



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

President's Message

I would like to start off this message by saying Thank You.

The first few meetings of our new fiscal year have been very successful with high attendance from members and guests. We are very fortunate to have so many members interested in their local BC Chapter activities, and we certainly work hard not to take this for granted.

Those members who have volunteered their time on your Board of Governors and Committee Chairs work very hard to bring together good ideas and topics for these meetings. We have had some interesting challenges this year with one of our Board Members moving back east, and everyone has worked hard to fill this gap and provide a seamless transition in order to continue providing strong content for all the members. I would like to personally thank everyone participating on the Board and Committees for their extra hard work this year.

We have also had a successful Trade Show in Kamloops. Given the successful turnout of the Trade Show, we will likely consider doing another one in the years to come, perhaps in Kelowna. Thanks again to all the exhibitors who attended, and all those who volunteered their time to make this Trade Show a success.

Last year's ASHRAE BC Chapter President, Chris Collett, is continuing to work hard this year as our Research Promotion Chairperson. He has already made great headway on his goals towards raising funds for ASHRAE Research Canada and still finds time to be the editor for the ASHRAE BC Totem. Chris may be (or have already been) in contact with you for your help. If you would like to contact him to make a contribution, his email is chriscollett@telus.net.

Our next meeting will be at lunch time in 2010! On January 13th, 2010, our ASHRAE Society President, Gordon Holness is coming to speak to us. In honour of his visit, this meeting will also host our Past Presidents Day. Please mark your calendars to make time for this meeting and hear our Society President's message, as well as see the familiar faces that have put a lot of time into our local industry.

I would again like to extend an invitation for you to tell us about topics you would like our dinner meetings to discuss. Please feel free to contact anyone on the Board of Governors to tell us about your ideas. We want to provide meetings you can benefit from.

Thanks again!

Charlie Sabeau
BC Chapter President



November 2009

January 2010 Meeting Notice

Location:

Pan Pacific Hotel
300—999 Canada Place
Vancouver

Topic

ASHRAE Society Presidential
Address "Sustaining Our
Future by Rebuilding Our
Past"

Gordon Holness,
ASHRAE President

Date

January 13th, 2010

Time:

Registration 11:30 AM
Lunch 12:00 Noon
Presentation 12:30 PM

Cost

BC Chapter Member \$50
Society Member \$55
Non-Member (Guests) \$55
Students \$10

Reservations are a must

Email:

jhocquard@square-m.net

Fax: 604-737-1521

Ph: 604-737-1522



2009 - 2010 ASHRAE BC Chapter Meetings Schedule



September 16th, 2009	Tour of the New Vancouver Convention Centre
September 30th, 2009	Green Advantage Trade Show and Dinner
October 14th, 2009	Tour of Boiler Retrofit at the Croatian Cultural Centre
November 18th, 2009	Understanding Air to Air Energy Recovery Technologies
January 13th, 2010	Visit by ASHRAE Society President Gordon Holness Past Presidents Lunch Pan Pacific Hotel — Lunch Meeting
February, 2010	<i>No Meeting due to 2010 Winter Olympics</i>
March 10th, 2010	The New LEED for Existing Buildings (EBOM)
April 14th, 2010	TBA
May 12th, 2010	TBA
May 26th, 2010	Golf Tournament — Westwood Plateau

Schedule Subject to Change

Please check the B.C. Chapter website www.ashrae.bc.ca for updates

WE ARE STILL WORKING ON THE TOPICS FOR THE THREE MEETINGS IN THE SPRING OF 2010. IF YOU HAVE IDEAS AND SUGGESTIONS, PLEASE SEND THEM IN AN EMAIL TO THE ASHRAE B.C. CHAPTER AT

totem.bc.chapter@gmail.com



**ASHRAE SOCIETY PRESIDENT
GORDON HOLNESS
VISITS THE B.C. CHAPTER ON JANUARY 13TH**



The ASHRAE B.C. Chapter welcomes Society President, Gordon Holness, on Wednesday, January 13th, 2010. The event will be a Lunch Meeting held at the Pan Pacific Hotel, in Vancouver. Registration begins at 11:30 am, with the Lunch at 12:00 noon, followed by the Presidential Address titled:

“Sustaining Our Future by Rebuilding Our Past”

The January 13th Lunch event is also our Annual Past President’s Meeting, in which we recognize the contributions of our Past Chapter Presidents (and give them a free lunch!) During the meeting, the Major Donors to ASHRAE RESEARCH will be recognized, and presentations will be made to the 2009 winners of the ASHRAE Technology Awards



