

Meeting Notice

Tuesday Sept 13th, 2005

@ The Willows Golf & Country Club

Speaker: TBA

Topic: TBA

5:30 - 6:00	Cash Bar
6:00 - 6:45	Supper
6:45 - 7:15	Chapter Meeting
7:30 - 8:30	Dinner Speaker

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



ASHRAE
SASKATOON

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Presidents Message

The board of governors and I would like to welcome you back to a new year of ASHRAE. Its hard to believe summer is almost over or that it was even here considering the weather we endured. It is a special year for our chapter because on March 25, 2006, it will be our chapter's 40th anniversary. This is something that all members should be very proud of since without everybody's participation and dedication this would not be possible. I am hoping that members show up to at least two meetings a year to enjoy the speakers and the camaraderie our meetings provide.

See you there.

Reg Hofmann

Golf Report

The annual Saskatoon ASHRAE tournament was held at the Willows on Thursday, May 26th. Thirty three hardy souls braved the frigid temperatures (again) for 18 holes, lunch, and dinner. Reg Hofmann won the golf portion and due to the generosity of our many sponsors, all golfers received at least one prize.

I would like to thank Jack Scott and Bob Daniels for their assistance in putting the tournament together again and all the members and guests who attended. We were able to show a small profit which was donated to ASHRAE Research.

Thanks again to all who participated

Mike Carr

Energy Answers

Rob Dumont

When will a peak in the world's conventional oil production or "Peak Oil" be reached?

Soon.

"Peak Oil" is a phrase that is becoming much more common these days. I googled "Peak Oil" and found 859,000 hits.

Peak oil refers to the time that the oil production in the world will reach its highest value. In the lower 48 states of the US, Peak Oil production occurred about 1970. In 1999 the UK passed its peak. All oil fields eventually reach a state of Peak Oil.

Some sources suggest that Peak Oil for the world will occur within a very short period, and some are even suggesting that the world has already reached Peak Oil. The following graph presents the expected peak in about 2008. The graph was prepared by the Association for the Study of Peak Oil. (www.peakoil.net)

