



Capital Communiqué



ASHRAE - AMERICAN SOCIETY OF
HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS

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OTTAWA VALLEY CHAPTER

e-mail: contact@ashrae.ottawa.on.ca

2011 - 2012

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PAOE

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Nominations

Robert Kilpatrick

CRC Action

Donald Weekes

Roderic Potter

President & CRC Delegate



President's Message

Stephen Lynch

Chapter President 2011-2012

Direct Energy

E-mail: stephen.lynch@directenergy.com

I trust everyone is enjoying their summer. This will be a short summer communiqué to communicate to you what we have been up to while everyone has been enjoying the wonderful weather. The last time we gathered was at the annual golf tournament, which was another huge success, thanks to all our volunteers and people who made it possible.

The Executive, Board and Chairs have been working very hard over the summer getting the program ready for the year. We have most of our speakers, technical sessions, tours, etc. ready, but are always looking for feedback and great ideas. We always need some backup ideas should we run into issues in delivering the program. Please contact myself or any Board member, should you have questions, comments, ideas or feedback. We have also been preparing for this summer's CRC (Chapter Regional Conference) in Quebec City; I will provide more information later in this Communiqué.

Another change you will see coming is **on-line registration and payments**. The Finance Committee has been working with a web-developer and our bank to evolve our current credit card payment offering into a web-based solution. This will allow all of our members and guests to pre-register and pay for any event, including the monthly meetings. This has been part of a 3-year plan and is coming together very well. We believe that this will be easier for both the volunteers who keep our chapter program and finances in order and the membership.

Things to keep in your calendar:

- Chapter Regional Conference Quebec City: August 26th, 27th, 28th
- First Meeting: September 20th at the Travelodge
- Next Communiqué: Week of September 5th

The membership will be receiving an email before the September meeting describing the On-Line registration and payments.

We encourage you to promote our chapter and get the word out. Attendance has been improving and we want to see the trend continue.

Enjoy the rest of the summer and we will see you all September 20th at the Travelodge

Stephen Lynch, P.Eng.

2011 – 2012 ASHRAE OVC President





What You Missed – May Meeting

Roderic Potter
 Treasurer 2011-2012
 Webmaster 2011-2012
 Chapter Historian 2011-2012
 Rodders CAS
 E-mail: ashrae@rodders.com

The meeting took place at the Travelodge Hotel and Conference Center on Carling Avenue in Ottawa, in the Greenery Room upstairs.

The business session started Secretary Rod Potter who introduced the guests for the evening. This was followed by Glenn MacLean, who spoke about the Al Oakes Award, which he presented jointly to Chris Frauley and Barry Riddell, for their outstanding work supporting the Student Design competition. In Barry's absence, Chris Frauley humbly accepted the award on their behalf.

Nominations Committee Chair Bob Kilpatrick apologized to Christine Kemp for omitting her as Past President from the nominations list announced at the April meeting. He then proceeded to swear in the new 2011-2012 Board and Executive as follows:

President: *Stephen Lynch*; President-Elect: *Don Weekes*; Treasurer: *Rod Potter*; Secretary: *Steve Moons*; Governors: *Paul Baker, Georges Maamari, Peter Paciorek, Abbey Saunders*, and *Chris Fudge*; Past-President: *Christine Kemp*.

President Stephen Lynch presented Christine Kemp with an ASHRAE certificate of appreciation, and carefully installed the Past-President's Pin on Christine's blouse. Christine thanked the BOG and Executive for their efforts during her Presidential Year, and wished Stephen all the best for his year. Stephen thanked Christine for her efforts and went on to thank all of the Past-Presidents (22 of which were present!), companies that support our chapter, volunteers, and finally the membership itself. He stated that we now have 408 Society-assigned members, and 250+ Chapter members.



Chris Frauley accepts the Al Oakes Award



Stephen Lynch and Christine Kemp

Dinner was served at about 7:10pm and unfortunately this was not the finest hour for the Travelodge. Serious discussions have ensued through the summer and we are promised higher quality for future meetings.