ASHRAE BC BOARD MEMBERS PARTICIPATE IN YOUNG ENGINEERS IN ASHRAE LEADERSHIP WEEKEND

During the weekend of October 2-4, a group of 40+ young ASHRAE members from across Canada and the U.S. met in Atlanta, GA for the YEA (Young Engineers in ASHRAE) Leadership Weekend. The weekend seminar and workshop was designed to build the leadership skills and awareness of the participants, in addition to finding new ways to promote young professionals to get involved in ASHRAE at each of the local, regional and society levels. The local B.C. Chapter was represented by Tariq Amlani of Stantec Consulting and Kyle Reese from Gordon Latham Limited. As a bonus, many of the weekend events were held at the new ASHRAE headquarters, which was recently awarded LEED® Platinum and has a detailed article in the November 2009 e-Society newsletter.

The seminar portion of the weekend was lead by Stephen Gray, a professor from Eastern Carolina University. It focused largely on personal awareness, team dynamics, and leadership skills. Through personality profiling tools, we explored how we operate internally, what type of role might fit us best, and how we can relate to and surround ourselves with others who complement our own skill sets. We used a number of fun and often humorous (some would say humiliating) examples of our past as icebreakers and in order to find common ground across cultures and personality types.

In addition, the weekend included a workshop designed to find new ways to get young professionals involved in ASHRAE. In groups of 6-7 members, we sought to develop events and programs at various levels of ASHRAE, which concluded with presentations to the entire YEA group. My team, in particular, focused on finding ways to get YEA members involved in the Student Activities in local chapters.

The weekend also allowed for some great networking opportunities with the other YEA members from across North America. Between the shuffleboard tournament and catching a foul ball at the Braves game, many great connections were made.

The weekend was an overall success. It was a great opportunity to network and exchange ideas, and to see what is being done throughout North America to promote ASHRAE membership to young professionals. If any young professional is interested, I highly recommend that you join the YEA ranks (it costs nothing), and if possible, make an effort to attend a future YEA Leadership Weekend.

If you would like more information, you can contact Tariq at tariq.amlani@stantec.com or me at kreese@lathams.ca. You can find more general information on YEA membership at <http://www.ashrae.org/members/page/861>.

Stay tuned for details on an upcoming Pub night for local Young Engineers in ASHRAE.

Kyle Reese, Student Activities Chair, ASHRAE BC Chapter



ASHRAE RESEARCH PROMOTION CAMPAIGN 2009-2010

Each year, every ASHRAE Chapter raises funds to support ASHRAE Research projects. In 2008-2009, these efforts raised over \$2 million dollars.

For this year, the B.C. Chapter has a goal of raising \$19,000 through our local membership. This money is raised through Corporate and Individual Donations; Research Draws at our monthly meetings; and Our Annual Golf Tournament.

We are off to a great start to this year’s campaign having already raised over \$8,500. However, we still have a long way to go, and would like to encourage our B.C. Chapter Membership to consider making a donation. It doesn’t have to be large, every dollar counts!!! Remember, all funds raised in Canada, supports research in Canada

Please contact **Chris Collett**, Research Promotion Chair, at 604 535-4215 or by e-mail to chris@collett.net to make your donation, or for more information.

Thank you to the following Companies and Individuals who have already supported the ASHRAE Research Campaign this year.

Major Donors (\$500 +)

- B.C. Boiler Services
- Delta Controls
- Emona Sales
- Stantec Consulting

Companies (\$100 to \$500)

- | | |
|------------------------------|---------------------|
| Blue Ridge Engineering | Ecco Manufacturing |
| Fred Welsh Ltd | Gordon Latham Ltd |
| HVAC Systems & Solutions | MMM Group |
| Modern Systems Management | Prism Engineering |
| Sterling Cooper & Associates | Yoneda & Associates |

Individuals (\$100 to \$200)

- | | | |
|------------------|----------------|-----------------|
| Tariq Amlani | Patrick Berard | Alex Boome |
| Steve Bruskiwich | Chris Collett | Roberto Costa |
| Rob Flipse | Harold Forsyth | Norm Grusnick |
| Ivan Holdo | John Hoyle | Gerald Hughes |
| Tim Hutchison | Luka Kokan | Antoni Kostka |
| John Lamble | Arie Muntz | Miles Murray |
| Les Pereira | Dick Perry | Dick Reitenbach |
| Kim Rosval | Charlie Sabeau | Mihaela Spulber |
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Shrink your carbon footprint: stretch your budget

Terasen Gas is here to help

This year Terasen Gas received approval from the British Columbia Utilities Commission (BCUC) for a new Energy Efficiency and Conservation (EEC) initiative to provide customers enhanced tools and incentives to manage their natural gas consumption, reduce their energy costs, and lower their greenhouse gas emissions.

