



American Society of Heating, Refrigeration and Air Conditioning Engineers, Inc.

British Columbia Chapter Region XI

President's Message

Last fall saw the start of another busy year for our local ASHRAE chapter. It kicked off in September with an excellent talk by Duncan Chalmers from the University of South Wales on Mine ventilation. October was a dual tour of both Viaduct Sheet Metal and the newly opened Kwantlen Trades and Technology Centre in Cloverdale. November saw Ken Loudermilk of Trox USA speak on Chilled beams as well as a workshop on under floor air distribution. And just a few weeks ago we were fortunate to hear Andrew Pape-Salmon from the BC Ministry of Energy, Mines, and Petroleum Resources talk about the proposal to have the province adopt ASHRAE standard 90.1. We have noticed that attendance for the meetings is up, so we hope that this means you have found these topics and speakers relevant to you.



Well 2008 is here and we are truly in exciting times! Certainly in Vancouver and Whistler with Vancouver 2010 Winter Games now just two years away we are seeing many exciting projects take shape. Some are games related, but just as significant is that there are many, many other projects happening right now too. Looking beyond Vancouver's economy though we are seeing many troubling issues. On the forefront is the concern about global warming, but it's not just that, we have limited natural energy reserves; many of the existing ones are well on the way to being depleted, and finds of new reserves are on the decline. As well the world population continues to rise, and other developing nations are moving towards the high-energy consumption habit of the western world. The bottom line is that in spite of many of us trying to be green by doing things like turning the lights off and recycling, that will not be nearly enough and we simply cannot continue the way we are. Things are going to have to change, and things will change quite dramatically the coming years whether we want it or not.

So what can we as individual ASHRAE members do? Well when people work together we can make a difference and help steer the future for the better. And within the HVAC&R industry ASHRAE is the key venue to make a difference. You too can help, by continuing to be a member of ASHRAE, coming to the meetings, networking with others to share what you are doing and finding out what others are doing in the industry. As well you can also encourage others to become members or to help support ASHRAE research fund-raising activities. And perhaps most important... you can volunteer within ASHRAE. ASHRAE at both the chapter and society level operates on the generosity of volunteer time and it continues to need both technical and organizational expertise. So if you would like to make a difference feel free to contact myself or another volunteer. And no matter how small the assistance you can offer, ASHRAE is interested in your help as many hands make for light work.

As for upcoming programs keep looking in your inbox for details. This month we have organized a joint meeting with ASPE (American Society of Plumbing Engineers) on mixing valves in hot water systems. Then in March we are very fortunate to have this year's ASHRAE society president Kent Peterson arranged for a March 5th lunch meeting. For Refrigeration night in April we have a presentation arranged on the Whistler Sliding Centre where the 2010 bobsled, luge, & skeleton events will be held. And in May for Student night we will have students presenting their projects at our dinner meeting, as well as our annual golf tournament.

Wayne Borrowman P.Eng.,

February Meeting Notice

Location:

Luncheon Meeting at UBC
Robson Square
UBC

Guest Speaker

Paul L. Knight

Topic

Electronic mixing valves

Date

Tuesday, February 12, 2004

Time:

Networking & Check in
11:00—12:00 PM
Lunch Program 12:00 PM

Cost

Chapter Member \$30
Society Member \$35
Students \$10

Reservations are a must

Email: jmiguel@toromont.com
Fax: 604-525-1964
Ph: 604-585-8899

Special points of interest:

- Website www.ashrae.bc.ca



Up Coming Events

March meeting will be another luncheon at UBC Robson Square



March 5, 2008 -

Lunch with ASHRAE Society President Kent Peterson!

Kent will be visiting the BC Chapter at UBC Robson Square to meet the members, answer their questions, and give his presidential speech - "Greater Efficiency Today, Blue Skies Tomorrow - Innovation for a Sustainable Built Environment." ASHRAE Today

This will also be Past Presidents meeting.

Social hour will be from 11:00–12:00 pm and lunch at noon.

Past Events

January Chapter meeting held at the Italian Cultural Centre

Guest Speaker: Andrew Pape-Salmon is the Acting Director of the Alternative Energy Policy Branch, Ministry of Energy, Mines and Petroleum Resources, Government of British Columbia. Andrew is coming to our membership to present the proposed BC Green Building Code.