After dinner, AAF representative Dan Angers spoke about their Tabletop Display. Then Membership Chair Adam Moons announced four new chapter members: Taylor Graf, Henry Zwiers, Samuel Joannis, and Claude Fortier PhD.

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106 COLONNADE ROAD N.
 SUITE 200
 OTTAWA, ON K2E 7L6

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Evening Program – Hospital Filtration Systems and Airborne Contaminant Control

- Brian Monk spoke extensively about Hospital Filtration Systems and Airborne Contaminant Control:
- Particulate gas contaminant in hospital settings;
- He noted that many experts in the filtration field were present at our meeting and he encouraged open discussion on the subject;
- He spoke about Guide 62.1 as applied to Healthcare Facilities;
- He discussed Filtration Committees TC2.3 gas, TC2.4 Particulate, TC2.9 UVGI, and TG HVAC Security.
- The provision of adequate ventilation air is of prime importance and he compared the various types of healthcare facility such as laser eye surgery clinics and HIV Dentistry clinics, with their varying outdoor air requirements;
- Many legacy buildings have outdoor air intakes that are now being exposed to hazardous fumes, such as street level air intakes drawing in vehicle exhaust, and hospitals with roof level air intakes now being contaminated by helicopters landing on the roof - this now requiring filter retrofit on the air intakes;
- He went on to discuss the various types of filter technology currently available; ultra-violet light was discussed because of its ability to kill virus bacteria.

President Christine Kemp thanked Brian for his presentation and gave him a small gift. The Meeting adjourned at about 20:50.



Chris Frauley flanked by students



Brian Monk presented

As always, you can visit our website to peruse all of the photos from this and previous meetings. This link will take you to photos from the May Meeting:

https://picasaweb.google.com/ashraeovc/20110517_MTG08_Past_Presidents_Night



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Jim Siciliano, P.Eng.
Partner/Mechanical Section Head
Jim.Siciliano@mckeeottawa.ca

1785 Woodward Drive
Ottawa, ON K2C 0P9
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REGULVAR CANADA INC.
170, Laurier Avenue West, suite 714
Ottawa (Ontario)
Canada K1P 5V5
Tel.: (613) 565-2129
Fax: (613) 565-8895

Stéphan Riffault, P.Eng.
Sales Engineer
sriffault@regulvar.com



On-Line Registration & Payment

Roderic Potter

Treasurer 2011-2012

Webmaster 2011-2012

Chapter Historian 2011-2012

Rodders CAS

E-mail: ashrae@rodders.com

Through the wonders of modern science, many mirrors and pieces of string, our Chapter will soon enter the e-commerce space age and switch-over to on-line registration and payment for all events, meal plans, business card adverts, and other exciting things we have yet to discover. This service is being incorporated through the hard work of **John Withnall** of *Webcanvas.ca*, a locally owned and operated company.

You will still be able to read about meeting plans and other events at our trusty ASHRAE OVC website, but you will be encouraged to register for meetings etc. by clicking on an appropriate link. This will take you to the Webcanvas.ca website that is unique to our Chapter, and from there you will be able to register for meetings, pay Chapter dues, pay for your meal plan, you name it.

Soon you will receive an email via the Webcanvas.ca system that will encourage you to visit the site and log-in. Webcanvas has populated our membership database via a file provided by ASHRAE Atlanta, so let's hope your email address and contact information at headquarters is up to date! Your username will be your email address currently on-file in Atlanta, and your password will be a temporary jumble of letters/numbers which you will be able to change as you wish.

In future this system will automatically let us know how many people will be attending an event because you will be registering on-line. Strictly speaking, we will not have to be sending out reminders for meetings anymore (but I might occasionally do this anyway to bug you).

As stated earlier the membership database has been populated by Atlanta. This database has no direct link to my local member database. So when that first email is sent out encouraging you to log-in and check out the new interface, you might not get it! This sort of thing happens when people change jobs and forget to update their information, such as that rascal **Pat Albert**, who still has not forwarded his contact info. to me. Perhaps he owes me money?

Note here that *guests* will also be able to register for events through the new interface. They simply will not log-in when doing so. The system is designed to be clever so that when you log-in, it knows whether you have paid you Chapter dues and anything else relevant.

