track of meeting our RP campaign objective. Our RP committee will likely start the calling campaign within the next few weeks, so please have your check book ready! I would like to thank our donors to date for the 2014-2015 RP Campaign. This list will be updated for each monthly

Thank you for your continued support of ASHRAE Research Canada!

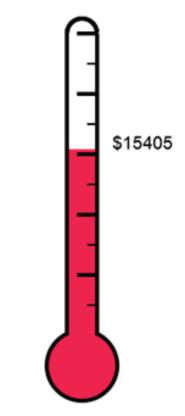
Georges Maamari, P.Eng President-Elect and RP Chair 613-596-6454 1960 Robertson Rd. Suite 100 Ottawa, Ontario, K2H 5B9



President-Elect Georges Maamari 2014-2015 Research Promotion **BPA**

E-mail: gmaamari@bpa.ca

Target: \$25000



Honor Roll Donor	Major Donor Antique	Major Donor Bronze	Major Donor Silver	Associate Donor	
Rod Potter	Engineered Air	SK Sheet Metal	Goodkey Weedmark	Nortec Humidity	
Steve Moons	Walmar Ventilation	Total HVAC	& Associates	Ltd.	
Georges Maamari	Airtron	Mechanical Contractor		Longhill Energy	
Abbey Saunders		Association			
Adam Graham		BPA inc.			
Gemma Kerr		Isotherm Commissioning			
Mike Swayne					
Chris Fudge					
Richard Albert					
Robert Kilpatrick					
Patrick St-Onge					
T.A. Morrison & Co.					

March 2015 11 Capital Communiqué

Job Posting

Intermediate to Senior Buildings Engineer



Description:

A career advancement opportunity exists for a highly motivated senior or advanced intermediate Professional Mechanical Engineer to assume or grow into a leadership role within our **NORR Ottawa** office. NORR is a multidisciplinary Architectural and Engineering services company providing Mechanical, Electrical and Structural engineering services as well as Architectural and Interior design. NORR has consistently been awarded many of the largest and most prestigious and complex projects in Ottawa and the surrounding area. Building design will span both existing/heritage building renovations and new construction of commercial, government, education, residential, recreational, transportation, and research laboratories. Our staff consists of a dynamic group of highly skilled professionals that work as a closely collaborative team towards the shared success of each project.

The success of any one professional discipline is measured based on the success of the project as a whole and not along departmental lines. This sets the stage for highly integrated and collaborative design, enriching the professional knowledge and design participation across various elements of building design. The opportunity exists to take a leadership role in the design development process working closely with the clients and architects to define building systems that are innovative, sustainable and closely integrated with the architectural and client vision that delivers superior project performance to our clients. Some overseas project opportunities may also exist is such places as Europe, Africa and Asia.

The successful candidate will assume the position of Senior Mechanical Engineer responsible to manage, mentor and ensure the highest level of quality of work generated by the mechanical design team. Senior engineering design ability is fundamentally required for HVAC, plumbing and fire protection. Also required is a working knowledge of codes and standards, , strong communications skills and good interpersonal skills for interaction with external and internal clients and stakeholders. Design applications will include building loads analysis for HVAC and plumbing. Also required is the selection and design application of equipment and building services components including building automation systems and control logic. You will be responsible for the creation of construction contract documents in the form of drawing and specifications that will be reviewed and sealed. In addition to design related engineering, your responsibilities will include, participating in sales and marketing activities to develop proposals and participate in design competitions.

Qualifications:

You possess at least a Bachelor's degree in mechanical engineering or equivalent and shall have a Professional Engineers designation in the Province of Ontario. You possess a solid knowledge of mechanical building services design combined with a minimum of 10 years of relevant experience. You are a self-motivated team player with experience in site investigations, construction review, CAD and, or REVIT drawing, specification and report writing and presentations. Access to a personal vehicle to visit sites is required. Other valued skills that will be taken into consideration include sustainable design experience such LEED™ certified building design, building energy simulations such as EE4 and EQEST, energy and water conservation design applications. Preference may also be given to those candidates with the ability to communicate effectively in both official languages. Your leadership and project management skills including; preparation of work plans for new assignments, organizing and arranging work programs to meet cost and time schedules, and administrative functions will also be highly valued. Your excellent organization, interpersonal and communication skills are required to meet project schedules, liaise with clients and fellow design professionals.

