

American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.
British Columbia Chapter Region XI

President's Message

It has been an exciting start to the ASHRAE BC Chapter year for 2008-2009, with two outstanding and well attended meetings. In September, we enjoyed an excellent tour and technical presentation at the BCIT Centre for Advancement of Green Roof Technology. Our thanks to Maureen Connolly from BCIT for hosting us. In October, we held a record breaking meeting, with 135 people attending the dinner and presentation on Variable Refrigerant Flow technology by ASHRAE Distinguished Lecturer, Julian de Bullet. It was standing room only at the Trattoria at the Italian Cultural Centre on that evening!

At the October meeting, I took advantage of a captive audience containing many prospective new ASHRAE members to speak about the benefits of ASHRAE membership at both the Society and Chapter levels. Society Membership provides us with benefits such as the ASHRAE Journal, an Annual ASHRAE Handbook, Discounts on publications, and a series of e-newsletters. Additional Chapter Membership provides a lower monthly meeting cost, our quarterly newsletter, a copy of our membership roster (which should be coming out before Christmas), and new look name tags for our chapter members (which should be available for our November Meeting).

We have recently reviewed our membership database, and have seen that we have over 100 people who are currently Society Members but not Chapter Members. If you or your colleagues at work are soon to be renewing your existing membership, or are becoming a new ASHRAE member, please make sure to include the chapter membership component to your renewal or new application. The incremental annual cost for Chapter membership is \$45.

In looking at our membership database, we have also seen that our chapter has many Associate members who are likely able to advance to becoming full ASHRAE members. There is no cost to do this, but you need to complete a form to send to ASHRAE headquarters in Atlanta. An article which explains the process for applying for membership advancement is included in this issue of the Totem.

Looking ahead, we have a first class offering of technical programs for the rest of the ASHRAE Year. On November 12th, our topic will be "The Road to Carbon Neutrality". The New Year will bring a presentation on Filters and MERV Ratings on January 14th (note that this will be a lunch time meeting at UBC Robson Square); another highlight will be a tour of the Olympic Speed Skating Oval on February 11th; Ray Cole from the UBC School of Architecture will speak about Net Zero Energy Buildings on March 11th; we will highlight the BCIT Student Projects on April 13th (you will have a great chance to meet prospective new employees during the BCIT Student project night); and we will finish our technical program on May 13th with the topic of water source heat pumps.

Then to finish the year, don't forget the ever popular, and always sold out, ASHRAE Golf Tournament, which will again be at Westwood Plateau On May 27th. Our Golf Tournament Chair, Norm Grusnick has assured me that the weather will be much improved next May, unlike your Chapter President's golf swing!!!!

Chris Collett



October 2008

November Meeting Notice

Location:

Dinner Meeting—Italian Cultural Centre, Vancouver

Guest Speaker:

Jennifer Sanguinetti

Topic

The Road to Carbon Neutrality

Date

November 12, 2008

Time:

Check in & Social hour

5:30—6:30 PM

Dinner 6:30 PM

Cost

BC Chapter Member \$40

Society Member \$45

Non-Member (Guests) \$45

Students \$10

Reservations are a must

Email:

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Up Coming Events

November 12, 2008 at the Italian Cultural Centre

The Road to Carbon Neutrality Jennifer Sanguinetti, Stantec

Sign in and Social hour will be from 5:30—6:30 pm

Dinner at 6:30 pm

The November meeting will be our last one for 2008

The next meeting will be on January 14th, 2009

2008—2009 ASHRAE BC Chapter, Meetings Schedule

September 10, 2008	Green Roof—Membership Night (Speaker: Maureen Connolly, BCIT) Tour of the BCIT Centre after Dinner @ Italian Cultural Centre
October 8, 2008	Variable Refrigerant Flow—Refrigeration Night (Speaker: Julian de Bullett, McQuay International ASHRAE Distinguished Lecturer) Italian Cultural Centre
November 12, 2008	The Road to Carbon Neutrality – Membership Promotion Night Italian Cultural Centre (Speaker: Jennifer Sanguinetti from Stantec)
January 14, 2009	Air Filtration in HVAC & MERV Ratings—Past Presidents Lunch Vancouver Robson Square—Lunch Meeting (Speaker: Graham Crompton)
February 11, 2009	Tour of the Olympic Speed Skating Oval—Refrigeration Night (Speaker: To be Announced) Marriott Airport Hotel, Richmond
March 11, 2009	Net Zero Energy Buildings – Membership Night Italian Cultural Centre (Speaker: Ray Cole)
April 15, 2009	BCIT Student Presentations & Job-Fair—Student Night Moderator: Joe Cheung, BCIT Italian Cultural Centre
May 22, 2009	Water Source Heat Pump Technology—Chapter Awards Night Swearing in of New Chapter Board of Governors Italian Cultural Centre (Speaker: To be Announced)
May 27, 2009	Golf Tournament—Westwood Plateau

