



THE INSTITUTION OF ENGINEERS, MALAYSIA

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TALK ON

“PIPE STRESS ANALYSIS (STATIC) FOR OFFSHORE PLATFORM PIPING SYSTEM”

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

BEM Approved CPD/PDP: 2 Hours

Ref No: IEM16/HQ/016/T

Date : **17 February 2016 (Wednesday)**
Time : **5.30 pm to 7.30 pm** (Refreshments will be served at 5.00 pm)
Venue : **TUS and C&S Lecture Rooms, 2nd Floor, Wisma IEM, Petaling Jaya**
Speaker : **Ir. Omar Anuar Roslay**

SYNOPSIS

Piping system is an important facility on an offshore platform. The design of the piping system has to consider a lot of factors to ensure that its integrity will last throughout the design life. A Pipe Stress Analysis is required in pipe routing design and is highly interrelated with piping configuration (piping layout) and pipe support design. The design of a piping layout and the pipe supports must satisfy the requirement of pipe stress analysis by providing sufficient flexibility and rigidity for thermal expansion and various load cases imposed on the piping system.

It is important to evaluate the mechanical behaviour of the piping system under various loads as stipulated in codes and standards such as ASME B31.3 (Process Piping) to ensure that the integrity of the piping system is preserved. In the old days, the analysis is usually done manually and is time consuming and tedious. Nowadays, many software applications are available to assist with the analysis. One such program is CAESAR II. The talk will provide an introduction to the process of modelling and analyzing a piping system to prevent failures due to overstress which could lead impact to human life, facility and environment.

BIODATA OF SPEAKER

Ir. Omar Anuar Roslay (PE/MIEM) graduated with a Bachelor of Engineering with Honours (Mechanical) from University Technology of MARA (UiTM).

He started his professional career with Samsung Electronics (M) Sdn. Bhd. as a Development Engineer (Mechanical) specializing in metal stamping and plastic injection. In 2008, he moved into the oil and gas industry as PDMS Design Engineer with RNZ Integrated Sdn. Bhd. (also known as Petrofac Engineering Services Sdn. Bhd.) and currently holds a position as Senior Piping Engineer. He has a total of 7 years of experience in consolidating equipment and safety layout development, piping engineering (material specification), piping layout design (3D modelling) and pipe stress analysis for various stages of design starting from conceptual, front end engineering design (FEED) and detailed design. His current focus is on pipe stress analysis (finite element analysis) for both Brownfield and Greenfield projects in Malaysia, Vietnam, Iran, Qatar and Turkmenistan.

Apart from that, Ir. Omar Anuar is a part-time lecturer attached with CGT Petroleum for Intensive Course and Diploma (in collaboration with UTM) in Process Piping Engineering 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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