We are rather excited about the new system and are hoping that its roll-out will be trouble-free. But we also know that trouble happens in paradise – so we may need to be patient.

Cheers from the desk of Rodders CAS





CRC 2011 – Quebec City

Stephen Lynch

Chapter President 2011-2012

Direct Energy Business Services Limited

E-mail: stephen.lynch@directenergy.com

The Board and Chairs have been preparing for this year's Chapter Regional Conference (CRC). The CRC is intended to provide a forum for the dissemination of information pertaining to chapter and regional activities. More generally, it is a resource for ASHRAE Chapter volunteers to connect with ASHRAE Society and understand the vision for the coming year.

What is achieved at a CRC?

- Chapters report their activities for the previous year and establish goals for the coming year.
- Regional officers report their activities and plans.
- Society officers inform the region of Society plans, review chapter activities within the region and participate in workshops.
- Chapter delegates submit motions for proper review.
- Chapter delegates present nominees for Society and regional offices and candidates for honors and awards.
- Conduct chapter workshops that will educate and prepare officers and committee members to fulfill their responsibilities.
- Conduct technical sessions on subjects that will educate as well as increase attendance.
- Organized social activities that will increase attendance and promote camaraderie.
- Recognize and present awards to chapter and regional members.

At a CRC we are also reminded of the key elements that make up ASHRAE as an international organization. The following are key elements that position ASHRAE on the international stage:

ASHRAE Mission Statement:

To advance the arts and sciences of HVAC&R to serve humanity and promote a sustainable world

ASHRAE's Core Values:

Advancement - We are committed to the advancement of the arts and sciences of HVAC&R for the benefit of society through research, technology development and transfer, and education and training.

Leadership - We are committed to providing leadership within our industry, and developing leadership qualities in our members.

Integrity - We are committed to honesty in the practice of our profession as embodied in the ASHRAE Code of Ethics.

Service - We are committed to service to our members and to the public.

Excellence - We are committed to the achievement of technical quality and excellence in our programs, publications, courses and other activities.

ASHRAE Vision:

ASHRAE will be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating.

We appreciate the time that our volunteers have made to prepare for this conference and the time they are taking away from family and the office to participate to improve our chapter.

Stephen Lynch, P.Eng.

2011 – 2012 ASHRAE OVC President

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 ray.rochefort@siemens.com
 www.sbt.siemens.com

Ray Rochefort
 Area General Manager

Smith + Andersen

David Eastwood P.Eng.
 Principal
 613 230 1186 ext. 403
 david.eastwood@smithandandersen.com

1600 Carling Avenue Suite 530 Ottawa Ontario K1Z 1G3
 t 613 2301186 f 613 2302598 smithandandersen.com

Ottawa Vancouver Toronto Edmonton Dubai Calgary

Committee
Chair



2011 ASHRAE Golf Tournament

Andrew Douma
 Total HVAC
 E-mail: andrewd@totalhvac.com

A big Thank You goes out to all those who participated and volunteered their time to help out with the 2011 ASHRAE Golf Tournament. The staff at Loch March put on a great event while we enjoyed fantastic weather and a wonderful day of golf.

I would especially like to thank the many volunteers who generously gave their time to this event. Stan Millross, Cathy Godin, Adam Beales, Cynthia Gillis, Posy Healey, Shariffe Ghadban, Christine Kemp, Stephen Lynch, Don Weekes, Rod Potter and Chris Healey among others all offered great support.

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

Thanks to the efforts and support of everybody this year's golf tournament was able to raise just over \$ 9,000 for ASHRAE Research. These monies will be staying in Canada and will going towards further research and development of standards and guide lines that will benefit our industry.

Thanks again to everybody for their support of the ASHRAE Golf Tournament and we look forward to seeing everybody next year. As always, you can view photos taken during the event by clicking the appropriate link on our This Year page: http://www.ashrae.ottawa.on.ca/ashraeoc_ThisYear.shtml

Sincerely,
 Your 2011 ASHRAE Golf Tournament Organizing Committee

Governor



ASHRAE Society News

Peter Paciorek
 Governor 2011-2012
 Alliance Engineering
 E-mail: peter@allianceengineering.ca

News This Month from ASHRAE Society

ASHRAE Conferences Brings Together Industry Professionals

Perspectives on design styles and experiences from around the world were shared by nearly 2,000 built environment industry professionals at ASHRAE's 2011 Annual Conference. The theme of the Conference, Sustainability Knows No Borders, highlighted the international reach of ASHRAE's membership.