OIL AND GAS LIQUIDS 2004 Scenario

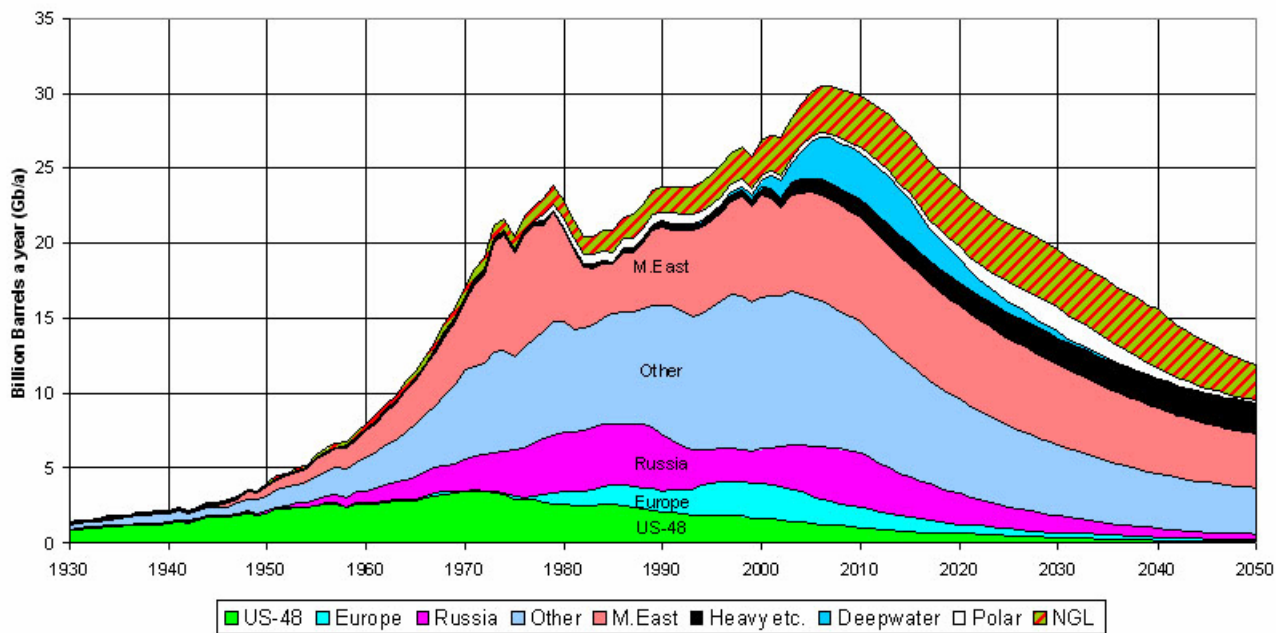


Figure 1. Past, current, and predicted oil production for the world. (Association for the Study of Peak Oil)

There are several point of interest on the graph. Note that the lowest line, representing the oil production from the US lower 48 states, shows a peak about 1970. The drop in total oil production from 1979 (upper line) to about 1983 is also evident. The consumption drop was precipitated by the strong rise in the price of oil, by high interest rates, and the recession. The peak in world oil production is expected to occur in about 2007 or 2008 according to this graph.

From Solplan Review Magazine, Box
86627, North Vancouver, BC, V7L 4L2?
An annual subscription to the
publication is \$48.15 including GST.

I was born in 1946. In my lifetime world oil production has increased from about 3 Billion barrels a year to about 30 Billion a year – a ten-fold expansion. Another ten-fold expansion is not possible. But is the above graph showing a peak in oil production in the next few years believable?

The following are some quotes from an April 2005 article entitled “Oil Production Could Peak Next Year,” in the Guardian newspaper from Great Britain.

One oilman, the Oklahoma oil magnate, T. Boone Picken, has this to say:

"Let me tell you some facts the way I see it. Global oil production is 84 million barrels a day [30.7 Billion barrels a year]. I don't believe you can get it any more than 84 million barrels. I don't care what (Prince) Abdullah (of Saudi Arabia), Putin or anybody else says about oil reserves or production. I think they are on decline in the biggest oil fields in the world today and I know what's it like once you turn the corner and start declining, it's a tread mill that you just can't keep up with."

Colin Campbell, an experienced oil geologist “reckons that the global peak production of conventional oil is approaching fast, perhaps even next year.”

The editor of Petroleum Review made a related remark: “Time is short and we are not even at the point where we admit we have a problem...The problem is that the peak, which I think is 2008, is tomorrow in planning terms.”

The U.S. Office of Petroleum Reserves said the following:”Although there is no agreement about the date that world oil production will peak, forecasts presented by US Geological Survey geologist Les Magoon, the Oil and Gas Journal and other experts expect the peak will occur between 2003 and 2020... What is notable is that none extend beyond the year 2020.”

Why is there such a variation in the estimate of when Peak Oil will occur?

One of the major problems is that oil reserves are not accurately reported. Colin Campbell notes that “estimates for OPEC Countries were systematically exaggerated in the late 1980s to secure a greater slice of the allocation cake. Middle East reserves jumped 43% in just 3 years despite no major finds.”

Trust in conventional oil reserve numbers is thus not very high.

Given that “Peak Oil” will very likely occur before 2020 and may be even occurring in the next year, what will the world substitute as conventional oil production declines?

There are several supply options that can be pursued, all of which are considerably more expensive than conventional oil.

1. Enhanced oil recovery. More oil can be extracted using advanced techniques including carbon dioxide flooding, vapour extraction, etc.
2. Tar sands and heavy oil
3. Shale oil
4. Converting coal into oil
5. Bioenergy from crop and forest materials

As I write this article, the price of oil is about \$60 US a barrel and gasoline at the pumps is about 95 cents Canadian per litre in Saskatoon; whether these prices will hold at this level in the short term is not clear. Over the long term, however, the price of oil will have to be much higher.