For additional information about NORR and the services we provide we encourage you to visit our website at www.norr.com

To Apply:

Interested candidates should forward, in confidence, a resume and covering letter to:

Chris Pal, P.Eng., LEED™ AP Director of Engineering NORR Ltd. 175 Bloor St. East, Toronto, Ontario M4W 3R8, Canada

Email: chris.pal@norr.com

Advertising

Advertising career opportunities on the **ASHRAE** Ottawa Valley website makes good business sense. We offer a unique way to reach technical professionals and make your ad dollars work hard for you.

To discuss your needs, contact one of our chapter officers, via our "This Year" page. Increase the impact of your advertising through the **ASHRAE** Ottawa Valley website today.



President & CRC Delegate Steve Moons 2014-2015 OVC President Total HVAC

E-mail: stevem@totalhvac.com

Rates for career opportunities ads are as follows:

Chapter Member: \$50/month Non-member: \$250/month

Placement of an Ad

We suggest that you complete and submit our advertisement form to speed up the processing of your request. If you have provided your e-mail address, a confirmation receipt e-mail will be sent to you for reference.

Please note that ads require prepayment made to the treasurer. Please register and pay online or for payment and other information contact **Abbey Saunders** at abbey.saunders@nrc-cnrc.gc.ca.

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.

2014-2015 **President** Steve Moons **President-Elect** Georges Maamari Treasurer **Abbey Saunders** Secretary Adam Graham **Governors** Richard Cameron Chris Fudge Aaron Dobson **Chris Frauley** Daniel Redmond **Past President** Roderic Potter Committees **Attendance** Sandy Taylor Audit Stephen Lynch Capital Communiqué Richard Cameron Celine Baribeau **CRC** Steve Moons CTTC 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** Georges Maamari **Program** Brian Tohana

> Atma Anantram Research **Promotion** Georges Maamari Roster Georges Maamari **Special Events** Chris Healey Andrew Douma Student **Activities** Adrianne Mitani Table Top Andrew Klassen YEA Joe Della Valle Website Roderic Potter

> > March 2015 13



CHAPTER/REGIONAL TECHNOLOGY AWARD APPLICATION SHORT FORM

(Revision June 2014)

INTRODUCTION:

This Short Form has been developed to stimulate more participation in chapter and regional competition. <u>This form is not intended to replace the full Society Technology Award Application form.</u> Regional winners using the short form will be required to complete the full Technology Award Application form before their applications can be forwarded for Society Competition. (This form does not require extensive narrative, plans or photographs.)

INSTRUCTIONS:

- A. The individual submitting the Technology Award Application must be a current member of ASHRAE who had a significant role in the design or development of the project.
- B. Complete the "Short Form" and use it as the cover page.
- C. Provide a system schematic/diagram not larger than 11" x 17" in size. In addition, attach a brief narrative (maximum of 2 pages). The narrative should include the gross and net building areas applicable to the project, a description of the major building areas (i.e., operating rooms, laboratories, computer rooms, industrial processes, offices, warehouses) and a brief discussion regarding the following five criteria (if a criterion is not applicable, state accordingly):
 - Energy Efficiency
 - Indoor Air Quality
 - Innovation
 - Operation & Maintenance
 - Cost Effectiveness
 - Environmental Impact
- D. Submit your schematic, brief narrative, and completed form to your Chapter Technology Committee Chapter (CTTC) Chair for judging at the chapter level in accordance with their instructions.
- E. The ASHRAE Technology Award program is intended for built projects. First place winning projects should be eligible for submission to the Society level competition on September 1st of the following Society calendar year. Therefore, a project submitted to a Chapter or Regional competition shall be occupied prior to September 1st of the current Society year in order satisfy the proceeding Society level competition requirement of one full year of occupancy.

