



 		STUDENT NIGHT - Dinner Meeting and Speaker Wednesday, February 15, 2006		
		Tabletop Displays	Cobalt Eng, MCW Eng, Stantec Eng	
		Place:	Dinner Topic: Discuss the challenges and opportunities, and the Government of Canada Energy Efficiency programs to encourage energy efficiency and reduce greenhouse gas generation from buildings. Speaker: <i>Louis Marmen</i> , Office of Energy Efficiency, Natural Resources Canada	
		Time:	Pre-Dinner Workshop (4:30pm): Overview of "CBIP". Natural Resources Canada's Office of Energy Efficiency encourages the design and construction of new, energy-efficient commercial, institutional and multi-unit residential buildings and facilities. The Commercial Building Incentive Program (CBIP) provides design assistance and funding of up to \$60,000 for eligible organizations based on building energy savings.	
		Cost:	4:30 PM: Workshop 5:30 PM: Social Hour 6:30 PM: Dinner followed by presentation Chapter Members - \$30 Society Members & Guests of Members - \$33 Students - \$10	
Visit the ASHRAE BC HOME PAGE www.ashrae.bc.ca		All reservations should be made by noon on Monday, Feb 13 th , 2006 Please fax, phone, or e-mail your reservations to: Victor Raju - Attendance Chairman Fax: 604-525-3147 Tel: 604-525-3341 vraju@decdesign.ca		

PRESIDENT'S MESSAGE

Bob MacKie

February President's Message –

PRESIDENT'S MESSAGE

1. National Engineers Week - Support your Chapter, Bring a Guest, Ensure a Friend is Advised of Meetings
2. ASHRAE Trade Show "Green is Easy" Brochure
3. USGBC Natural Talent 2006 Design Competition
4. BC Chapter Membership Roster
5. Election of Officers and Board of Governors

Advertising on the ASHRAE-BC Website

The "Manual for Chapter Operations" allows our chapter to accept "business card" type advertising on the Website. We can include links to company web sites and charge fees for those links. Some conditions apply.

MEMBERSHIP MATTERS
Steve Montagano
Chapter Membership
Chairman



PRESIDENT'S MESSAGE

Bob MacKie

1. National Engineers Week - Support your Chapter, Bring a Guest, Ensure a Friend is Advised of Meetings

Fortunately BC's economy is on an upswing. People are busy. I have heard from engineers recently about the long hours they are working. This always makes it hard to get people out to ASHRAE meetings. Our Chapter "organizes events and seminars for B.C. members to keep them actively involved with ASHRAE International matters as well as to advance members' knowledge on heating, refrigeration, and air-conditioning." I think that is a worthwhile goal, but we can't do it without your help. National Engineers Week in Canada is February 25 to March 5, 2006. <http://www.new-sng.com/maintemplate.cfm> I would like to ask each member to commit to doing something to support ASHRAE in the next few months.

- Mark on your calendar to attend the ASHRAE Trade Show on May 17. (The most common complaint from exhibitors is not enough engineers show up.)
- Attend a Chapter meeting and maybe bring a guest. See events at <http://www.ashrae.bc.ca/bc/bc.htm>.
- If you really can't afford the time to attend a function, send Lisa Willis mailto:vulcan_agencies@telus.net the email of someone who is not a member and therefore doesn't get advised of meetings and technical sessions. We maintain a list of non-members which we keep as secure as the member list. We email notice of monthly meetings so that they are kept advised of technical sessions and speakers that they might otherwise not hear about.
- Really, really easy option. Forward this email to someone in the industry that you don't think is an ASHRAE member.

Note that the options above are not mutually exclusive. You can do them all and get top ABP (ASHRAE Brownie Points). Thanks.

2. ASHRAE Trade Show "Green is Easy" Brochure

Contact Gail Hutchison if you would like to have copies of the Trade Show brochure for distribution. Also, to get an exhibitor package contact Tim at tim_hutchison@telus.net if you want to exhibit at the Trade Show on Wednesday May 17, 2006. Booths are being selected now and it is first come, first served.

3. USGBC Natural Talent 2006 Design Competition

Speaking of things green; in Kelowna, a group has formed to compete in the USGBC Natural Talent 2006 Design Competition. This competition is for university level students (of any discipline and level) and individuals with less than five (5) years experience in the building industry. They will be the one Canadian centre and already have a group from Calgary and one from Montreal that will participate. The winner will attend Greenbuild 2006 will be held in Denver, CO, in November 2006. Details at https://www.usgbc.org/FileHandling/show_general_file.asp?DocumentID=1264 They are also looking for corporate sponsors.



Book Review

Twilight in the Desert, Matthew R, Simmons

Reviewed by Ed Chessor, CIH, P.Eng.

