



TALK ON
“HEAT EXCHANGERS DESIGN, INSPECTION AND MAINTENANCE”

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

BEM Approved CPD/PDP: 2 Hours

Ref No: IEM16/HQ/308/T

Date : **29 August 2016 2016 (Monday)**
Time : **5.30 pm to 7.30 pm** (Refreshments will be served at 5.00pm)
Venue : **Tan Sri Prof. Chin Fung Kee Auditorium, 3rd Floor, Wisma IEM, Petaling Jaya**
Speaker : **Ir. Alzakri Bin Ekhwan**

SYNOPSIS

Heat Exchangers are widely used in the industry especially in Oil & Gas. There are various types of heat exchangers which are selected based on specific intended process requirement.

The talk will provide an overview on types of heat exchangers commonly used in Oil & Gas industry based on the Codes & Standards used during the design. Common types will be the Shell & Tube Heat Exchangers, Air Cooled Heat Exchangers, Double Pipe Heat Exchangers and Plate Heat Exchangers. This will be followed by the sample fabrication processes which touch on the common welding processes such as GTAW, SMAW, SAW and main forming processes such as plate rolling and tube bending.

Common failures in heat exchangers such as tube leaks, tube fouling etc and typical maintenance work such as High Pressure Water Jet Cleaning (HPWJ), tube plugging, tube rolling etc will be shared based on personal hands on experience. This will be followed by type of Non Destructive Tests (NDTs) and Inspection carried out during fabrication and maintenance repair.

BIODATA OFSPEAKER

Ir Alzakri Ekhwan is a Custodian Engineer for Static Equipment based in PETRONAS Group Technical Solutions and has more than 23 years of experience in maintenance, design, fabrication, inspection and construction of Static Equipment in Oil and Gas industry. Previously, he was the Principal Engineer, Field Engineering Manager for MG3 Lube Base Oil (MG3) Project and Hydrogen Processing Unit 2 (HPU-2) Project and Senior Inspection Engineer of PETRONAS Penapisan (Melaka) Sdn Bhd . He was also the Head of Mechanical Section of PETRONAS Methanol (Labuan) Sdn Bhd.

He graduated from University of Bath, UK in Mechanical Engineering in 1993. He is a certified API 653 Storage Tank Inspector, API 510 Pressure Vessel Inspector and First Grade Steam Engineer registered with DOSH Malaysia. He is registered as ASEAN Chartered Professional Engineer (ACPE) and appointed as Industry Advisor Panel for Faculty of Engineering, Lim Kok Wing University, Faculty of Mechanical Engineering, Universiti Teknologi PETRONAS (UTP) and Faculty of Mechanical Engineering, Universiti Teknikal Malaysia Melaka (UTeM). He is appointed as External Evaluators for Yayasan Universiti Teknologi PETRONAS-Fundamental Research Grant (YUTP-FRG).He is also an Adjunct Lecturer and Final Year Project Examiner for Universiti Teknologi PETRONAS (UTP).

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.

PERSONAL DATA PROTECTION ACT

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CPD/PDP HOURS CONFIRMATION

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Membership No:

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