



Capital Communiqué



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

<http://www.ashrae.ottawa.on.ca> **OTTAWA VALLEY CHAPTER** e-mail: contact@ashrae.ottawa.on.ca

EVENING PROGRAM

DATE: Tuesday **January 19, 2010**. Social: 17:30 Dinner: 18:30 Program: 20:00
Travelodge Ottawa Hotel & Conference Centre, 1376 Carling Avenue, Ottawa, Ont., 613-722-7600

THEME: MEMBERSHIP

PROGRAM: **Olympic Venue Refrigeration**

SPEAKER: **David Fauser and Paul Best**

OVERVIEW: Many of the venues at the upcoming Vancouver Winter Olympics require refrigeration to maintain and hold desired temperatures. CIMCO Refrigeration played an integral role in the design and installation of the systems for the upcoming games. In this presentation, David Fauser (Eastern Ontario District Manager), and Paul Best (District Engineer from the CIMCO Ottawa office) will take you through the venues bringing you up to speed on the installed systems, touching on the equipment selection, installation challenges, energy efficient use of waste heat, and other relevant information pertaining to the venues.

BIO: David Fauser is the Eastern Ontario District Manager for CIMCO refrigeration. He has been with CIMCO since 2001. David holds a Bachelor of Commerce degree from Royal Roads University.

Paul Best P.Eng is the CIMCO Ottawa district engineer. He has over 15 years of industrial ammonia experience. Paul is a graduate from the University of Waterloo.

Menu

Assorted Rolls and Butter - Assorted Mixed Greens
Maple and Teriyaki Glazed Salmon served with Steamed Rice and Seasonal Vegetables
Assorted Squares with Coffee & Tea

Chapter Members: \$35.00 Guests: \$50.00

2009 - 2010

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President & CRC Delegate



President's Message

By Jason Alexander, P.Eng.
2009-2010 OVC President

The festive season and the New Year bring with it a sense of rejuvenation. It seems to be the time of year that we promise to do that one thing that will improve ourselves. What was your New Years Eve resolution?

ASHRAE as a society has continually tried to improve and reach out to new areas of research. They have expanded the organization creating new chapters globally, set up new technical committees to advance different areas of research or engineering, and strived to improve the quality of HVAC engineering in today's dynamic world. As we reflect on what has passed in 2009 we saw the election of the first black President of the United States of America. We all suffered through the major meltdowns of the world's financial systems and witnessed the outbreak of the H1N1 virus.

For the many of us, it was a very real reminder of infectious disease and contaminant control. Many of the chapter members, and even more so globally, have been involved in the engineering and construction of the types of institutions used during the H1N1 outbreak. ASHRAE has for a long time published the standards for the design of these facilities and backed by extensive research guided us on the design of these facilities and how to better engineer for whatever the future may bring.

Very soon the winter Olympics will be held in Vancouver, British Columbia. I am getting very excited for not just the sporting competition but the sense of companionship, perseverance and global union that is often displayed at the events. Characteristics I hope will be shown more on the newscasts in 2010. As a reminder of this upcoming event, the presentation for January's meeting will cover some of the venues for the winter Olympics and the refrigeration systems that maintain them.

What will 2010 hold? I hope the best for all of you in 2010, in your family life, professional career and also for yourself. I hope you had a happy holiday period and a great start to the New Year. And in case you were wondering, no, we will not be serving turkey at the January meeting, and we would be happy to see you all there.

Sincerely,
Jason Alexander, P.Eng.
2009-2010 OVC President

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Secretary



What you missed at our November 2009 meeting

By Donald Weeks
2009-2010 OVC Secretary

The night's theme was Student Activities.

The month's table tops were: Nortec; Direct Energy; Walmar

President Jason Alexander opened the meeting and welcomed members, guests and students. Matt Edmonds (Student Chair) welcomed the Algonquin College student design team.

