

# Technical Talk on “Installation of Topsides Structure by Float-Over Methodology”

(organised by Marine Engineering and Naval Architecture Technical Division, IEM)

**BEM Approved CPD/PDP Hours: Applying**

**Date** : 17th November 2018 (Saturday)  
**Time** : 9.00am – 11.00am (Refreshments will be served at 10.30am)  
**Venue** : Malakoff Auditorium, Ground Floor, Wisma IEM, PJ  
**Speaker** : Ir. Dr. Rafee Makbol Mohamed Ali, Ir. Muhamad Ismail and  
Dato' Sri Ir. Affiq Aiman Bin Aminuddin

## SYNOPSIS

Installation of Topsides Structure by Float-over methodology is modus of operandi whereby Topsides on sea transportation barge upon reaching the offshore site is in placed/mated with the awaiting Jacket structure. The barge is water ballasted to reduce the freeboard in order to lower Topsides onto Jacket supports while at the same moment series of mooring lines and fenders are active to guide the barge while entering the slot between the supports. The methodology allows Topsides to be fabricated with many equipment ready for commissioning that not only reduces offshore hook-up work and standby time but also removes the need for heavy lift barge and its limitation. Therefore, it significantly reduces offshore installation cost.

## SPEAKERS' BIODATA

**Ir. Dr Rafee Makbol Mohamed Ali** is a Structural Engineer with over 29 years of experience in fabrication, design, installation and certification of offshore installations. He started his career working in fabrication then had joined several design Consultants in Kuala Lumpur prior to pursuing PhD in Structures at Imperial College London. He then joined Atkins (UK) as Lead Engineer for wind farm substations and metrological platforms. Left UK to joint Lloyd's Register KL as Team Leader/Structural Specialist. At present he is with Aker Solutions as Lead Structural Engineer.

**Ir. Muhamad Ismail** studied in Marine Engineering (Mechanical) at UTM has 12 years of experience in the oil & gas industry specifically in naval architectural engineering. He has extensive experience in performing FEED and detail design that relate to float-over analysis, mooring design and hydrodynamic effect. He started his career as Naval Architect with Technip (KL) and had involved in many offshore installations projects that related to float-over methodology. Presently with Aker Solutions as Senior Naval Architect.

**Dato' Sri Ir. Affiq Aiman Bin Aminuddin** studied in Marine Engineering (Mechanical) at UTM has 11 years of experience in the oil & gas industry with experience ranging from FEED, bid preparation, detail design, fabrication, commissioning and site operation both domestic and international projects. Started careers as Naval Architect with Boustead Heavy Industries; involved in preparing technical specification and navy vessel construction. Later, joined Sime Darby Engineering as Project Engineer for the construction of derrick lay barge and anchor handling tugs, then joined ALE Heavy Lift as Naval Architect and specialist for marine operations in load-out and float-off. Presently with Aker Solutions as Naval Architect.

**Ir. Roznan Abdul Rashid**

**Chairman**

**Marine Engineering & Naval Architecture Technical Division**

## FEE ANNOUNCEMENT

(Effective: 1<sup>st</sup> October 2017)

### Members:

- (i) Registration Fee: No Charge
- (ii) Administrative Fee:
  - (a) Online RM15
  - (b) Walk-In RM20

### Non-Members:

- (i) Registration Fee: RM50
- (ii) Administrative Fee: RM20

- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- To secure your seat, kindly register online at [www.myiem.org.my](http://www.myiem.org.my)

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### CPD Hours Validation:

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