Note: Meetings dates and Speakers sometimes need to be changed. Please read the meeting



OUR VISIT TO THE BCIT CENTRE FOR THE ADVANCEMENT OF GREEN ROOF TECHNOLOGY IN SEPTEMBER

September's meeting saw a strong turnout with 57 members and guests in attendance. After a scheduled early dinner everyone departed for the BCIT Research Facility at 555 Great Northern Way where the presentation by Maureen Connolly took place. The presentation took approximately 30 minutes and covered the differences between extensive and intensive roofing. The benefits in terms of energy conservation were expected but the added benefits of runoff management as well as protection of the roofing membrane were explained.

After the presentation, the attendees were split into two groups. The split groups went out on a beautiful late summer night (lucky for us) to view the Research Centre's roof itself as well as a series of experiment pods. These pods were sponsored by different roofing suppliers to test various construction techniques.

Most attendees were surprised and pleased to see the practical approach to this research as well as the extensive benefits from even the minimum investment in this technology.

Les Pereira



CAN ASSOCIATE MEMBERS ADVANCE TO FULL ASHRAE MEMBERSHIP?

The Chapter Board of Governors was recently reviewing our membership database, and we saw that our chapter membership includes many experienced professionals within the HVAC industry who are Associate Members of ASHRAE, rather than full ASHRAE members.

We would like to encourage our chapter members to review their current membership status, and consider advancement to becoming a Full ASHRAE member. The process for advancement consists of the completion of an Application Form, which can be found on the ASHRAE Society website at http://www.ashrae.org/docLib/20080917_108.pdf There is no cost to apply for Full Membership status.

The requirements for advancement are that a Member have the equivalent of 12 Society-approved years of experience composed of an approved combination of completed education beyond high school, work experience and professional engineering or related registration or license issued by a legally authorized body.

As an incentive, applicants approved for advancement receive a \$20 coupon that can be used for the purchase of ASHRAE logo merchandise, annual dues or publications. In addition, the names of members who advance are listed in ASHRAE Insights and on the ASHRAE Society website.



Report from the Research Promotion Chair

It is hard to believe that it is the end of summer and time to start the new ASHRAE year. 2007/08 was a very successful year for the British Columbia Chapter in regards to our Research campaign. The chapter raised a new high of \$21,162. This helped the ASHRAE effort to raise for the first time ever over two million dollars. This would not have been possible if it were not for the generous donations made by all the chapter members and their companies. The following is a list of all the donors from last year.

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|---|---|--|
| <i>B.C. Hydro</i> | <i>B.C. ASHRAE Chapter</i> | <i>Refrigerative Supply</i> |
| <i>Haakon Industries</i> | <i>Delta Controls</i> | <i>Tekmar Controls</i> |
| <i>Terasen Gas</i> | <i>IMEC Mechanical</i> | <i>Stantec Consulting</i> |
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| <i>J.M. Bean & Company Ltd.</i> | <i>Equipco Ltd.</i> | <i>Strong Refrigeration Consulting</i> |
| <i>Prism Engineering</i> | <i>Blue Ridge Engineering</i> | <i>Cimco Refrigeration</i> |
| <i>Yoneda & Associates Ltd.</i> | <i>Sterling Cooper & Associates</i> | <i>Mr. Gerald Hughes</i> |
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| <i>Mr. Roberto Costa</i> | <i>Mr. Wayne Borrowman</i> | <i>Mr. Ed Chessor</i> |
| <i>Mr. Chris Collett</i> | <i>Mr. Les Pereira</i> | <i>Mr. Brian O'Donnell</i> |
| <i>Mr. John Clancy</i> | | |

I wish to congratulate Ed Chessor on a tremendous job last year. On behalf of Ed, I would like to thank the other committee members Chris Collett, Norm Grusnick and Rob Flipse for all their hard work.