For the last 20 years Saudi Arabia has been assuring the rest of the world that it will be able to produce 10 to 15 million barrels of oil per day for another 20 years.

Matthew Simmons does not believe that Saudi Arabia could produce 10 million barrels a day for even a month. The highest reported production achieved by Saudi oilfields was 9.7 million barrels per day in 1980. The maximum short term sustainable rate today is probably considerably less, and will decline every year. He does not believe that the world's biggest oil producer can live up to its promise to continue to provide all the oil the world needs.

Simmons guides the reader through the whole history of Saudi Arabia from 1902 to 2005, giving a clear explanation of the complex business of extracting oil from Saudi Arabia's reserves. He makes the case that most of Saudi Arabia's accessible oil has been extracted and sold. Expensive and sophisticated technologies have been widely applied for over 20 years to cope with problems that arise in all aging oil fields. Chief among those is a rising proportion of water in the oil coming to the surface..

In 1980 Saudi Arabia provided over 15% of the world's crude oil. Production was cut back sharply in '81 and 82 in response to a decline in world demand. There is not much reliable data on production from OPEC nations since 1983, but Simmons is convinced that Saudi Arabia has remained the world's biggest oil producer.

From 1983 to 2000 global demand grew steadily, from 53 million to 68 million barrels per day. There were only two or three substantial oil discoveries between 1980 and 2005. Almost all the other major oil fields in the world are also in the declining production phase of their lives. Prudhoe Bay is

producing about 30% of the 1.5 million barrels per day it provided from 1980 to 1989, several North Sea fields are producing less than half their peak flows. Oil production from the lower 48 states of the US peaked in 1970, and is now less than half that peak rate. The story is the same around the world.

When the declining production meets growing demand from China and India, the price of crude oil will rise dramatically. If the world's transportation system is as dependant on petroleum fuels as it is today, the shrinking supply will have dramatic impacts on the world economy.

There is one significant omission from this analysis, the potential contribution of oil from tar sands in Alberta and elsewhere. Tar sands oil is not mentioned in this book. The three tar sands projects currently in production in Alberta provide something less than a million barrels a day, in total. A ten year long program of expansion that required several billion dollars of capital will increase Syncrude's production from 200,000 to 350,000 barrels per day. Suncor has announced that they plan to produce 350,000 barrels per day by the end of 2006. They too have invested billions over the last few years. Tens of billions will be invested in tar sands extraction and processing over the next decade, but the output cannot be expected to offset the declines in production from conventional oil sources in the Middle East.

Definitely worth reading, to prepare yourself for rapid increases in oil and gas prices.

PRESIDENT'S MESSAGE cont....

Bob MacKie

4. BC Chapter Membership Roster

All chapter members will receive a .pdf of the Membership roster without email addresses. (We have elected to eliminate emails so that it is more difficult to add our membership emails to a list you may not want to be on.) You will have some time to go to the ASHRAE web site and change your contact information before we print the roster. You also have time to contact Charlotte BCChapterSecretary@Mail.ASHRAE.org with your business card if you want to have it in the roster before it is printed. Cost is \$50 per card.

As soon as you get your list, please check your information is current. If not, go to www.ASHRAE.org , Membership > Manage Your Membership > Address Change. You will need your Member ID and PIN that you can find on your ASHRAE membership card. We will then need to give ASHRAE some time to make the change and we will be able to download your revised information. The printed rosters will include emails as they have in the past.



TOROMONT

CIMCO

CIMCO Refrigeration is a Division of Toromont Industries Ltd., which represents the largest industrial refrigeration design, engineering and contracting group in North America.

Founded in 1913 CIMCO has twenty-eight offices across Canada, the United States, Europe, and Asia; as well as a 60,000sq.ft. Manufacturing facility in Toronto. We

specialize in the food processing, dairy, cold storage, and recreational skating industries, including NHL facilities in both Canada and the United States.

We are currently seeking personnel in several offices including Vancouver, Edmonton, Calgary, and Winnipeg.

Automation Engineers/Technologists – PLC and/or DDC programming experience required. Background with industrial process control applications is an asset.

Mechanical or Industrial Engineers/Technologists – Background in process piping design or project management an asset.

Sales Representative – HVAC&R service sales experience required.

Graduate Technologists and Engineers in Training – Construction industry experience an asset.

Visit www.cimcorefrigeration.com for more information on our organization and if interested please forward a cover letter and resume to: wborrowman@toromont.com

Getting the last laugh

The great mathematician David Hilbert was invited to give a talk on any subject he liked during the early days of air travel. His subject: The Proof of Fermat's Last Theorem

Needless to say, his talk was eagerly anticipated. The day arrived, the talk was given, and it was brilliant -- but it had nothing at all to do with Fermat's Last Theorem. After the talk, someone asked Hilbert why he had picked a title that had nothing to do with the talk. His answer: "Oh, that title was just in case the plane crashed."