Membership News

Previous Meeting Attendance: An attendance report for May, which was our Local Chapter Golf Tournament, is not available.

2005 CRC - Honolulu: I attended the 2005 CRC as Local Chapter Membership Promotion Chair. This CRC was a joint Region X and Region XI conference and was well attended by our chapter and all chapters in both Regions. I participated in the Membership Promotion and Web Site workshops with other chapter members within our Region.

Rosters: Saskatoon Chapter 2005-2006 rosters will be updated for the current year. Information for any updates will be downloaded from Society's database. Ensure your contact information is current and make any revision necessary. An updated roster should be available by November.

Membership Advancements: I would like to congratulate 2 local chapter members who have successfully advanced to member grade;

Norm Hain- Hain Engineering

Carey Simonson – University of Saskatchewan

Membership Updates: I encourage all members to access the ASHRAE web site to confirm and update your personal and business contact information. This data is what ASHRAE uses to forward information and what our local chapter uses for roster and e-mail notification. To manage your membership information use the following link, (*you will need your membership and PIN number found on your membership card*).

<http://www.ashrae.org/template/MemberLinkLanding/category/1570>

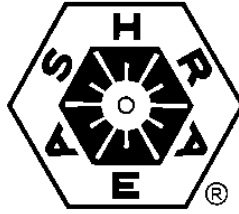
Member Delinquency: Currently we have 37 members who have not submitted their ASHRAE membership dues. Of the 37, 30 are delinquent by only 1 month. This is a friendly reminder to check your inbox for your renewal notice. The other 7 members can expect a more personal contact.

Web Site: Check our web page for all the latest news on our local chapter.

<http://www.saskatoon.ashraechapters.org>

Jeff A. Frie A.Sc.T.

Membership Promotion Chairperson



ASHRAE Saskatoon Chapter is pleased to present:

Fundamentals of HVAC

Fundamentals of HVAC is a two day course aimed at providing a fundamental understanding of the how HVAC systems function in controlling temperature, moisture content, air quality and air circulation.

TOPICS INCLUDE:

- Basic functions of components that form HVAC systems
- Layout and functioning of common HVAC systems
- Space and load determination
- Strategies for operating and their means of control.

DATE: October 26th and 27th, 2005. Lunch will be provided.

REGISTER BY: October 14th, 2005.

COST: \$350.00 for local ASHRAE Saskatoon members
\$400.00 for non-members.

Seating is limited. To reserve your spot or request additional information contact:
Chris Conley at chris.conley@dwel.com or (306)477-0678.

Additional Information including instructor bio available at:

http://www.saskatoon.ashraechapters.org/main_page.htm

Pay early & avoid the nagging follow up calls

Please complete the attached Invoice indicating which method of meal payment you would like to participate in; Plan “A” – prepayment, Plan “B: - pay as you go.

To participate under Plan “A” and/or to be a roster sponsor, please mail your payment as indicated or bring to the September / October Meeting.

If you plan on participating under Plan “B” please complete the attached form and fax it to 477-1995.

Please note the Roster Sponsorship as well. The Roster will be coming out soon so this will be your only Chance to have your company identified!

DEADLINE for PAYMENT: OCTOBER 11TH



INVOICE

ASHRAE SASKATOON

Member Information

Name:	
Company:	
Street:	
City:	
Postal Code:	
Phone:	
Fax:	
Email:	

**2005 / 2006
Meal Plan**

Selections	ITEM	COST	AMOUNT
	Plan "A" Includes Saskatoon Chapter monthly newsletter & meals for all regular meetings. Your Name will be included in our local Chapter Roster.	\$90.00	
	Plan "B" Includes Saskatoon Chapter monthly newsletter, Meals are pay as you go @ \$20.00 / meeting.	\$0.00	
	Roster Sponsor Roster Sponsors Recognition is given to sponsoring members / companies in the roster.	\$20.00	
		TOTAL	

Please return payment with this invoice form to:

**ASHRAE Saskatoon
Attn: Ryan MacGillivray
Box 7043
Saskatoon, SK S7K 4J1**