Wayne Borrowman, BC Chapter Research Promotion Chair

**AN ASHRAE STUDENT CHAPTER
HAS BEEN RE-ESTABLISHED AT
THE B.C. INSTITUTE OF TECHNOLOGY (BCIT)**

Gerry Espinola is the new Student Chapter President

Joseph Cheung is the Student Advisor



A RECORD BREAKING MEETING IN OCTOBER

Our October Meeting was one for the record books, with 135 ASHRAE members and Guests in attendance to hear ASHRAE Distinguished Lecturer **Julian de Bullet** from McQuay International in Washington, D.C. speak about Variable Refrigerant Flow (VRF) Technology.

Julian discussed the concept of outdoor multiple inverter driven compressors serving numerous indoor units while varying the refrigerant flow to meet individual zone requirements. The concept has been successfully applied for more than 20 years in Europe and Asia and is rapidly gaining acceptance in North America. A typical VRF system uses ductless indoor units, but new applications can apply ducted indoor fan coils and even water cooled applications. Our speaker reported that energy savings can be substantial when compared to more conventional systems.

In addition to the VRF presentation, Julian also gave a pre-dinner workshop on Energy Analysis, which was attended by 65 people.

Thanks to Charlotte Ross, our Chapter CTTC Chair for her work in promoting the meeting, and to Olympic International for their generous contribution by bringing many guests to the event.



ASHRAE Distinguished Lecturer Julian de Bullet, Chapter CTTC Chair Charlotte Ross, and Past Chapter & Society President Dick Perry at the October meeting



ASHRAE 90.1 WORKSHOPS AT THE BC HYDRO POWER SMART FORUM ON NOVEMBER 17TH TO 19TH, 2008

BC Hydro is hosting a **Power Smart Forum** from **November 17th to 19th, 2008** at the Westin Bayshore Hotel, Vancouver. The Annual Forum gathers together BC-based organizations that wish to improve or learn more about energy efficiency and conservation. The November 17th schedule includes free information sessions running throughout the day, and ends with a Trade Show and Reception. More than 30 trade show exhibitors will showcase the latest in energy-saving technology and share their knowledge while the reception provides an opportunity for networking with peers and industry. The ASHRAE BC Chapter will be exhibiting at the Trade Show.

A series of Commercial/Institutional workshops, including a two-day ASHRAE 90.1 workshop -- which, along with other workshops and info sessions, are eligible for ASHRAE professional accreditation -- are offered on November 18th and 19th.

The speakers for the ASHRAE 90.1 Workshops are **Sachin Anand** from Design Building Engineering in Chicago, and **Curt Hepting** from Enersys Analytics Inc. The day one workshop is titled "**Meeting the Newest Standards 90.1-2004 and 2007**". The day two workshop is titled "**Exceeding the Newest Standards**".

The cost for the two day ASHRAE 90.1 workshops is \$200.

The Power Smart Forum provides exceptional value to ASHRAE members and can put them on the path to becoming leaders in energy management. In fact, many past Forum attendees were Power Smart Excellence Award recipients earlier this year.

For more information, visit the Forum website at www.bchydro.com/forum

You can register for the Forum and the Workshops on line up until November 10th.

LINK
POWER SMART FORUM 2008

BC Hydro 
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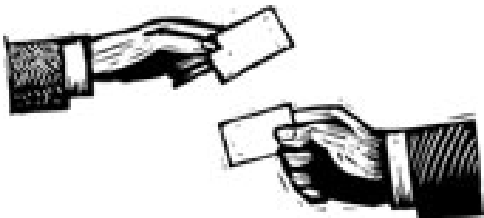
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Do you have something to say or have you read something that others in our chapter may find very interesting? Let the BC Chapter's Totem be your voice.

email Newsletter Editor at vulcanagencies@telus.net

You may see your article in the next Totem.



