



# THE INSTITUTION OF ENGINEERS, MALAYSIA

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## Talk On “Onshore Pipeline Engineering And Mechanical Integrity”

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

BEM Approved CPD/PDP Hours: 2 Ref No: IEM12/HQ/170/T

Date : **12 July 2012 (Thursday)**  
Time : **5.30pm – 7.30pm** (Refreshment will be served at 5.00pm)  
Venue : **TUS and C & S Lecture Room ,  
2<sup>nd</sup> Floor Wisma IEM, Petaling Jaya**  
Speaker: **Ir. Mohd Nasahie Akbar Ali**

### SYNOPSIS

Pipeline is the widely-used medium of transportation for liquid or gas from a supplier to its customer over a considerable distance. It is generally selected due to its reliability and cost benefits. There are various types of pipelines used and these are selected based on their specific intended requirements. The professionals involved in designing, operating and maintaining these pipelines are generally referred to Pipeline Engineers.

Pipeline Engineering requires multi-discipline engineering skills which involve many subject matters learned during an individual's years in college. However, not many have the opportunity to apply the knowledge into Pipeline Engineering, especially applying the importance of mechanical stress-strain design, which is the essential item in pipeline system integrity.

The speaker will discuss several important considerations specifically for pipeline design. This includes the standards and guidelines, sizing, wall thickness selection and verification, material grade selection, buoyancy control. Several pipeline failure cases will also be shared to show the consequences when design integrity is compromised.

### BIODATA OF SPEAKER

Ir. Mohd Nasahie Akbar Ali is a Manager for Pipeline Engineering Group at PETRONAS Gas Bhd.(PGB), a public-listed gas and utilities company that processes, transports and handles an estimated of 2200 mmscf/d (million standard cubic feet per day) of gas for the power producers and other industries in Malaysia.

He graduated with a degree in Mechanical Engineering from University of Manchester Institute of Science and Technology (UMIST), UK in 1999. He has more than 13 years of experience in the design, fabrication, maintenance, inspection and construction of pipeline system in the oil and gas industry.

Prior to his current position, he was with the Mechanical Design Team and Inspection Team of PGB's Gas Processing Plant in Terengganu. Ir. Mohd Nasahie is also a certified Second Grade Steam Engineer registered with DOSH, Malaysia and also has certificates in American Petroleum Institute (API) 570 Inspection and auditing works.

### **ANNOUNCEMENTS TO NOTE:**

1. Talk is **STRICTLY** for IEM members only (pre-registration is **NOT** required)
2. Telephone and/or fax reservation will **NOT** be entertained
3. Limited seats available on a "first come first served" basis (maximum 110 participants).
4. IEM members are required to produce their membership cards for confirmation of attendance (CPD purpose).
5. 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 RM20.00.*

### **FUNDS FOR IEM BUILDING FUND (WISMA IEM)**

- Kindly be informed that IEM will be charging participants RM10.00 administrative fee for talks organized by IEM.
- The fee would be used for overhead costs, building maintenance expenses as well as to support the purchase of the new building.
- All contributions will be deeply appreciated by IEM
- Students are however exempted.

Your understanding is greatly appreciated.

### **CPD HOURS CONFIRMATION**

Name: .....

Membership No: .....

Signature: .....

### **IR. RAZMAHWATA MOHD RAZALLI**

Chairman

Oil, Gas and Mining Technical Division