The evening's technical presenter was Dr. Stephen Harrison, P.Eng, Director of the Solar Calorimetry Laboratory at Queen's University in Kingston, ON. Mr. Harrison's topic was 'The Renewable Energy Renaissance: Recent Developments and Forgotten Lessons in Solar Thermal Technology for Heating and Cooling Applications'.

The talk focused on modern thermal technology and some of the most promising applications and potential pitfalls with the technology. Dr. Harrison noted the use of solar thermal systems for space heating and cooling in residential and commercial applications. Also, Dr. Harrison discussed the recent efforts to increase system performance, reliability, durability and the ease of installation.

Professor Harrison discussed the various renewable energy sources and the advantages and disadvantages of each source (wind; solar; biomass; etc.). Also he discussed policy changes with regards to renewable energy. Professor Harrison focused on solar energy and the latest developments in this aspect of renewable energy.



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Committee
Chair



Membership

By Philippe Lemieux
2009-2010 OVC Membership Promotion Chair

The Ottawa Valley ASHRAE chapter would like wish all of it members a happy new year. We would also like to welcome are newest members, Mr. Simon Claude Gravel, Mr. Paulo Escudero, Mr. Dave Lucas and Mr. John Daniel Godin. We hope to see you at our next meeting.

Thanks
Philippe Lemieux
Membership Chair.

President &
CRC Delegate



New ASHRAE Building Labeling Program

By Jason Alexander, P.Eng.
2009-2010 OVC President

Pilot Building Energy Labeling Program Launched by ASHRAE with Leading Owners, Designers

ATLANTA – A new program to inform building owners and operators, tenants and prospective buyers on the energy use of buildings, similar to a nutrition label on food or miles per gallon ratings on cars, was launched today to encourage the building industry to find ways to cut energy use and costs.

The Building Energy Quotient program, which will be known as Building EQ, will include both As Designed (asset) and In Operation (as operated) ratings for all building types, except residential. It also will provide a detailed certificate with data on actual energy use, energy demand profiles, indoor air quality and other information that will enable building owners to evaluate and reduce their building’s energy use. The program is administered by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

“Information on a building’s energy use is the critical first step in making the necessary changes and choices to reduce energy use and costs,” Gordon Holness, ASHRAE president, said. “The Building EQ program provides an easily understood

(cont...)

scale to convey a building's energy use in comparison to similar buildings, occupancy types and climate zone, while also providing building owners with building-specific information that can be used to improve building energy performance."

Holness noted that building energy use disclosure is already mandatory in California; Washington, D.C.; Austin, Texas; Washington State; the European Union; and Australia.

Those participating in the pilot program are leading building owners and designers, real estate developers and government agencies, including:

- The Durst Organization, the owner, manager and builder of 9 million square feet of mid-town Manhattan office and residential properties, will include 4 Times Square, 1155 Avenue of the Americas and One Bryant Park in New York City in the pilot
- The U.S. General Services Administration, the primary agency responsible for the acquisition and management of federal buildings owns or leases 8,600 properties and maintains an inventory of more than 354 million square feet of workspace for 1.1 million federal employees
- Wright Runstad and Co. develops, acquires, manages and leases high-quality commercial office buildings located primarily in the Pacific Northwest, headquartered in Seattle, Wash.
- Ashforth Pacific, Portland, Ore., a diversified real estate firm that owns, develops and invests in assets and provides third-party services, including assets and property management, general contracting and construction management
- BNIM Architects, a leader of a new generation of design firms headquartered in Kansas City, Mo., will include The Omega Center for Sustainable Living in Rhinebeck, N.Y.; the Internal Revenue Service, Kansas City Campus, Kansas City, Mo.; and the Fayed S. Sarofin Research Building, home of the Brown Foundation Institute of Molecular Medicine for the Prevention of Human Diseases, the University of Texas Health Science Center, Houston, in the pilot
- Hines, a privately owned real estate firm involved in real estate investment, development and property management worldwide headquartered in London and Houston, Texas, will place high-profile properties from five major U.S. market in the pilot
- The Detroit-Wayne Joint Building Authority will include the Coleman A. Young Municipal Center, which is home of six branches of city and county government including Circuit and Probate Courts, City and County Clerks and the Executive and Legislative branches of the City of Detroit, in the pilot
- The Michigan Department of Management and Budget, which acquires and manages properties for many of the state's agencies
- Russell Development Co., which has produced significant commercial buildings in downtown Portland, Ore., will include 200 Market Building in the pilot.

