

Energy Institute (Hong Kong Branch) 能源學會(香港分會)

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Incorporated by Royal Charter 2003

Organiser



Implementation by

Energy Institute (Hong Kong Branch)

Co-organiser



12 April 2010

Technical Talk on Oil Sands Development in Canada 29th April 2010 (Thursday)

Dear EI (HK) Member,

Energy Institute (Hong Kong Branch) is organizing a Technical Talk on Oil Sands Development in Canada on 29th April 2010 (Thursday) for its members.

Programme Highlight

Canada's oil sands deposits contain as much as 173 billion barrels of economically viable oil, second only in size to Saudi Arabia. Current oil sands production is about one million barrels of oil per day. By 2020, production is expected to grow to almost four million barrels per day. There is the potential for over 100 years of production. The oil in the oil sands is called bitumen which is very different to conventional crude oil. Bitumen does not flow in its natural state. It must be processed, or upgraded, to resemble light crude oil. Currently there are two main processes to extract the oil from the sand deposit -- mining and in situ. Both of these processes require large amount of water and natural gas.

For oil sand producers, in order to achieve their economy of scale the oil sand development projects are of "Mega" scales in term of US\$ billions in investments. A typical project goes for about 4-6 years from concept to commissioning. At employs 4-5,000 workers at the peak of its construction. This posts many major challenges in terms of labor forces, housing and infrastructural requirements in a region where only a century ago was a "no-man's land".

Against this background, the presentation will provide a brief history of the Canadian oil sand development; it's history, how the oil is extracted, technology involved in processing (upgrading) the oil to useable products, how they are transported to market, and, challenges that the industry is facing in trying to balance the world hunger for oil vs. sustaining a green environment.

Speakers

Mr. Fung (Phillip) holds a B.Sc. Degree in Mechanical Engineering and a MBA in International Business from Canadian universities. He is a Registered Professional Engineer in Canada with over thirty years of engineering and project management experience in major oil and gas projects in Canada as well as several international projects.

While attending the University of Calgary in the early 70s, Mr. Fung (Phillip) was involved in a PHD program as research assistant to study the properties of the then new discovery in North Alberta – the “Tar Sand”. This research program eventually lead directly to the commercialization of the oil sand. Again, in 1993 when Mr. Fung (Phillip) left the employment of a major pipeline company in Canada, his first project as a consultant was to study the possibility of developing a new Vapor Extraction Process (VAPEX) to replace the heavily water-dependent conventional steam injection system for oil sand extraction. Since then Mr. Fung (Phillip) has been involved in the development of several heavy oil projects, including the US\$9 billion CNRL Horizon Project, in the capacities of Project Manager, Project Engineer and Lead Mechanical Engineer.

Aside from Oil Sand development, Mr. Fung (Phillip) has +20 years of experience in the design, construction and operation of long distance oil and natural gas pipelines, including sour gas and CO2 pipelines plus other facilities such as LNG terminals and offshore facilities. He is currently the Engineering Authority and Senior Technical Advisor to the Guangdong Dapeng LNG Company Ltd. in Shenzhen, China – the first LNG import terminal built and operated in China. Mr. Fung (Phillip) was involved in the initial design phase of this project in 2002-04 and was invited to return as the company's technical advisor in 2009.

Time & Date:

6:30 pm – 8:00 pm, 29th April, 2010

Venue:

Room 1019, 1/F HKPC Building, 78 Tat Chee Avenue, Kowloon Tong

Fee:

Free of charge. CPD Certificate will be issued to attendees.

Media:

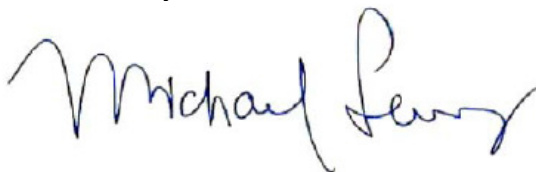
English / Cantonese supplemented with English Presentation Material.

Enquiries:

Please contact Mr. Gary Chiang, via email: secretary@energyinst.org.hk

We look forward to seeing you.

Yours sincerely,



Michael K.H. Leung
Chairman
Energy Institute (Hong Kong Branch)

Technical Talk
Oil Sands Development in Canada

29th April 2010 (Thursday)

Registration Form

For registration, please complete this registration form and return it to Mr. Gary Chiang, Honorary Secretary, by email: secretary@energyinst.org.hk on or before 27 April 2010. We shall accept maximum 40 participants and successful registration will be given on a first-come-first-served basis. We shall give you a confirmation via email or phone.

To: Mr. Gary Chiang – Honorary Secretary (email to secretary@energyinst.org.hk)

Name:

EI Membership No. :

Mobile/Tel. :

E-mail:
