



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 IEM Homepage: <http://www.myiem.org.my>

Role of Corrosion Engineer for Sustainable Operation of Asset (Oil and Gas Industry)

Organized by Women Engineers Sections, IEM

BEM Approved CPD/PDP Hours: 2

Ref : IEM16/HQ/451/T

Date: :13TH October 2016 (THURSDAY)
Time: : 5.30pm to 7.30pm (Refreshment will be served at 5.00pm)
Venue : Tan Sir Chin Fung Kee Auditorium, 3rd Floor Wisma IEM, Petaling Jaya
Speakers : Ir. Jeyanthi Ramasamy

Synopsis

Corrosion Engineer plays a vital role which responsible for asset integrity of the entire system through effective corrosion management. One year study led by Ms Elaine Bowman, 2016 (Past President for NACE International) as reported in National Association of Corrosion Engineers (NACE), International Measures of Prevention, Application and Economics of Corrosion Technology (IMPACT) Study indicate that global cost of corrosion estimated about US\$2.5 trillion which is equivalent to 3.4 % of the global Gross Domestic Product (GDP). On the other hand, savings of cost of corrosion (between US\$375 and \$875 billion annually) to be achieved through application of effective Corrosion Management System (CMS) or Corrosion Management Framework (CMF).

Harsh environmental conditions impose on assets (topsides and pipelines) which eventually lead to degradation of materials via process called as 'CORROSION'. Degradation of overall assets in oil and gas industry mainly refer to the corrosion process due to affecting parameters such as materials, environment, pressure, temperature, etc which eventually lead to different credible type of corrosion

Therefore, it is the accountability of a corrosion engineer for determining the absolute suitable type of corrosion mitigation for the entire asset (topside and pipeline).

This seminar gives an overview on generic corrosion threats found in assets (topside and pipeline) (oil and gas industry) which is found to be one of the important or critical factor in managing the overall assets. Corrosion Loop associated for different process system will be presented.

Finally, it is believed that application of CMF tool for oil and gas industry particularly for topside assets and pipelines with objectives of achieving efficient corrosion management deliverables will eventually lead to cost effectiveness and safe operation (in line with the mission of NACE which is to protect people, assets and the environment from corrosion) of the entire assets (topside platforms and pipelines).

Some case studies and lesson learned will be shared.

About The Speakers

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. She was one of few Malaysians that trained in deepwater subsea engineering and has gained expertise in that arena. As Subsea Lead Engineer, Jeyanthi helped to deliver the first Shell Malaysia deepwater project, Gumusut Kakap umbilical package from design, through manufacturing, to testing, transportation, installation, pre-commissioning and commissioning. She also managed subsea engineering work inclusive of deepwater Christmas Trees, manifold, jumpers, subsea decommissioning, subsea front end engineering development, vessel installation activities, contract and procurement, umbilical category management and overall project management. Jeyanthi has continued her post-graduate studies (Master and PhD) without a career break. She is happily married and has a beautiful daughter. Early this year she joined Oceaneering International as Technical Solutions Manager.

Ir. Dr. LEONG Wai Yie
Chairman
Women Engineers Section, IEM

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- 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).
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- 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.**

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- All contributions will be deeply appreciated by IEM.
- Student Members are however exempted.

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