"The Durst Organization is proud to assist ASHRAE with this pilot program," Don Winston, P.E., vice president technical services, The Durst Organization, said. "To continue advancing the state-of-the-art of high-performing buildings, it is essential that the gap between predicted and actual performance be identified and understood. By including both As Designed and In Operation ratings, this system will help us better understand what works and what doesn't, and allow us to make better informed design choices in future projects."

Through the pilot program, the Building EQ program will allow fine-tuning and final development of the program. In parallel with this effort, ASHRAE has developed a certification program for building energy modelers. Following completion of the pilot program in mid-June, the program is expected to be fully functional by the end of 2010.

(cont...)

Under the program, new buildings will be eligible to receive an As Designed, or asset, rating, which provides an assessment of the building based on the components specified in the design and is based on the results of building energy modeling and simulation. An In Operation rating will be available once the building has at least one year of data on the actual energy use and is based on a combination of the structure of the building and how it is operated. Existing buildings would be eligible to receive both an As Designed and In Operation rating.

“With procedures for both an As Designed and In Operation rating, building owners can make side-by-side comparisons that could further reconcile differences between designed and measured energy use on an ongoing basis,” Holness said.

For more information, visit www.buildingEQ.com.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.



Student Sponsors

By Stephen Lynch
2009-2010 OVC Treasurer

The student sponsors for the ASHRAE Ottawa Valley Chapter November 2009 meeting are as follows:

Student Meal Sponsors:

Jim Mills - Stantec
Mike Hurley - Walter Meier
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Scott Black - Hydroplumb
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Steve Moons - Total HVAC

Your student sponsorship is much appreciated by the ASHRAE Ottawa Valley Chapter. Your contribution to help compensate student meals allows the chapter to provide meals to the students at no cost to them. A lot of the students that attend these meetings will one day become ASHRAE members and your contributions help to grow our membership which is the heart of the Ottawa Valley Chapter.

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The Olympic Torch

By Patrick Albert
2009-2010 Governor

ASHRAE OVC member Mark Gall has represented our country as he carried the 3.5lb Olympic torch along Alexandre Tache Blvd at 10am Saturday December 12th, 2009. Now when Mark will be watching the 2010 Olympic Ceremonies on February 12, 2010, he can say “I had a part in getting the torch across the country”. When asked how it felt, he replied “It just felt quite surreal!” On behalf of the ASHRAE OVC, I would like to congratulate you on a job well done. For all the LEED buffs, I am sure that it was a high efficient condensing torch he was carrying.



You might notice here that Mark (the one in white) is using the diamond lane to avoid traffic! We won't tell.



Look at that, not even out of breath! What you don't see is that he is standing on a gas fired scooter and he is holding onto the exhaust!

Mark was selected by the Royal Bank on an inspiring essay on how he could “Make a better Canada” and how he would encourage his friends and family to live an active life style. He also mentioned that the Royal Bank, Coke and Vancouver 2010 team were great to work with. Now the ASHRAE OVC can say they have a member that was a part of the 2010 Olympics. Mark will be signing autographs at the next ASHRAE meeting.