For ASHRAE members, the benefits can already be seen with two EEC programs for commercial boilers: the Efficient Boiler Program which has been around for a while; and the more recently introduced Light Commercial Boiler Program.

With almost half the EEC initiatives supporting commercial natural gas customers, the boiler programs are indicative of what ASHRAE members can expect from Terasen Gas as the company introduces more Energy Efficiency and Conservation initiatives in 2010.

Learn more about how you can save now

Terms and conditions for the commercial boiler programs and the application forms can be found in the Building Professions and Trades section of the Terasen Gas website at terasengas.com or call Terasen Gas at 1-866-884-8833.

SEPTEMBER 2009 MEETING REPORT

TOUR OF THE NEW VANCOUVER CONVENTION CENTRE WEST BUILDING

The 2009-2010 ASHRAE B.C. Chapter year began with a tour of the new Vancouver Convention Centre West Building, which will be serving as the International Broadcast Centre for the upcoming 2010 Winter Olympics.

More than 150 attendees heard from **Jacques Beaudreault** of Musson Cattell Mackay Partnership (the Project Architect) and from **Robert Abbenhuis** of Stantec Consulting (the Project Mechanical Designer) about their visions and experiences from the project. The presentations were followed by tours led by the Building Engineers. Highlight of the tour of the magnificent new building, included visits to mechanical rooms, the green roof, and the waste water treatment plant.

Several of the firms involved with the construction of the building were also present, and contributed to the tour, including Fred Welsh Ltd., and Viaduct Sheet Metal. Special thanks to **Mike Ohlmann** from Fred Welsh Ltd. who donated two box seats for the ASHRAE Research Draw.

The ASHRAE B.C. Chapter would also like to sincerely thank **Rand MacKenzie** (Director, Facility Operations); **Mike Garcia** (Chief Building Engineer); and **Li Wong** (Event Assistant) from the Vancouver Convention Centre to helped to arrange this event.





“MOVEMBER” & THE UBC ASHRAE STUDENT BRANCH

Each November, men around the world participate in a month long celebration of the moustache and help to highlight men's issues - specifically prostate cancer. The event, which has come to be known as **Movember**, is an opportunity to raise awareness for men's health and to raise funds by collecting donations.

The UBC ASHRAE Student Chapter is participating in this worthwhile cause this year, and all of the money raised will go directly to Prostate Cancer Canada.

To make a donation, please go to www.movember.com/ca and click on the Donate tab. The UBC team can be found under UBC ASHRAE, and all denominations are welcome.

If you have any questions, email Jeff Snow from the UBC Student Branch at snowjeff@interchange.ubc.ca



**THE ASHRAE B.C.CHAPTER HAS NOW ESTABLISHED A
CENTRALIZED E-MAIL ADDRESS & E-MAIL DISTRIBUTION SYSTEM**

THE NEW E-MAIL ADDRESS IS

totem.bc.chapter@gmail.com

**YOU WILL BE RECEIVING FUTURE E-MAILS FROM THE
ASHRAE B.C. CHAPTER FROM THIS E-MAIL ADDRESS.**

**YOU MAY WISH TO ADD THIS E-MAIL ADDRESS TO YOUR CONTACT
LIST, AS IT SHOULD ENSURE THAT THE CHAPTER E-MAILS DO NOT
GET FLAGGED AS SPAM.**



OCTOBER 2009 MEETING REPORT

BOILER RETROFIT AT THE CROATIAN CULTURAL CENTRE

The ASHRAE BC Chapter Dinner Meeting in September 2009 enjoyed a new venue: the Croatian Cultural Centre in East Vancouver. The Meeting Topic was the recent Boiler Retrofit at the Cultural Centre. The more than 90 people at the meeting heard presentations from **Kal Minhas** from EMONA Sales Ltd. and **Marc Gauvreau** and **Denis Gauvreau** from Flofab in Montreal.

The meeting attendees caused quite a stir at the Croatian Cultural Centre when visiting the boiler room, because Wednesday evening is Bingo Night—a very busy night, as evidenced by the parking difficulties! There was a steady stream of ASHRAE people walking through the Bingo Hall over the evening, which elicited many quizzical stares from the Bingo players!

