



# THE INSTITUTION OF ENGINEERS, MALAYSIA

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## TECHNICAL VISIT TO CENTRE OF ENHANCED OIL RECOVERY (EOR) AND CO2 MANAGEMENT CENTRE OF UNIVERSITI TEKNOLOGI PETRONAS

(Organised by Oil, Gas and Mining Technical Division)

BEM Approved CPD/PDP hours: 4 Hours

Ref No: IEM14/HQ/365/V

Date : **23<sup>rd</sup> October 2014 (Thursday)**  
Time : **7.00 am – 4.00 pm** (Assemble at Bangunan Ingenieur by 6.45 am)  
Venue : Universiti Teknologi PETRONAS, Bandar Seri Iskandar, 31750 Tronoh, Perak Darul Ridzuan.  
Transport : Coach will be provided. **(Coach will depart at 7.00 am sharp)**

### BACKGROUND

The depleting natural resources and increasing challenges in exploring new oil field has saw the importance of Enhanced Oil Recovery (EOR) in oil production industry. EOR has been recognized by the Malaysian Government as one of the focus area in Oil & Gas NKEA in year 2011.

The Centre of Research in EOR was established in UniversitiTeknologiPetronas (UTP) in year 2006 to promote excellence in EOR research that mostly addresses the needs of industry and to managelaboratory services. Research in the area has continuouslyexpanded at UTP since 2006. Most EOR research projectsare conducted by the petroleum engineering staff and thetopics are mostly conventional topics such as subsurfacefluid flow, rock fluid interactions etc. In addition, there is an increasing interest from non-petroleum engineeringresearching EOR chemicals, application of waves, advancedmaterials among others.

Carbon Dioxide (CO<sub>2</sub>) management is another challenges faced by the oil & gas industry. Nearly 40% of the world gas reservoir (approximately 2500 trillions cubic feet) contains high level of CO<sub>2</sub> and H<sub>2</sub>S that pose obstacles to development. Up to 13 trillions cubic feet of high CO<sub>2</sub>-Natural Gas fields remain undeveloped in Malaysia. Development of CO<sub>2</sub>-Natural Gas separation technologies will enable monetization gas fields in Malaysia.

The Mission Oriented Research for CO<sub>2</sub> Management in UTP is currently focusing on research activities in the separation technologies especially on adsorption, absorption, membrane, cryogenic, high gravitational separation and hybrid system including corrosion study. There are also some fundamental work currently on-going related to CO<sub>2</sub> utilization and transportation.

The visit to Centre of Research in EOR and CO<sub>2</sub> Management Centre would extent the knowledge ofengineers on research areas and applicationsonEOR and CO<sub>2</sub> management challenges in oil & gas industry.

TIME	ITINERARY
7.00 am	Bus departs from IEM, PJ
10.45 am	Arrival at UTP and welcoming remarks by DVC RI
11.00 am	Introduction to Enhanced Oil Recovery
12.00 pm	Introduction to CO2 Management
1.00 pm	Token of Appreciation and group photo
1.15 pm	Lunch
2.00 pm	Technical Visit to EOR Research Centre
3.00 pm	Technical Visit to CO2 Research Centre
4.00 pm	Adjourn

- ✓ The visit is strictly limited to **30 participants** registered on a first-come, first-served basis.
- ✓ Interested participants are to register and pay online at [www.myiem.org.my](http://www.myiem.org.my) or register by returning the appended registration form **before 20 October 2014** together with the payment.
- ✓ Cheques are to be made payable to **The Institution of Engineers, Malaysia**.
- ✓ Please note that the commitment fee must be settled prior to the visit. Payment on the day of the visit is not acceptable.
- ✓ After this closing date, IEM reserves the right to allocate seats on first come first pay basis.
- ✓ Members are also reminded that if a place is reserved, IEM *may* cancel the reservation if payment is not received.

**Commitment fees**  
**(Non refundable & non transferable)**  
**IEM Member : RM 50.00**  
**Non Member : RM 80.00**

**Ir. Ahmad Rafidi Mohayiddin**  
Chairman  
Oil, Gas and Mining Technical Division

- REPLY SLIP -

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### TECHNICAL VISIT TO CENTRE OF ENHANCED OIL RECOVERY AND CO2 MANAGEMENT CENTRE OF UTP

I wish to participate in the above visit on **23<sup>rd</sup> October 2014**. I enclosed herewith a cheque No.....for the amount of RM..... as my commitment fee for the visit.

Name : ..... Membership : .....Grade:.....  
Company:..... Designation : .....  
Contact Number : ..... IC Number : .....  
Address:.....

I will be participating in the visit at my own risk and hereby indemnify fully the IEM from all claims arising from any injury, damage or loss that may be sustained by me.

.....  
Date Signature