First place winners in each category from chapter competition will be submitted by the CTTC Chapter Chair to the CTTC Regional Vice Chair for judging in the Regional Technology Awards competition. At the discretion of the CTTC Regional Vice Chair, this may require completion of the full Society Technology Award Application form if the chapter submission was done on the Short Form Application.

The CTTC Regional Vice Chair will invite first place winners in each category from regional competition to submit them for judging in the Society level Technology Awards competition. The regional winners will be given the opportunity to incorporate new information or otherwise improve their submittal before submitting it to the society level competition (e.g., by addressing comments from regional judges). At the discretion of the judging panels at the chapter and regional competitions, more than one first place winner may be awarded in each category.

For the regional competition, submit the number of copies requested by the Regional CTTC Vice Chair. The CTTC Regional Vice Chair may require entries into the regional competition to be done on the full Society Technology Award Application form. In any case, all submissions to the Society level competition must be done on the full Society Technology Award Application form.

F. It is highly recommended that each entrant confirm by letter (and retain a copy for record) to the owner that the owner has granted permission to submit this project to competition.

NOTE: ASHRAE Technology Awards are the HVAC&R industry's most prestigious honor for efficient energy use in buildings and environmental system performance. While the awards do not certify responsible charge or professional license status, they do recognize outstanding design innovation and successful implementation.

CHAPTER/REGIONAL TECHNOLOGY AWARD - SHORT FORM

1.	Category - Check one ar	ia indicate new, Ex	kisting, or Reti	ocommissi	oning (KCX)		
	☐ Commercial Buildir	ngs		New		Existing or		RCx
	Institutional Buildin	igs:						
	Educational Fa	cilities		New		Existing or		RCx
	Other Institution	nal		New		Existing or		RCx
	☐ Health Care Faciliti	es		New		Existing or		RCx
	☐ Industrial Facilities	or Processes		New		Existing or		RCx
	☐ Public Assembly			New		Existing or		RCx
	Residential (Single	and Multi-Family)				-		
	, C	,						
2.	Name of building or proj	ect:						
	City/S	tate:						
	J y , J							
3.	Project Description:							
	Project Study/Design P	eriod:		to				
	.,,		date (mm/yyyy		Е	nd date (mm	/уууу	·)
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4.	Percent Occupancy at to Entrant (ASHRAE members) a. Name: Membership Num Chapter: Region:	Begin of submission of submiss	:): First		Middle		
4.	Percent Occupancy at to Entrant (ASHRAE members) a. Name: Membership Num Chapter: Region:	Begin of submission of submiss	role in project): First		Middle	;	
4.	Percent Occupancy at to Entrant (ASHRAE members) a. Name: Membership Num Chapter: Region: b. Address (including of City) c. Telephone: (0)	Begin of submission of submiss	role in project): First Zip		Middle	у	
4.	Percent Occupancy at to Entrant (ASHRAE members) a. Name: Membership Num Chapter: Region: b. Address (including of	Begin of submission of submiss	role in project): First Zip		Middle	у	
4.	Percent Occupancy at to Entrant (ASHRAE members) a. Name: Membership Num Chapter: Region: b. Address (including of City) c. Telephone: (0)	Begin of submission of submiss	role in project State d. Ema): First Zip		Middle	у	
4.	Percent Occupancy at to Entrant (ASHRAE members) a. Name: Membership Num Chapter: Region: b. Address (including of city) c. Telephone: (0) e. Member's Role in	Begin of submission of submiss	role in project State d. Ema): First Zip		Middle	у	

By affixing my signature above, I certify that the information contained in this application is accurate to the best of my knowledge. In addition, I certify that I have discussed this entry with the owner and have received permission from the owner to submit this project to the ASHRAE Technology Awards Competition.