



THE INSTITUTION OF ENGINEERS, MALAYSIA

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TALK ON

"EXTERNAL TURRET DESIGN FOR FLOATING STORAGE OFFLOADING/ FLOATING PRODUCTION STORAGE OFFLOADING VESSEL (FPO/FPSO)"

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

BEM Approved CPD/PDP: 2 Hours

Ref No: IEM16/HQ/073/T

Date : 16 March 2016 (Wednesday)
Time : 5.30 pm to 7.30 pm (Refreshments will be served at 5.00 pm)
Venue : Tan Sri Prof. Chin Fung Kee Auditorium, 3rd Floor, Wisma IEM, Petaling Jaya
Speaker : Ir. Saifulbahari Abdul Hamid PEng, MIEM, CMarEng, CEng

SYNOPSIS

Malaysia is emerging as a major deepwater oil and gas production hub. In 2007, a joint venture between MISC Berhad and SBM Offshore represented by its joint venture company MDFT Sdn Bhd successfully installed its first Malaysian deepwater FPSO offshore Sabah. The FPSO is moored with an external turret anchored in 1300 meters water depth. The external turret is currently holding the world record as the largest and heaviest external turret in the world.

This presentation will cover the engineering aspects of an external turret system. The external turret system is attached to the hull of the tanker and allows the tanker to freely weathervane and thereby takes up the least resistance to the combined forces of wind, waves and current. The external turret mooring system is composed of a stationary turret part connected to the external vessel's structure via a roller type bearing. The turret part is secured to the seabed by catenary or (semi) taught mooring legs to provide sufficient restoring forces to keep the vessel within a design excursion limit. This excursion limit ensures the safe working of the underwater fluid transfer riser system from the seafloor to the turret.

BIODATA OF SPEAKER

Ir. Saifulbahari has more than 15 years of experience in design and project experience in oil and gas, in particular with floating structures (e.g. FPSO, FSO, CALM buoy, Semi).

He started his career in oil & gas as a Mechanical Engineer at Ranhill Worley. In 2002, he has been selected to be part of Project Management Consultant (PMC) to deliver MISC 1st FPSO Bunga Kertas. Subsequently, he also involved in successfully delivering MISC 1st FSO project, FSO Angsi that was completed within 15 months to first oil. His breakthrough in hydrodynamic and mooring design expertise when he worked for 4 years with INTECSEA Perth office and later with SBM Malaysia.

Currently, he is a Senior Manager of Hull & Mooring in OBU of MISC Bhd. He is heading team of 15 engineers consist of Naval Architectural, Structural and Hydrodynamic and Mooring engineers.

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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