"God has been replaced, as he has all over the West, with respectability and air conditioning."

Imamu Amiri Baraka

"I put my air conditioner in backwards. It got cold outside. The weatherman on TV was confused... 'It was supposed to be hot today'."

Steven Wright

Announcement - GLOBE 2006

On March 29th to 31st at the Vancouver Convention and Exhibition Centre more than 400 exhibitors from North America, Europe and Asia will be at GLOBE 2006, displaying a broad range of environmental technologies, services and solutions to 10,000 participants from around the world.

The Trade Fair will highlight innovations in critical sectors of the environmental business industry, including two exciting showcases featuring the most recent advances in Transportation Technologies and Sustainable Construction.

GLOBE 2006 will be an ideal venue for visitors to learn more about the most cutting-edge advances in environmental technology and discover future prospects in the multi-billion dollar environmental market - all in one place.

For more information see www.globe2006.com

Changes in the operation of our factory are specified on standard forms, which are then posted. One of our engineers decided to announce her pregnancy in this manner. The instructions were: "To Debbie and Tony DiBiase, add one little DiBiase in seven months." Delighted staff members trooped by to congratulate her. One engineer, however, read the notice and then asked her, "Are you going to get pregnant?" "I'm not *going* to," she hinted, but he still seemed confused. "Loren," she said, "think of this as an engineering problem. If you have a project that takes nine months to complete, and you're going to finish it in seven months, what does that mean?" A true engineer, Loren replied, "You're going to get a bonus?"



ASHRAE-B.C. Chapter and Industry Events - 2005/2006
Dates and events are subject to change and will be updated as required.

Generally, chapter meetings are the second Wednesday - after the first Monday of the month - at the Italian Cultural Centre at 5:30 pm. Exceptions are there are no meetings in the summer June through August, and no meeting in December

Date	Event / Topic
September 14, 2005	Tour of UBC Life Sciences Building, Dinner at UBC Graduate Student Centre
October 12, 2005	Oct 12 - RVC visit: Speaker on Pump Load Matching
November 16, 2005	Speaker on Energy Savings by Integrating a Total Filtration Strategy into Building HVAC
December 2005	No Meeting
January 11, 2006	Past President's Night
February 15, 2006	Student Night
March 15, 2006	Speaker on 2010 Olympics
April 12, 2006	Tradeshaw dinner meeting: Commissioning Green Buildings for USGBC LEED Program, ASHRAE Distinguished Lecturer Ronald Wilkinson
May 15, 2006	Refrigeration Night: Tour of Zero loc Insulated Panel Manufacturing Plant
June 08, 2006	No Meeting
June 2006	No Meeting
July 2006	No Meeting

PRESIDENT'S MESSAGE cont...

Bob MacKie

5. Election of Officers and Board of Governors - The nominating committee selects candidates, from members in good standing, for officers and Board of Governors. At the February 15th meeting the Board of Governors shall submit to the members their nominations for who wants to be part of the nominating committee. The chapter will elect five members to the nominating committee at the March 15th meeting. The Nominating Committee will present their nominations for Officers and Board at the April 12th meeting and elections will be held then. Board and Officers will be sworn in at our Annual Meeting after the Trade Show on May 17. More information on this process is available from the MANUAL FOR CHAPTER OPERATIONS at www.ashrae.org .

Your Board of Governors are:

- President, Bob MacKie, BCChapterPresident@mail.ashrae.org
- President Elect, Ed Chessor, BCChapterPresElect@Mail.ASHRAE.org
- Vice President Programs, Wayne Borrowman, BCChapterPrograms@Mail.ASHRAE.org
- Treasurer, Chris Collett, BCChapterTreasurer@Mail.ASHRAE.org
- Secretary, Charlotte Ross, BCChapterSecretary@Mail.ASHRAE.org
- Governor, Eric Bradley, ericbradley@telus.net
- Governor, Ivan Holdo, iholdo@trane.com
- Governor, Charlie Sabean, csabean@modern-systems.com

They are also listed on our web site at <http://www.ashrae.bc.ca/bc/bc.htm> Typically in our chapter each year the President retires to Past President and the President-Elect, VP Programs, Treasurer and Secretary each move up to take the next position. This provides for continuity from year to year and ensures that both the President and President-Elect have experience with all the officer's positions. That means each year we are looking for a person to be Secretary that is willing to move "up the ladder" over the next years and become President.