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Governor



Table Top Display

By Frank Bann
2009-2010 OVC Governor

BRECK-MAR

Breck-Mar Sales & Service will be having a table top to display various products that we represent. We would like to invite everyone to stop by our table to see what we have to offer and ask any questions you may have. Here are some of the items that they will be displaying:

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- Danfoss VFD's
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ASHRAE Jobs is the Society's Online Employment Resource

By Georges Maamari
2009-2010 OVC Committee Chair

With an exceptionally difficult recruitment market, the ASHRAE Jobs Career Center has been averaging 55 active job postings per month and just over 5,000 monthly job seeking visitors. Recruiters are experiencing, on average, 12 online applications per job posting and have access to just over 1200 resumes that have posted its launch on June 15.

ASHRAE Jobs is not only about the hire. It is the path to a hire. By visiting www.ashraejobs.com, you can search for certain skill sets and demographics that you are "always looking for". It is the place to capture high performers you can use to replace underperformers. Is this the place to see if your competitors people are out searching and interested in you. It is also the place to capture candidates for your Q1 hires because we are only 45 days away.

ASHRAE Jobs understands you do not want to be sold to. But you still have opportunities and problems, and may need a professional to discuss those with. That is what you can expect from ASHRAE Jobs: a no-strings-attached conversation where a representative listens and then makes recommendations whether they include ASHRAE Jobs or not. For more information, visit www.ashraejobs.com, call 888-482-2562 or e-mail John VonHarz at jvonharz@ashraejobs.com. An ASHRAE Jobs representative is available during business hours to discuss your firm's needs and make recommendations on next steps.

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News Update

By Georges Maamari
OVC Governor

Technical News:

Program to provide information aimed at reducing building energy use **Pilot Building Energy Labeling Program Launched by ASHRAE with Leading Owners, Designers**

December 8th 2009

ATLANTA – A new program to inform building owners and operators, tenants and prospective buyers on the energy use of buildings, similar to a nutrition label on food or miles per gallon ratings on cars, was launched today to encourage the building industry to find ways to cut energy use and costs.

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- Ashforth Pacific, Portland, Ore., a diversified real estate firm that owns, develops and invests in assets and provides third-party services, including assets and property management, general contracting and construction management
- BNIM Architects, a leader of a new generation of design firms headquartered in Kansas City, Mo., will include The Omega Center for Sustainable Living in Rhinebeck, N.Y.; the Internal Revenue Service, Kansas City Campus, Kansas City, Mo.; and the Fayez S. Sarofin Research Building, home of the Brown Foundation Institute of Molecular Medicine for the Prevention of Human Diseases, the University of Texas Health Science Center, Houston, in the pilot
- Hines, a privately owned real estate firm involved in real estate investment, development and property management worldwide headquartered in London and Houston, Texas, will place high-profile properties from five major U.S. market in the pilot (cont...)

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"With procedures for both an *As Designed* and *In Operation* rating, building owners can make side-by-side comparisons that could further reconcile differences between designed and measured energy use on an ongoing basis," Holness said. For more information, visit www.buildingEQ.com.

Sustainability News:

ASHRAE Joins Former President Clinton in Climate Initiative

ATLANTA – The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) will join with former President Bill Clinton in an initiative to reduce carbon emissions and increase efficiency in the world's largest cities.

The Clinton Climate Initiative (CCI) is a Clinton Foundation program dedicated to making a difference in the fight against climate change in practical and measurable ways.

The initiative was launched Tuesday at a news conference in Los Angeles, where Clinton was joined by London Mayor Ken Livingstone, Los Angeles Mayor Antonio Villaraigosa and San Francisco Mayor Gavin Newsom. British Prime Minister Tony Blair also attended to show support for the initiative. ASHRAE President Terry Townsend, P.E., also was present.

"ASHRAE has a long history of engineering for sustainability by applying its diverse technology to reduce the consumption of energy in the built environment," Townsend said.

"We are pleased to partner with the Clinton Foundation and others to accelerate the adoption of energy-saving technologies by city planners."

For more than 30 years, ASHRAE energy standards have set the standard of care for the efficient use of energy resources in buildings. In particular, since being developed in response to the energy crisis in the 1970s, ASHRAE's Standard 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, has influenced building designs worldwide. It has become the basis for building codes and a standard for building design and construction recognized throughout the world.

