



# The Institution of Engineers, Malaysia

Bangunan Ingenieur, Lots 60/62, Jalan 52/4, Peti Surat 223, 46720 Petaling Jaya, Selangor Darul Ehsan

Tel: 03-79684001/2 Fax: 03-79577678 E-mail: [sec@iem.org.my](mailto:sec@iem.org.my) IEM Homepage: <http://www.myiem.org.my>

## Talk on Techno Express

Organized by Women Engineers Sections, IEM  
BEM Approved CPD/PDP Hours: NO CPD

Date : 13 July 2016  
Time : 5.30pm to 7.30pm (Refreshment will be served at 5.00pm)  
Venue : C&S and TUS Lecture Room, 2<sup>nd</sup> Floor Wisma IEM, Petaling Jaya  
Speakers : **Ms. Kamila Ab Hamid Grad. IEM, Ms. Rohana Mamat Grad. IEM, Ms. Azreennisa Binti Abdul Haleem and Ir. Jeyanthi Ramasamy**

### Synopsis

#### Corrosion Management Framework (CMF) for Topside Assets (oil and gas industry) - Kamila Ab Hamid

How do we manage the integrity of the asset in the oil and industry particularly degradation that involve corrosion matters? This talk gives an insight into the initiatives taken to the creation and application of Corrosion Management Framework (CMF) which is believed have an impact on the safe operation of the asset in oil and gas industry.

#### Optimisation of Biomass Supply Chain Management Using P-Graph Application in FELDA Jenaka -

##### Azreennisa Binti Abdul Haleem

Biomass is one of the alternative sources of energy which has a promising future to complement or replace fossil fuels. However, the main barrier in utilisation of biomass for energy production is the cost associated with biomass supply chain management. Biomass supply chain management involves process of planting, harvesting, storing, transporting and processing. The focus of this research is to solve the combinatorial complexity of biomass supply chain in FELDA Jenaka using a mathematical framework, P-graph.

#### Fibrous Expanded Polystyrene Lightweight Concrete Wall Panel – Rohana Mamat

This study used steel fibre as fibrous expanded polystyrene lightweight concrete to enhance its strength. In line with architectural demand and ventilation requirement, opening within wall panel was also taken into account. Experimental tests were conducted for actual size of solid wall panel, reinforced and unreinforced Expanded Polystyrene Lightweight Concrete wall panel. The loading capacity, displacement profiles and crack pattern of each sample was analyzed and discussed. Fibrous Expanded Polystyrene Lightweight

#### Asset Integrity framework for subsea project execution phases - Ir. Jeyanthi Ramasamy, MIEM

Traditional petroleum topside facilities have common access from topside. Unlike topside facility, a subsea asset has no direct access and very little human interaction for any intervention (repair). Many studies have been carried on asset integrity during operation phase or life extension project after project team handed over the asset to operation team. However, very little emphasis and study has been done on asset integrity during project stage in particular to subsea development which requires higher diligent.

### About The Speakers

**Kamila Ab Hamid** has more than 6 years of experience in oil and gas industry particularly in the area of Asset Integrity mainly on corrosion analysis, materials selection, Risk Based Inspection (RBI), Fitness For Service (FFS). Graduated from International Islamic University Malaysia (IIUM) in 2010 with Bachelor of Engineering (Material) (Honours). Active participation with Professional Bodies such as National Association of Corrosion Engineer (NACE), Institute of Materials Malaysia (IMM), Society of Petroleum Engineer (SPE) with main contribution as Technical Committee (NACE, IMM).

**Azreennisa Binti Abdul Haleem** graduated from Universiti Teknologi PETRONAS in 2016, currently working as Process Engineer with Citech Energy Recovery Systems Malaysia Sdn Bhd, subsidiary company of Muhibbah Engineering (M) Bhd. She has actively participated in IEM including National Chem-E-Car Challenge and IEM Plant Design Competition. She has publications in Chemical Engineering Transaction (CET) on biomass supply chain management during her internship in University of Pannonia, Hungary.

**Rohana Mamat** received the Master of Science in Civil Engineering (Structure), 2014, UiTM Shah Alam and Bachelor of Engineering in Civil Engineering, 2008, UiTM Pulau Pinang. With 8 years working experiences, she was previously working in a G7 contractor company before serving UiTM at Facilities Management Office Shah Alam Branch.

**Ir. Jeyanthi Ramasamy** graduated from Universiti Teknologi Malaysia (Petroleum Engineering) in 2006 and obtained a Master of Technology (Petroleum) from the Curtin University of Technology in 2012. She is currently completing her PhD in subsea engineering with Universiti Teknologi Malaysia. In 2006, she started her career as a drilling engineer with Talisman Malaysia Limited and worked in drilling rigs as night drilling supervisor. After few years of drilling and offshore experience, in 2008, Shell offered her career movement to subsea engineering. She was one of fewer Malaysian that trained in deepwater subsea engineering, experience and expertise. She delivered the first Shell Malaysia deepwater project, Gumusut Kakap umbilical package worth USD 250 Million.

**Ir. Dr. LEONG Wai Yie**  
Chairman  
Women Engineers Section, 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](http://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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