Some 1,690 people attended the Conference, held June 26-29, in Montreal, Quebec. Attendance was higher than the last three ASHRAE annual conferences, which took place in Albuquerque, Salt Lake City and Louisville.

AMERESCO CANADA

ROY SAMHABER, P.ENG.
SENIOR PROJECT MANAGER

106 COLONNADE ROAD N.
SUITE 200
OTTAWA, ON K2E 7L6

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The ASHRAE Conference offered a technical program with nearly 300 presentations, nine educational courses and numerous social events. The meeting also featured nearly 400 meetings of technical, standards and standing committees, developing guidance for the future of the industry and ASHRAE.

The Plenary session, where nearly 60 members were honored for their service to ASHRAE, also served as the platform for Presidential Member Lynn G. Bellenger's final address to the Society as ASHRAE president.

Technical program highlights included several sessions that provided new applications and current practices, such as: case studies of new buildings without commissioning, using building energy information in a smart grid, selecting fans for minimum energy usage, emerging wireless technologies for HVAC&R applications, improving performance of refrigeration systems, back to basics on airflow in unitary systems, energy recovery issues in dedicated outdoor-air systems, unique applications of photovoltaic systems, applications of high temperature cooling and low temperature heating and HVAC&R design checklists that work. As usual, sessions on ground source heat pumps and radiant cooling systems drew large audiences.

Net zero energy-related sessions were the highest-attended, especially methodologies for determining environmental impacts of buildings, renewable energy technologies for achieving net-zero energy design, challenges in making green buildings a way of life, design strategies for net-zero energy residential buildings, combined heat and power for net zero energy buildings, and alternate heating, cooling and domestic water heating technologies to reduce building energy usage.

Also offered were two Professional Development Seminars and seven short courses from the ASHRAE Learning Institute. The most popular courses were Advanced High-Performance Building Design; Energy Management in New and Existing Buildings; and Basics of High-Performance Building Design.

Top selling publications included Standard 189.1-2009, Standard for the Design of High-Performance, Green Buildings; Standard 62.1-2010, Ventilation for Acceptable Indoor Air Quality; and the 2011 Annual Conference pre-prints CD, which contains all papers presented at the conference.

Ron Jarnagin took office as the Society's 2011-2012 president. His theme for the year, Sustaining ASHRAE through Leadership, focuses on developing future leadership, building the Society's global presence and strengthening the industry.

Additionally, six students from Polytechnique de Montréal, along with members of the Montreal Chapter, are working to improve the quality of life at Accueil Bonneau, a local homeless shelter, as part of ASHRAE's Sustainable Footprint project. The project is intended to leave behind a lasting sustainable footprint in the cities where the Society's conferences are held. The members hope to reduce operating expenses of the shelter through the overall design and commissioning of a domestic water heating solar system which will significantly reduce costs of water heating.

What is Energy Use Intensity? ASHRAE Seeks to Define, Educate

ATLANTA – While the importance of building energy performance metrics to reduce energy use is accepted worldwide, there is no single generally accepted definition of that metric. Currently, proposed relative energy use reduction targets are subject to interpretation and difficult to verify.

Under a new initiative, ASHRAE is working to define one clear, logical metric to move the building industry toward producing net zero energy buildings by 2030. The U.S. Congress has mandated a series of relative fossil fuel energy use reductions in federal buildings ending in a 100 percent reduction of fossil fuel energy by 2030. Congress is considering applying similar relative energy use reductions in all buildings through the use of building energy codes adopted by state and local government.

“We must address buildings as entire living entities,” ASHRAE President Ron Jarnagin said. “As such, we need to establish energy targets for building design that provide a total building energy use goal to strive toward that can subsequently drive the development and application of any number of prescriptive solutions.”