"Recognizing the impact of buildings on global energy use and greenhouse gas emissions, ASHRAE will work with city planners to support development of codes, standards, energy use metrics, and other programs that lower environmental impacts," according to an agreement signed by ASHRAE and the Foundation. "ASHRAE's assistance will facilitate the

(cont...)

transfer of existing tools and technology, and support solutions to common energy and greenhouse gas emission challenges facing large city group leaders.”

Urban areas are responsible for more than 75 percent of all greenhouse gas emissions in the world. Therefore, reducing energy use and greenhouse gas emissions in cities is fundamental to any effort to slow the pace of global warming.

“It no longer makes sense for us to debate whether or not the earth is warming at an alarming rate, and it doesn’t make sense for us to sit back and wait for others to act,” said President Clinton at the announcement event. “The fate of the planet that our children and grandchildren will inherit is in our hands, and it is our responsibility to do something about this crisis. The partnership between my Foundation and the Large Cities Climate Leadership Group will take practical and, most importantly, measurable steps toward helping to slow down global warming, and by taking this approach I think we can make a big difference.”

The Clinton Climate Initiative will assist the large cities in the group in reducing greenhouse gas emissions and increasing energy efficiency. To enable partner cities to do so, CCI will:

- Create a purchasing consortium that will pool the purchasing power of the cities to lower the prices of energy-saving products and accelerate the development and deployment of new energy-saving and greenhouse-gas-reducing technologies and products.
- Mobilize the best experts in the world, including ASHRAE, to provide technical assistance to cities to develop and implement plans that will result in greater energy efficiency and lower greenhouse gas emissions.
- Create and deploy common measurement tools and internet-based communications systems that will allow cities to establish a baseline on their greenhouse gas emissions, measure the effectiveness of the program in reducing these emissions and to share what works and does not work with each other.

There are a number of practical steps cities can take to increase efficiency and reduce emissions, including:

- Building codes and practices that make use of more effective insulation and more energy efficient windows, heating and ventilation systems, and lighting
- Localized, cleaner electric generation systems
- More intelligent design of electric grids both across the city and within office and municipal buildings

The CCI-Large Cities partnership is initially targeting 22 of the largest cities in the world - Berlin, Buenos Aires, Cairo, Caracas, Chicago, Delhi, Dhaka, Istanbul, Johannesburg, London, Los Angeles, Madrid, Melbourne, Mexico City, New York, Paris, Philadelphia, Rome, Sao Paulo, Seoul, Toronto, and Warsaw.

Many of these cities will be visited by ASHRAE leaders as part of initiative later this calendar year. The partnership anticipates that many more cities will join over the next four to six months.

Other partners in the Clinton Climate Initiative include the U.S. Green Building Council, the Alliance to Save Energy, and the International Council for Local Environmental Initiatives. ASHRAE is also partnering with the U.S. Green Building Council and the Illuminating Engineering Society of North America to develop the standard 189P, *Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*.

ASHRAE, founded in 1894, is an international organization of 55,000 persons. Its mission is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration (HVAC&R) to serve humanity and promote a sustainable world

Governor



2010 ASHRAE Curling Bonspiel

By Patrick Albert
2009-2010 Governor

Our annual curling bonspiel will be held again at The Nepean Sportsplex on Friday March 5th 2010. Curling will commence at 1:00pm and will be followed by Dinner in the Richmond Room at 6:30pm.

Cost: \$360.00 (per team of 4)
Format: 4 Games at 4 ends each.

Please contact Chris Healey at 613-225-9774 or e-mail Chris at chris@walmart.net or Christen Kemp at 613-225-9774 or e-mail her at christine@walmart.net to book a team.

Committee
Chair



Business Card Ads

by Rod Lancefield

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.

Cost is \$225.00 for the year; contact Rod Lancefield, rod@htseng.com, (613) 728-7400.



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