The meeting was generously sponsored by **Frank Sever** from EMONA Sales Ltd, and **Zack Krvavac** from B.C. Boiler Services Ltd. As a result of their sponsorship, \$1,400 was raised from ASHRAE Research.

Another highlight of the evening was the visit of **Doug LeCren**, Regional Vice Chair for Student Activities, from Alaska. Doug met with **Kyle Reese** (B.C. Chapter Student Activities Chair) and members of the Student Branches at BCIT and UBC.





Make Energy Efficiency a Top Priority

Dollars to \$ense energy management workshops, offered by Natural Resources Canada, allow you to explore the latest in energy management techniques while networking and sharing ideas with business, utility and government representatives.

Spot the Energy Savings Opportunities

Wednesday, December 9, 2009

Energy Monitoring

Thursday, December 10, 2009

Holiday Inn Hotel & Suites North Vancouver
(North Shore Ballroom)
700 Old Lillooet Road
North Vancouver, BC V7J 2H5



Spot the Energy Savings Opportunities is a full-day workshop that will help you identify low-cost ways to cut energy consumption in your organization using a 7-step process. Learn how to

- understand the basic principles of thermal and electrical energy
- identify when and where energy is used and how your organization is billed
- assess the energy waste and efficiency of your organization's plant and processes
- reduce energy use in operating everything from lighting and fans to boilers and compressors and prioritize your opportunities

Who should attend?

Energy champions/managers, plant and process engineers/managers, maintenance and production supervisors, electrical and mechanical trades people, "shop-floor" personnel, energy service providers.

Robert Greenwald and Brian O'Donnell of Prism Engineering Ltd. will lead this workshop.

Basic registration fee:

\$340 per workshop

Fee for additional workshop or participant from the same organization:

\$255 per workshop (To qualify for a discount, registration must occur on the same on-line form.)

Register at pee.nrcan.gc.ca/workshops by November 27 to reserve your spot. For more information contact Geneviève Thachik at 613-943-2361 or genethac@nrcan.gc.ca, or Stéphanie Roy at 613-996-0763 or steroy@nrcan.gc.ca for more information.

Other Dollars to \$ense workshops are scheduled to take place in British Columbia in 2010. Visit the Dollars to \$ense Web site to find out when.



Energy Monitoring is a full-day workshop that focuses on how your organization can save energy through systematic monitoring and analysis. Participants are encouraged to bring a laptop computer to gain the most benefit from workshop activities. Learn how to

- record and track energy consumption throughout your organization
- turn energy data into useful information using an Excel[®]-based tool provided at the workshop
- provide feedback on energy use to fine-tune your energy management plan and to motivate staff
- demonstrate the results of energy projects

Who should attend?

Energy champions/managers, building managers, financial operations managers, operating engineers, maintenance and production supervisors.

Robert Greenwald and Brian O'Donnell of Prism Engineering Ltd. will lead this workshop.



**THE 2008-2009 ASHRAE TECHNOLOGY AWARD WINNERS
WILL BE HONOURED AT THE JANUARY MEETING**

Region XI Winner: New Health Care Facilities

**ABBOTSFORD REGIONAL HOSPITAL &
CANCER CARE CENTRE
Stantec Consulting**

Region XI Winner: New Public Assembly Building

**RICHMOND OLYMPIC OVAL
Stantec Consulting**

Norm Grusnick

the ASHRAE B.C. Chapter Historian

has recently updated our chapter history.

**Read the newly updated history
information at**

<http://www.ashrae.bc.ca/bc/history.html>



NOVEMBER 2009 MEETING REPORT

EVERYTHING YOU WANTED TO KNOW ABOUT ENERGY RELATED ASHRAE STANDARDS

At the November Dinner Meeting, ASHRAE Distinguished Lecturer, **Paul Pieper** from Venmar CES Inc. in Montreal shared his wealth of knowledge on energy-related ASHRAE standards with the 70 people in attendance.

Paul's presentation was titled "*Meeting and Exceeding High Performance Standards, Codes and Guideline with Air-to Air Recovery Systems and Equipment*". The talk touched on ASHRAE Standards 55; 62.1 and 90.1 ; ARI Standard 1060-2005; LEED and the proposed ASHRAE Standard for the Design of High Performance Green Buildings 189.1P.