The proposal is for the province to adopt the ASHRAE 90.1 Standard 2004 for non-Part 9 buildings effective this spring of 2008.



Before the presentation of our January Chapter meeting our President Wayne Borrowman presented a Certification of Appreciation Award to Past President Ed Chessor



ASHRAE BC Chapter, Meeting October 10, 2007

The October meeting was hosted by Viaduct Sheet Metal, at their new plant just east of Cloverdale. Early arrivals took advantage of the opportunity to tour a clean, well lit and well mechanized fabrication shop. Over 70 members and guests enjoyed a buffet dinner in the shop. Regional Chair Traci Hanegan gave a report on recent events at Society, then Patrick Hing of Earthtech gave a brief presentation about the new Kwantlen Trades & Technology Centre campus. The campus replaces one that was established in Newton about 30 years ago and provides training for automotive mechanical repair, automotive parts, bricklaying, cement mason, industrial engines and equipment parts, industrial warehousing, millwright, welding, upholstery, farrier and outdoor power equipment repair. The College wanted an attractive learning environment and a small environmental footprint. The design brief called for LEED certification and maximum value for the dollars invested. The resulting building looks great, and is very energy efficient. No money was wasted on lavish finishes, lots of concrete exposed inside and out. An awareness of environmental issues is visible in many aspects of the project, from the controls that turn off all the lights at the end of a class or the end of the day to the gravel parking lots that reduce rainwater runoff. After the presentation we made the short drive to Kwantlen's new campus at 56th Avenue and 180 St. The tour started in the barn, otherwise known as the Farrier Trade training facility. For those not involved with horses, farriers are the people who install steel shoes on horses' hooves. They learn to heat and shape the steel shoes, trim the hooves and fit the hot shoe to the hoof. Horseshoes are nailed on. At Kwantlen special little gas-fired forges are used to heat the shoes, and the whole process happens in a clean, well lit building. The building is separate from the rest of the college, probably because of the horses.

The Farrier training building. Some smoke and odor emanates from the shoeing process, and of course there are other odors associated with horses, so ventilation is vital. A dedicated local exhaust takes smoke and combustion products from the forges, a separate exhaust system takes the heat, moisture and odors from the horse stalls. Makeup air is provided through louvers near the roof in the end walls. Your scribe didn't see much in the way of heating, but then I have been in lots of barns and seldom see heating systems in them. The main building houses facilities for training in about a dozen occupations, including a large, hi-tech welding facility. Mechanical systems maintain comfort throughout.

Several students were welding in booths during our tour, each booth has both a welding fume extractor arm and general exhaust from the roof. Separate fans serve the two systems. Motorized dampers control flow at each booth to avoid waste of heated air and fan energy.

Special high air flow booths are provided for air-arc gouging. We didn't have time to see all the different facilities, but came away impressed with the quality of the learning environment that has been created. Our compliments to Earthtech, Viaduct, Kwantlen College and all the others who contributed to this excellent result.

Ed Chessor, Past President.

P.S. for more information, check <http://kwantlen.ca>

BC Chapter website: www.ashrae.bc.ca



Student Activities



2007 Scholarship & Awards Ceremony
 November 14, 2007
**The American Society of Heating, Refrigeration
 and Air-Conditioning Engineers, BC Chapter
 Award**
 Presented to: Richard Pendziwol,
 Mechanical Engineering Technology
 Presented by: Godfrey Nash, Student Activities
 Chair, ASHRAE

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 _____



A History of Great 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.

The overall purpose of the ASHRAE Technology Awards program is to:

1. Recognize ASHRAE members who design and/or conceive innovative technological concepts that are proven through actual operating data;
2. Communicate innovative systems designs to other ASHRAE members;
3. Highlight technological achievements of ASHRAE to others, including associated professionals and societies worldwide, as well as building and facility owners.

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.

Submissions for the 2008 ASHRAE Technology Awards should be sent to Chris Collett (Acting Chair of the BC Chapter CTTC Committee) by April 11th, 2008. For further information or for copies of the entry forms, please contact Chris Collett at (604) 535-4215 or email to chris@collett.net

**ASHRAE 2007-2008 CHAPTER MEETING DATES**

Meeting Dates	Program	Speaker/ Representative	Location	Workshop
October 10, 2007	<i>Tour of the Kwantlen Trades & Technology Centre; Dinner Meeting and tour at Viaduct Sheet Metal;</i>	<i>Guest Speaker; Traci Hanegan, ASHRAE Director Regiona XI chair</i>	<i>Cloverdale</i>	<i>N/A</i>
November 7, 2007	<i>Chilled Beams Presentation</i>	<i>Ken Loudermilk</i>	<i>Italian Culture Centre, Vancouver</i>	<i>Underfloor air distribution</i>
January 9, 2008	<i>BC Green Building Code – BC Adopting ASHRAE 90.1 Standard – 2004 for non-Part 9 buildings effective in Spring 2008</i>	<i>Andrew Pape-Salmon, Governmnet of British Columbia</i>	<i>Italian Culture Centre, Vancouver</i>	<i>N/A</i>
February 12, 2008	<i>Electronic mixing valves</i>	<i>Paul L. Knight, Armstrong International Inc. Hot Water Group</i>	<i>Lunch Meeting at UBC Robson Square</i>	<i>N/A</i>
March 5, 2008	<i>ASHRAE Today & Past Presidents Night</i>	<i>ASHRAE President Kent Peterson</i>	<i>Lunch Meeting at UBC Robson Square</i>	<i>N/A</i>
April 16, 2008	<i>2010 Winter Games Bobsled & Luge run facility / Refrigeration Night</i>	<i>Erick Bradley & Wayne Dilk</i>	<i>Olympic Venue</i>	<i>N/A</i>
May 14, 2008	<i>Golf Tournament and Dinner Meeting to follow</i>	<i>TBA</i>	<i>Westwood Plateau</i>	<i>N/A</i>

ASHRAE BC Chapter 2007-2008 Officers and Committee Directory**Chapter Officers and Chapter Board of Governors****President**

Wayne Borrowman
Ph. 604-525-8899
Fax. 604-525-1964

President Elect

Chris Collett
Ph. 604-535-4215
Fax. 604-535-4216

Vice President

Charlie Sabean
Ph. 604-588-1030
Fax. 604-588-1012

Treasurer

Les Pereira
Ph. 604-736-2420
Fax. 604-736-3197

Secretary

Roberto Costa
Ph. 778-328-9888
Fax. 778-328-9889

Past President

Ed Chessor
Ph. 604-822-9707
Fax. 604-822-9588

Governor

Eric Bradley
Ph. 604-951-0717
Fax. 604-951-0734

Governor

Rob Flipse
Ph. 604-683-2321
Fax. 604-2320

Governor

Lisa Willis
Ph. 604-341-4020
Fax. 604-580-4405

Chapter Committee Chairpersons:**Programs**

Charlie Sabean
604-588-1030
604-588-1012

Attendance Chairman

Jamie Miguel
604-525-8899
604-525-1964

CRC Delegate

Chris Collett
604-535-4215
604-535-4216

CRC Alternate

Charlie Sabean
604-588-1030
604-588-1012

Membership Promotion

Joseph Cheung
604-451-6831
604-431-8422

Student Activities

Godfrey Nash
604-240-4700
604-215-0824

Bylaws

Gary Way
604-592-7601
604-576-7086

Chapter Technology Transfer Committee Chair

Chris Collett
604-535-4215
604-535-4216

Chapter Committee Chairpersons:**Refrigeration Chair**

Jamie Miguel
604-525-8899
604-525-1964

Research Promotion

Ed Chessor
604-822-9707
604-822-9588

Golf Tournament

Norm Grusnick
604-530-4151
604-533-9335

Honors & Awards

Rob Flipse
604-683-2321
604-683-2320

Historian

Peter Horwood
604-255-2461
604-255-5145

Newsletter Editor

Lisa Willis
604-341-4020
604-580-4405

Webmaster

Wade Gomer
604-273-0161
604-273-8397

Membership Database / Email List

Lisa Willis
604-572-4405
604-572-4961