



THE INSTITUTION OF ENGINEERS, MALAYSIA

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TALK ON

"ENHANCED OIL RECOVERY IN MALAYSIA - CHALLENGES"

(Organised by Oil, Gas & Mining Technical Division, IEM)

BEM Approved CPD/PDP: 2 Hours

Ref No: IEM16/HQ/153/T

Date : 18th May 2016 (Wednesday)
Time : 5.30 pm to 7.30 pm (Refreshments will be served at 5.00pm)
Venue : TUS and C&S Lecture Rooms, 2nd Floor, Wisma IEM, Petaling Jaya
Speaker : Ir. Razak Yakob

SYNOPSIS

Enhanced Oil Recovery (EOR) refers to the most complex method of bringing the hydrocarbon to the surface. There are three levels of well development. "Primary" refers to conventional development wells. "Secondary" refers to Improved Oil Recovery (IOR) such as waterflooding or pressure maintenance. "Tertiary" or better known as EOR is proven to be effective with recovery factor reaching 50-80% as compared to other levels with recovery less than 40%.

Many of the fields in Malaysia has been produced for as long as 40 years and reaching the maturity with applied secondary levels. Newly discovered areas are highly challenging to be developed with extremely high CO₂, high pressure and high temperature region, abnormal pressure zones, carbonates and/or deep water development.

In order to sustain the local production EOR is one of the major agenda in our Economic Transformation Program. It is one of the 13 Entry Points Project that supports the Oil, Gas and Energy NKEA (National Key Economic Areas). Even with the high recovery factor, EOR is still a very challenging program to be implemented in Malaysia due to the offshore environment, formation characteristics, high investment cost, and expertise availability. This talk shall focus on sharing the knowledge of what EOR is and the challenges of implementing it in Malaysia.

BIODATA OFSPEAKER

Ir. Razak Yakob was the Well Delivery Manager for the Enhanced Oil Recovery Centre (EORC) in 2012/2013. He was also the Senior Drilling Engineer for a Risk Service Contract Project in 2014/2015. Razak has been in the oil and gas industry for 19 years working for companies such as ExxonMobil, Halliburton, Talisman Energy, Petronas Carigali and EQ Petroleum/Uzma Engineering.

His core expertise is in Drilling Engineering with the working experiences spanning from development and exploration, technical support, training, competency development, finance and consultancy. As an independent consultant, he has worked in many parts of the world. He was a graduate of Colorado School of Mines in the United States with a degree majoring in Petroleum Engineering and a minor in Mechanical Design.

Ir. Mohd Azwira Mohd Azmi

Chairman

Oil, Gas & Mining Technical Division, IEM

ANNOUNCEMENTS TO NOTE:

- Preferential admission to talk shall be accorded to IEM members (pre-registration and online registration are NOT required). Telephone and/or fax reservation will NOT be entertained.
- **Non members** may also attend the talk but will need to pay a registration fee of **RM50** and an administrative fee of **RM15**. GST is inclusive.
- For members of affiliated organisations, there will be no registration fee payable. However, they are requested to produce their membership card as proof of membership. For the list of affiliated organisations, please refer to IEM website at www.myiem.org.my under International/MoU.
- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- IEM members are required to produce membership cards for confirmation of attendance (CPD purpose).
- Latecomers will not be allowed to enter if the lecture hall is full nor be entitled to CPD.
- **IEM members who fail to produce their membership cards will be charged a fee of RM25.00. GST is inclusive.**

ADMINISTRATIVE FEE

- Kindly be informed that an administrative fee of **RM15** is payable for talks organized by IEM. GST is inclusive.
- The fee would be used to cover overhead costs, building maintenance expenses as well as contribute to Wisma IEM Building Fund.
- All contributions will be deeply appreciated by IEM.
- Student Members are however exempted.

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