Paul's presentation can be downloaded from the B.C Chapter website at the following URL:

http://www.ashrae.bc.ca/bc/misc/Pieper_Presentation.pdf

Thank you to **Paul Pieper** for his informative presentation. Thank you also to **Ecco Heating Ltd.** for their generous donation of two Canucks tickets for the Research Draw, which raised \$250 for ASHRAE Research.



ASHRAE Distinguished Lecturer, Paul Pieper, is obviously pleased to be leaving the rain behind in Vancouver, as he heads back to Montreal!



Just a Joke

A boy was crossing a road one day when a frog called out to him and said, "If you kiss me, I'll turn into a beautiful princess." He bent over, picked up the frog and put it in his pocket. The frog spoke up again and said, "If you kiss me and turn me back into a beautiful princess, I will stay with you for one week." The boy took the frog out of his pocket, smiled at it and returned it to his pocket. The frog then cried out, "If you kiss me and turn me back into a princess, I'll stay with you and do ANYTHING you want." Again the boy took the frog out, smiled at it and put it back into his pocket. Finally, the frog asked, "What is the matter? I've told you I'm a beautiful princess, that I'll stay with you for a week and do anything you want. Why won't you kiss me?" The boy said, "Look I'm an engineer. I don't have time for a girlfriend, but a talking frog is cool."

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.

Send the information by email to the Totem Newsletter Editor at chris@collett.net

You will see your article in the next Totem!

Advertisement and Opportunities

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 half page maximum and can be e-mailed to Newsletter editor Chris Collett at chris@collett.net



MAKING A CASE FOR ENERGY EFFICIENCY IN EXISTING BUILDINGS: NEW INDUSTRY PUBLICATION

Improving energy use all comes down to green – the green of energy efficiency and resource sustainability as well as the green of money.

So, show them the money. Building owners and managers of existing buildings need to understand the economic benefits of improving systems and operations. A new publication from leading industry organizations provides guidance for the business case to achieve energy savings as much as 30 percent.

Energy Efficiency Guide for Existing Commercial Buildings: The Business Case for Building Owners and Managers provides the rationale for making economic decisions related to improving and sustaining energy efficiency in existing buildings. Approximately 86 percent of U.S. annual building construction expenditures relate to renovation of existing buildings vs. new construction.

“Our goal is to enable business owners to break down the ‘mystery’ of energy conservation opportunities into business-based scenarios that are both practical and cost-justifiable,” said George Jackins, who chaired the committee overseeing the book. “To achieve true sustainability in the building industry, we must help owners learn that investing in energy efficiency translates into a high rate of return with a low associated risk. Owners and managers typically view buildings in terms of short-term economics. We must make the transition from best value vs. lowest first cost of buildings.”

Specifically, the guide provides straight-forward applications that could produce energy savings from 10 to 15 percent to a more aggressive approach that could save 30 percent or more.

The book is a collaboration between ASHRAE, the American Institute of Architects, the Building Owners and Managers Association, the Illuminating Engineering Society of North America, the U.S. General Services Administration and the U.S. Green Building Council.

Here are the five important tips that owners and managers need to know to make their buildings energy efficient:

- Know your current energy utilization index (EUI) (kBtu/SF-year).
- Establish a target EUI and an initial budget estimate for achieving this goal.
- Conduct an internal energy study/audit (using *ASHRAE's Procedures for Commercial Building Energy Audits* as a basis) or have the facility retro-commissioned by a certified retro-commissioning firm. This activity may result in a modification to the original estimated budget amount.
- Identify energy efficiency measures with attractive rates of return on energy retrofit or renovation investments.
- Implement the recommended energy conservation measures that will get the facility to the desired goal with the stipulated budget.
- Commission the energy conservation measures by a certified commissioning firm. This process should include training of facility personnel on properly operating and maintaining equipment and systems.

The book is the first of three planned guides on energy efficiency. The second will be aimed at providing technical guidance in undertaking existing building renovation programs. The third will provide operation and maintenance guidance to help sustain the energy efficiency.

The cost of *Energy Efficiency Guide for Existing Commercial Buildings: The Business Case for Building Owners and Managers* is \$69 (\$59, ASHRAE members). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit www.ashrae.org/energyguide.



ASHRAE BC Chapter 2009-2010 Officers and Committee Directory

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Please help us keep you updated by keeping us updated

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

If you have not been receiving your email meeting notices or you have changed your e-mail information, please let us know at totem.bc.chapter@gmail.com.

Please include the following:

Name: _____,

Company Name: _____

Address: _____

Phone: _____,

Fax: _____,

Email: _____ Membership _____