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Mechanical Engineer

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Fax: 613-828-2600
email: gregt@jp2g.com

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A forum seeking input on the energy target initiative was held at ASHRAE's 2011 Annual Conference in Montreal, June 25-29. Also, ASHRAE has developed a public policy brief asking Congress to foster collaboration among the U.S. Department of Energy, the National Institute of Standards and Technology and the U.S. Environmental Protection Agency and ASHRAE along with partner organizations to:

- Establish a single objective definition of energy use intensity (EUI) for the design of commercial buildings
- Determine a single objective baseline EUI for design of commercial buildings from which to measure relative energy use reductions
- Create a performance environment that will support reduction in energy consumption associated with all loads in commercial buildings
- Identify a single objective set of commercial building types and simulation models for establishment of target design EUIs
- Produce one set of design target EUIs for the commercial building sector to guide the development of future energy codes and standards and building energy codes adopted by state and local government

"EUIs are very helpful for setting performance-based design goals," Jarnagin said. "The current focus on reduction of energy use in building stock has made the use of EUIs popular by governmental organizations, non-government organizations and building industry groups, including ASHRAE. Given that there is no clear single definition for EUIs, comparing one organization's EUI goals to another's is confusing, particularly since everyone tends to use the same units, kBtu/ft²-yr. Our goal is to develop and promote technical tools to assist the commercial building design and construction industry in moving toward higher performing buildings. Defining design energy use targets is a large part of achieving that goal."

Rod Lancefield, P.Eng., LEED*AP
Engineering Sales
rod@htseng.com
C 613.851.1997

HTS Ottawa
1646 Woodward Dr.
Ottawa, Ontario K2C 3R8
T 613.728.7400 Ext. 221
F 613.728.8032
Toll Free 888.290.8544
ontario.htseng.com



InAIR Environmental Ltd.

Lan Chi Nguyen Thi, P.Eng.
Partner

1390 Prince of Wales Dr., Suite 503
Ottawa, Ontario K2C 3N6
Phone 613.224.3863
Fax 613.224.2561
lanchi.nguyen@inairenvironmental.ca
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Patrick St. Onge, P.Eng., LEED AP
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www.WBBEngineering.com
patrick.stonge@WBBEngineering.com

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www.wesmechtech.com

Joseph McCallion, C.E.T.
President
josephm@wesmechtech.com cell: 416-720-8876

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Fax: (613) 723-4677
Res: (613) 825-7319
Cell: (613) 723-2112
Email: adam@totalhvac.com

Total HVAC Inc.
29 Cleopatra Drive
Nepean, Ontario
Canada, K2G 0B6

Paul B. Baker, P.Eng., LEED AP
General Sales Manager

TRANE

1024 Morrison Drive
Ottawa, ON
K2H 8K7
Tel (613) 820-8111
Fax (613) 820-1414
Paul.Baker@trane.com
www.trane.com



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vanfort@vanfort.ca

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Mike Swayne
P. Eng.
Manager, Mechanical & Electrical Engineering
T 613 759 5354
Mike.Swayne@norr.com

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cell: 613-880-8504
danny@difo.com

Danny Dillon, GSC
President

Stephen Lynch, P.Eng./PSE
Account Executive
Services

Direct Energy Business Services
100 - 2935 Conroy Rd
Ottawa, ON
K1G 6C6
613.247.7451 Direct
613.371.9814 Cell
613.247.7980 Fax

Direct Energy

stephen.lynch@directenergy.com
www.directenergy.com

Longhill Energy

Chris Harrison
Engineered Sales

chesh@longhill.ca
www.longhill.ca
Phone: 613-226-3856
Fax: 613-229-2715
15 -111 Capella Court, Ottawa, Ontario K2E 7X1

The Energy Conservation People

Kashyap Desai, P.Eng.
Associate, Buildings Engineering
HVAC and Chiller System Specialist

Stantec Consulting
1505 Lapemiere Avenue
Ottawa ON K1Z 7T1
Tel: (613) 725-5563
Fax: (613) 722-2799
Cell: (613) 298-3551
kashyap.desai@stantec.com

Goodkey, Weedmark & Associates Limited
Consulting Engineers

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

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