The ASHRAE BC Chapter will post Employment Opportunities Advertisements in the Totem as a service to our Chapter members at a cost of \$100 per issue. The advertisements should be a quarter page maximum and can be e-mailed to our 2008-2009 Chapter President chris@collett.net and our Newsletter Editor vulcanagencies@telus.net



PHOTOS FROM THE OCTOBER MEETING



Several BOG members looking bemused wondering if they are going to get dinner!

The record breaking numbers at the meeting meant space was at a premium!



The Registration Desk and the ASHRAE Research Draw Ticket sellers have never been so busy!



A History of Success for ASHRAE BC in the Annual Technology Awards

Each year, the ASHRAE Technology awards recognize outstanding achievements by ASHRAE members who have successfully applied innovative building design in the areas of occupant comfort, indoor air quality and energy conservation.

ASHRAE's Chapter Technology Transfer Committee (CTTC) coordinates the awards competition, which includes judging at the Chapter, Regional and Society levels

Each year, awards are presented in seven categories: Commercial Buildings (New and Existing); Institutional Buildings (New and Existing); Health Care Facilities (New and Existing); Industrial Facilities or Processes (New and Existing); Public Assembly (New and Existing); Residential (New and Existing); Alternative or Renewable Energy Use.

To enter the Chapter and Regional Competitions, a short form submission must be prepared and sent via our chapter CTTC chair to the Regional Chairman. Winners in each ASHRAE region may then choose to prepare an additional submission for the Society competition. Entry forms can be downloaded from the Society website at the following URL:

<http://www.ashrae.org/template/AssetDetail/assetID/25449>

Each year since 2003, B.C. Chapter members have been highly successful in the ASHRAE Region XI and Chapter competitions.

In 2003, **Omicron** won the Region XI and B.C. Chapter Awards for the City of Vancouver Works Yard Project; and **J.M. Bean & Co. Ltd.** also won Region XI and B.C. Chapter Awards for the Heritage Mountain Secondary School project in Port Moody.

In 2004, **Stantec** (known then as **Keen Engineering**) won at both the regional and chapter level for the City of White Rock Operations Centre.

In 2005, **MCW Consultants** won Region XI and B.C. Chapter Awards for the UBC Life Sciences Building, and **Jade West Engineering** also won Region XI and B.C. Chapter Awards for their submission on a Chiller Upgrade at the TD Tower in Vancouver. **Cobalt Engineering** won a BC Chapter award for the UBC Technology Enterprise Facility III

In 2006, **Prism Engineering Ltd.** won Region XI and B.C. Chapter Awards for the HVAC modernization project at 650 West Georgia Street. **Earth Tech** also won a B.C. Chapter award for the Irving K. Barber Centre at UBC.

In 2007, **Omicron** again won both the Region XI and B.C. Chapter Awards for the Fred Kaiser Building at UBC. In addition, B.C. Chapter awards were won by **Stantec** for the Gulf Island Operations Centre, and by **Earth Tech** for the Surrey City Hall Renovation and Expansion project.

In 2008, **MCW Consultants** and **Earth Tech** both won Region XI and B.C. Chapter Awards. MCW Consultants won for the BCIT Aerospace Centre in Richmond, and Earth Tech won for the Kwantlen University Trades and Technology Centre in Surrey.

Submissions for the 2009 ASHRAE Technology Awards should be sent to Charlotte Ross (Chair of the BC Chapter CTTC Committee) by **April 17th, 2009**. For further information or for copies of the entry forms, please contact Charlotte Ross at charlotte.ross@olympicinternational.com



Kent Petersen (ASHRAE Society President 2007-2008) presents Milenko Vujicic from Earth Tech with a Regional Technology Award.



ASHRAE BC Chapter 2008-2009 Officers and Committee Directory

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Membership matters
TOP REASONS PEOPLE JOIN ASHRAE:
• To receive technical / educational publications
• To support the HVAC&R professions
• To receive the journal
• To be knowledgeable in the area of Technical Standards
• Networking Opportunities
• Increase Professional Skills

Please help us keep you updated by keeping us updated
If you have not been receiving your email meeting notices or you have changed information, please email Lisa Willis at vulcanagencies@telus.net or call 604-341-4020
Please include the following:
Name: _____,
Company Name: _____
Address: _____
Phone: _____,
Fax: _____,
Email: _____ Membership _____